Thursday, August 16, 2012
POSTER SESSION II:
SUTTER'S MILL: NEW CARBONACEOUS CHONDRITE FALL
6:30 p.m. Mezzanine Foyer

Fries M. D. Matson R. Schaefer J. Fries J. A.
Using Weather Radar Data for Rapid Meteorite Recovery: The "Sutter's Mill" Meteorite Fall **[#5388]**
Weather radar data can rapidly reveal the locations of meteorite falls. We present radar data on the "Sutter's Mill" meteorite fall that facilitated its rapid recovery.

Friedrich J. M. Ebel D. S. Jenniskens P.
Elemental Composition and Chemical Classification of Sutter's Mill Chondrites **[#5301]**
The elemental composition of the SM2 fragment of Sutter's Mill is consistent with a CM chondrite. Based on the content of thermally labile elements, our fragment of SM2 did not experience heating over ~500°C.

Schmitt-Kopplin Ph. Harir M. Hertkorn N. Jenniskens P. Gabelica Z.
Unusual Chemical Diversity of Solvent Soluble Polar Fraction of the Sutter's Mill Carbonaceous Chondrite **[#5359]**
Here we report on the chemical diversity of the polar fraction in the methanol extracts of two selected Sutter's Mill organic chondrite samples using high field ultrahigh-resolution mass spectrometry.

Glavin D. P. Burton A. S. Elsila J. E. Dworkin J. P. Yin Q.-Z. Cooper G. Jenniskens P.
The Amino Acid Composition of the Sutter's Mill Carbonaceous Chondrite **[#5237]**
We analyzed the amino acid composition of a fragment of the Sutter's Mill meteorite (SM2) using liquid chromatography time of flight mass spectrometry. In contrast to other CM meteorites, only trace levels of amino acids were detected in SM2.