

**Thursday, July 29, 2010**  
**POSTER SESSION: MARS: PETROLOGY AND GEOCHEMISTRY**  
**FROM METEORITES, PLANNING FOR SAMPLE RETURN**  
**6:30 p.m. Forum**

Karner J. M. Harvey R. P. Alpert S.

[\*Are Martian Meteorites RBT 04261 and RBT 04262 Really Paired? A Petrologic and Geochemical Study\*](#) [#5354]

Lorenz C. A. Ivanova M. A. Teplyakova S. N. Korochantsev A. V. Franchi I. A. Ott U.

[\*Basaltic Shergottite, Jiddat Al Harasis 479\*](#) [#5228]

Righter K. Danielson L. R. Martin A. M. Sutton S. Newville M. Choi Y.

[\*Iron Redox Systematics of Shergottites and Martian Magmas\*](#) [#5339]

Hoffmann V. H. Funaki M. Torii M.

[\*Comparing the Magnetic Signature of NWA 5789 and Yamato 980459 Olivine Phyric Shergottites\*](#) [#5338]

Viriden B. T. Kral T. A.

[\*Methanogen Use of Insoluble Carbonates and the Implications for Life on Mars\*](#) [#5029]

Walton E. L. Herd C. D. K.

[\*Shock Melt Products in Olivine-Phyric Shergottite Dar al Gani 1037\*](#) [#5065]

Kayama M. Nishido H. Sekine T. Nakazato T. Gucsik A. Ninagawa K.

[\*Cathodoluminescence Spectroscopy for Quantitative Estimation of Shock Pressure on Alkali Feldspar in Martian Meteorites\*](#) [#5188]

Koizumi E. Mikouchi T. Monkawa A. Kurihara T. Miyamoto M.

[\*Spectral Map Analysis of Brown Olivine in Martian Meteorites by Micro FT/IR\*](#) [#5214]

Stephen N. R. Benedix G. K. Bland P. A. Hamilton V. E. Mariani E. Prior D. J.

[\*Preferred Orientation Relationships of Olivine and Pyroxene in the Shergottite Martian Meteorites\*](#) [#5008]

Simionovici A. S. Beck P. Lemelle L. Ferroir T. Westphal A. Vincze L. Schoonjans T. Solé V. A.

Tucoulou R. Fihman F. Viso M. Chazalnoël P.

[\*Non-Destructive X-Ray, Raman and IR Imaging of Quarantined Mars Return Samples\*](#) [#5147]

Smith C. L. Guest M. C. R. Vrubleviskis J. B. Bennett A. M. Roberts M. S. Walker J. T.

Baker R. C. E. Grant C. A.

[\*Mars Sample Return — A Requirements Study for a Sample Receiving Facility\*](#) [#5219]