

**Thursday, August 16, 2012**  
**POSTER SESSION II:**  
**TISSINT: THE LAST PICRITIC SHERGOTTITE FALL IN MOROCCO**  
**6:30 p.m. Mezzanine Foyer**

Hsu W. Wu Y. Jiang Y.

[\*Petrology and Mineralogy of the Tissint Olivine-Phyric Shergottite\*](#) [#5080]

We report petrology and mineralogy of the Tissint olivine-phyric shergottite.

Britt D. T. Macke R. J. S.J. Kiefer W. S. Irving A. J. Hupé G. Consolmagno G. J. S.J.

[\*The Density, Porosity, and Magnetic Susceptibility of Two Recent Meteorite Falls: Tissint and Sutter's Mill\*](#) [#5350]

We report the physical properties of two recent falls. Tissint: bulk density  $2.99 \pm 0.05$  g/cm<sup>3</sup>, grain density  $3.39 \pm 0.01$  g/cm<sup>3</sup>, porosity  $11.6 \pm 1.4\%$ ; Sutter's Mill: bulk density  $2.31 \pm 0.04$  g/cm<sup>3</sup>, grain density  $3.34 \pm 0.02$  g/cm<sup>3</sup>, porosity  $31.0 \pm 1.4\%$ .

Moyano-Camero C. E. Chennaoui Aoudjehane H. Trigo-Rodríguez J. M. Mestres N.

[\*Raman Characterization of Minerals in the Recently Fallen Tissint Shergottite\*](#) [#5058]

We have selected several points in a thin section of Tissint in order to characterize the main minerals forming this meteorite through Raman spectroscopy, and particularly search for shocked minerals.

Schmitt-Kopplin Ph. Harir M. Hertkorn N. Chennaoui Aoudjehane H. Fernandes-Remolar D. C.

Hinman N. Gabelica Z.

[\*High Chemical Diversity of Solvent Soluble Polar Fractions of the Tissint Shergottite\*](#) [#5356]

Here we report on the chemical diversity of the polar fraction in the methanol extracts of different Tissint sample fractions (crust, bulk, olivine macrocrists, vitrifications) using high field ultrahigh-resolution mass spectrometry.