

Thursday, March 21, 2013

[R735]

POSTER SESSION: ASTEROID ANALYSIS: MISSIONS AND TOOLS
6:00 p.m. Town Center Exhibit Area

Iwata T. Kitazato K. Abe M. Ohtake M. Matsuura S. et al. **POSTER LOCATION #678**
[Results of the Critical Design for NIRS3: The Near Infrared Spectrometer on Hayabusa-2](#) [#1908]

NIRS3, the Near Infrared Spectrometer is a candidate scientific instrument for the Hayabusa-2 mission. We report the results of the critical design.

Jaumann R. Bibring J.-P. Glassmeier K.-H. Grott M. Ho T.-M. et al. **POSTER LOCATION #679**
[A Mobile Asteroid Surface Scout \(MASCOT\) for the Hayabusa 2 Mission to 1999 JU3: The Scientific Approach](#) [#1500]

Mascot, a Mobile Asteroid Surface Scout, will support JAXA's Hayabusa 2 mission to investigate in situ the C-type asteroid 1999 JU3.

Scheld D. L. Hayden J. L. Dryer C. **POSTER LOCATION #680**
[Charming Asteroids and Comets — The Hummingbirds/Charm \(HC\) Asteroid/Comet Engineering Science Service \(ACCESS\) Missions](#) [#2093]

A concept is described for multiple missions that will intercept and "interview" target NEOs/NEAs. A Charm is a gathering of hummingbirds.

Oklay N. Vincent J.-B. Sierks H. **POSTER LOCATION #681**
[Filter Strategy for the Characterization of Minerals with OSIRIS](#) [#2399]

Detection and separation of minerals with OSIRIS. This will allow us to characterize Comet 67P's surface and study composition changes due to its activity.

Shaw A. Daly M. G. Cloutis E. A. Tait K. T. Izawa M. R. M. et al. **POSTER LOCATION #682**
[Laser Return Signature of Analogs to OSIRIS-REx Target Asteroid \(101955\) 1999 RQ36](#) [#1584]

Determining RQ36 composition and texture: creating a reflectance database of terrestrial and meteorite analogs to compare to groundbased and OSIRIS-REx data.

Church C. Fevig R. **POSTER LOCATION #683**
[A Feasibility Study on the Characterization of the Internal Structure of Small Neos with Small Spacecraft](#) [#2999]

This work addresses methods that can be used to characterize the internal structure of small NEOs through in situ measurements using small spacecraft.

Palmer E. E. Sykes M. V. Neese C. L. Davis D. R. **POSTER LOCATION #684**
[Small Bodies Image Browser — A Tool Allowing Simplified Access to the Dawn Mission Data](#) [#2901]

SBIB does searches of images taken by Dawn at Vesta in a graphical and easy way. It allows data downloads in the most common image formats: ISIS, FITS, IMG, PNG.

Levengood S. P. Shepard M. K. Magri C. Nolan M. C. **POSTER LOCATION #685**
[Asteroid Shape Modeling with CUDA](#) [#2299]

We modified the asteroid SHAPE software package to use of GPUs on CUDA platforms for faster shape modeling. We generate a new shape model of (2100) Ra-Shalom.

Doressoundiram A. Roques F. **POSTER LOCATION #686**
[Efficiency of Ground-Based Search for Outer Solar System Small Bodies by Serendipitous Stellar Occultations](#) [#1155]

We propose high-speed photometry from the ground to exploit the occultation method for the exploration of the transneptunian region, with a high efficiency.