

Thursday, March 21, 2013

[R716]

## POSTER SESSION: REMOTE SENSING OF SMALL BODIES

6:00 p.m. Town Center Exhibit Area

Kim M.-J. Choi Y.-J. Moon H.-K. Ishiguro M. Mottola S. et al. *POSTER LOCATION #157*  
[Optical Observations of NEA 162173 \(1999 JU3\) During the 2011–2012](#) [#3068]

Observations of NEA 162173 (1999 JU3) during 2011–2012 is the only chance before the launch of Hayabusa-2. Results are consistent with the previous apparition.

Lucas M. P. Emery J. P. *POSTER LOCATION #158*  
[Surface Mineralogy of Mars-Crossing Asteroid 1747 Wright: Analogous to the H Chondrites](#) [#1813]

Here we present the VISNIR spectrum and detailed surface mineralogy of the Mars-crossing asteroid 1747 Wright, heretofore only recorded in visible wavelengths.

Fieber-Beyer S. K. Gaffey M. J. *POSTER LOCATION #159*  
[Near-Infrared Spectroscopy of 3:1 Kirkwood Gap Asteroids: A Battalion of Basalts](#) [#1352]

3:1 Kirkwood Gap asteroids exhibit absorption features typical of anhydrous mafic silicates and derive from partial melt residues, cumulates, or differentiation.

Masoumzadeh N. Tubiana C. Vincent J. -B. Sierks H. *POSTER LOCATION #160*  
[Photometric Analysis of Asteroid \(21\) Lutetia](#) [#1017]

Images obtained by the OSIRIS cameras onboard ESA's Rosetta spacecraft are adopted to analyze photometry of the asteroid (21) Lutetia using the Hapke model.

Hirabayashi M. Scheeres D. J. Holsapple K. A. *POSTER LOCATION #161*  
[Constraints on the Size of Asteroid 216 Kleopatra Using Internal Stresses](#) [#1592]

The size of Kleopatra is constrained using an internal stress failure analysis. We find that Kleopatra has likely undergone plastic deformation in its past.

Reddy V. Sanchez J. A. Bottke W. F. Gaffey M. J. Le Corre L. et al. *POSTER LOCATION #162*  
[Composition of \(1696\) Nurmela: The Second Largest Member of Baptistina Asteroid Family](#) [#1093]

We show that the two largest members of the Baptistina asteroid family are interlopers and not the source of the K/T impactor that killed the dinosaurs.

Roberts R. V. Gaffey M. J. Fieber-Beyer S. K. *POSTER LOCATION #163*  
[Mineralogical Assessment of two Gefion Family Asteroids: 1433 Geraminta and 4182 Mount Locke](#) [#2713]

We present the analysis of spectra of two core members of the Gefion dynamical family. We are testing this family as the source of the L chondrites.

Izawa M. R. M. Applin D. Mann P. Craig M. A. Cloutis E. A. *POSTER LOCATION #164*  
[Ultraviolet, Visible and Near-Infrared Reflectance Spectroscopy of Highly-Reduced Phases Under Oxygen- and Water-Free Conditions](#) [#1788]

Reflectance spectra (250–2500 nm) of CaS, TiN, CrN, nanophase Fe and nanophase graphite have been collected under anhydrous, oxygen-free conditions.

Cloutis E. A. Hudon P. Hiroi T. Gaffey M. J. Mann P. et al. *POSTER LOCATION #165*  
[Possible Causes of Blue Slopes \(~0.5–2.5  \$\mu\text{m}\$ \) in Carbonaceous Chondrite Spectra](#) [#1550]

Dark and blue-sloped carbonaceous chondrite spectra may be due to abundant fine-grained magnetite or carbon-rich opaques, heating, or fine-free powders.