

Tuesday, March 20, 2018
**POSTER SESSION I: MISSIONS TO SMALL BODIES:
 ONGOING AND UPCOMING**
 6:00 p.m. Town Center Exhibit Area

[T343]

- Roberts J. H. Barnouin O. S. Gaskell R. W. Palmer E. E.
 Weirich J. R. et al. **POSTER LOCATION #657**
[Mapping Bennu with Sunlight and Lasers: The SPCOLA Methods](#) [#1150]
 Two instrument suites / Two topographic techniques / Two ways to combine.
- Neumann G. A. Barker M. K. Mazarico E. Barnouin O. S.
 Daly M. G. et al. **POSTER LOCATION #658**
[OSIRIS-REx Laser Altimeter 1064-nm Reflectance Investigation at Bennu](#) [#1676]
 The OSIRIS-REx Laser Altimeter will measure the intensity of laser returns, to produce zero-phase reflectance maps of the asteroid Bennu.
- Donaldson Hanna K. L. Keller L. P. Schrader D. L. McCoy T. J.
 Bowles N. E. et al. **POSTER LOCATION #659**
[Characterization of Amorphous Silicate and Organic Bearing Mixtures in Anticipation of the OSIRIS-REx Arrival at Bennu](#) [#1867]
 We present TEM analyses of amorphous silicate smokes and thermal infrared lab measurements of amorphous silicate and IOM bearing physical mixtures.
- Habib N. Golish D. R. Bennett C. A. DellaGiustina D. N. Laurretta D. S. **POSTER LOCATION #660**
[Examining the Impact of Image Geometries in Generation of Controlled Global Mosaics of Asteroid \(101955\) Bennu](#) [#1270]
 This study evaluates the effects of imaging parameters in generating a controlled global mosaic using feature based matching algorithms.
- Golish D. R. DellaGiustina D. N. Bennett C. A. Le Corre L.
 Becker K. et al. **POSTER LOCATION #661**
[OSIRIS-REx Camera Suite \(OCAMS\) Observations of the Earth and Its Moon During Earth Gravity Assist](#) [#1264]
 We present imaging results from OSIRIS-REx's Earth Gravity Assist maneuver on September 22, 2017, including images and color indices of the Earth and its Moon.
- Ishibashi K. Kameda S. Kagitani M. Yamada M. Okudaira O. et al. **POSTER LOCATION #662**
[Telescopic Camera for Phaethon \(TCAP\) and Multiband Camera for Phaethon \(MCAP\) to be Installed on the DESTINY+ Spacecraft](#) [#2126]
 Conceptual studies of the two cameras, a telescopic camera and a multiband camera, for the DESTINY+ mission, an asteroid flyby mission, have been carried out.
- Masanori M. Srama R. Krüger H. Arai T. Kimura H. **POSTER LOCATION #663**
[DESTINY+ Dust Analyzer](#) [#2050]
 Dust Analyzer will be aboard a spacecraft named DESTINY+. This paper describes the mission goals, the Destiny+ probe, and its instrumentation.
- Van wal S. Tsuda Y. Yoshikawa K. Miura A. Tanaka S. et al. **POSTER LOCATION #664**
[Pre-Arrival Deployment Analysis and Trajectory Reconstruction of Hayabusa2 Rovers](#) [#1400]
 We present the pre-arrival deployment analysis of the MINERVA-II rovers on Hayabusa2 and our plans to estimate asteroid properties from the observed motion.
- Yabuta H. Hirata N. Honda R. Ishihara Y. Kitazato K. et al. **POSTER LOCATION #665**
[Hayabusa2 Landing Site Selection \(LSS\) Training: Summary Report of Scientific Evaluation](#) [#1921]
 Landing site selection training in Hayabusa2 was carried out to find an aqueously altered region for the first touch down of a near Earth asteroid Ryugu.

Senshu H. Sakatani N. Yokota Y. Morota T. *POSTER LOCATION #666*
[Effect of Surface Roughness on the Observation of TIR Onboard Hayabusa2](#) [#2363]
 Apparent temperature depends on the surface roughness. TIR, thermal infrared imager onboard Hayabusa2, might give us information on the surface roughness.

Aoki Y. Demura H. Hirata N. Ichikawa M. Endo T. *POSTER LOCATION #667*
[GUI Retrieval of FOVs in HARMONICS for 2018 Rendezvous of Hayabusa2](#) [#1857]
 This study has developed a visualization tool based on the SPICE toolkit for FOVs of instruments and geometry between the spacecraft and the target asteroid.

Arai T. Tanaka S. Kouyama T. Senshu H. Sakatani N. et al. *POSTER LOCATION #668*
[Thermal Infrared Imager Onboard Hayabusa2 Observes the Thermophysical Properties Under the Surface Layer of the Asteroid Ryugu](#) [#1912]
 This study examines observations of the interior of the asteroid Ryugu with Thermal Infrared Imager onboard Hayabusa2.

Russell C. T. Raymond C. A. Dawn Team *POSTER LOCATION #669*
[The Dawn Revolution](#) [#1272]
 The Dawn mission has revolutionized our understanding of the asteroid belt, each with its own evolutionary path.

Jun I. Lawrence D. J. Peplowski P. N. Elkins-Tanton L. T. Goldsten J. et al. *POSTER LOCATION #670*
[Surface Compositional Information Derived from Simulated High-Energy Gamma Rays for the Psyche Gamma-Ray and Neutron Spectrometer](#) [#2200]
 We briefly describe some results for the High-Energy Gamma Ray (HEGR) portion of simulated gamma-ray spectra for Psyche-like materials.

Fatemi S. Poppe A. R. *POSTER LOCATION #671*
[Solar Wind Plasma Interaction with Asteroid 16 Psyche: Predictions for Observations by the Psyche Mission](#) [#1398]
 We examine the electromagnetic environment of Psyche, showing that a magnetized and a conductive case present different signatures in the solar wind.

Arai T. Kobayashi M. Yamada M. Senshu H. Maeda K. et al. *POSTER LOCATION #672*
[On-Going Status of METEOR Project Onboard the International Space Station](#) [#2525]
 METEOR project onboard ISS started observation in July 2016 and will complete observation in July 2018. On-going status of METEOR is presented.

Palmer E. E. Weirich J. R. Campbell T. Barnouin O. S. Daly M. G. et al. *POSTER LOCATION #673*
[Image Cross Correlation as a Measurement of Shape Model Quality](#) [#1106]
 Shape models can be evaluated using cross correlation between spacecraft images and images generated from the model-highly effective for high resolution models.

Desch S. J. Dunham E. T. Sonnett S. M. *POSTER LOCATION #674*
[Equilibrium Figure of a Rapidly Rotating, Differentiated Haumea](#) [#2347]
 Haumea's shadow / Doesn't mean low density / If rock core, ice shell.