

Thursday, March 21, 2013

[R714]

POSTER SESSION: COMETS AND ICY SMALL BODIES

6:00 p.m. Town Center Exhibit Area

Milam S. N. Charnley S. B. Gicquel A. Cordiner M. Kuan Y. J. et al. *POSTER LOCATION #145*
[Multiwavelength Observations of Recent Comets](#) [#2963]

Recent results of multiwavelength observations toward recent comets C/2009 P1 (Garradd), C/2012 S1 (ISON), C/2012 F6 (Lemmon), and C/2011 L4 (PanSTARRS).

Raponi A. Ciarniello M. Filacchione G. Capaccioni F. Farnham T. *POSTER LOCATION #146*
[Spectrophotometric Analysis of Water Ice Regions on the Surface of the Comet 9P/Tempel 1](#) [#1507]

We show properties of exposed water ice on the surface of the Comet Tempel 1 obtained from the observations of the Deep Impact spacecraft on 4 July 2005.

Steckloff J. K. Melosh H. J. *POSTER LOCATION #147*
[The Dynamics of Grain Splitting in Cometary Jets](#) [#2903]

We model grain splitting in cometary jets and its implications for the opacities within the observed jets of Comet Tempel 1.

Cordiner M. A. Charnley S. B. *POSTER LOCATION #148*
[Models for Cometary Comae Containing Negative Ions](#) [#2729]

We present details of a new chemical-hydrodynamic model for cometary comae that includes — for the first time — atomic and molecular negative ions (anions).

Hilchenbach M. Briois C. Cottin H. Engrand C. Hornung K. et al. *POSTER LOCATION #149*
[Laboratory Secondary Ion Mass Spectra of Cometary Analog Material](#) [#1816]

Secondary ion mass spectrometer (SIMS) COSIMA onboard Rosetta and mass spectra interpretation with statistical methods.

Yokochi R. Marboeuf U. Quirico E. Schmitt B. *POSTER LOCATION #150*
[Pressure-Dependent Trace Gas Trapping in Amorphous Water Ice at 77 K: Implications for Determining Conditions of Comet Formation](#) [#1439]

Trace gas trapping efficiency in amorphous water ice at 77K is gas pressure-dependent, regardless of ice deposition rate and gas/H₂O ratio in the gas phase.

Sarid G. Brunetto R. DeMeo F. E. Kueppers M. *POSTER LOCATION #151*
[The Carbon Did It — Masking Surface Ice Features on Small Distant Bodies](#) [#1181]

We present a model for icy surfaces, which is based on the effective reflectance spectra of subresolution carbonaceous inclusions in the aggregate particle.