

Tuesday, March 22, 2016

[T314]

POSTER SESSION I: PLANETARY MISSION CONCEPTS: MARS, PHOBOS, AND DEIMOS

6:00 p.m. Town Center Exhibit Area

Horvath A. F. Bérczi Sz. Vizi P. G.

POSTER LOCATION #225

[Nano and Pico Landing Space Probe Swarm to Search the Possibility of Life at the Southern Pole of Mars with an Environmental Friendly Structure](#) [#2570]

Micro mother-ship-like fleet of nano-sized measuring systems make it possible to survey a surface region of a planetary body in one time, landing like a meteor.

De Hon R. A.

POSTER LOCATION #226

[Loess Cave Habitats on Mars](#) [#1144]

Excavation of alcoves on Mars offers an alternative to natural caves. Loess and loess-like materials are easy to excavate and provide stable, interior spaces.

Elphic R. C. Lee P. Zolensky M. E. Mittlefehldt D. W. Lim L. F. et al.

POSTER LOCATION #227

[Neutron Spectroscopy Can Constrain the Composition and Provenance of Phobos and Deimos](#) [#2957]

Neutron spectrometer measurements taken during multiple flybys of Phobos and Deimos can provide significant constraints on surface composition.

Ramsley K. R. Bramble M. S. Cassanelli J. P.

Deutsch A. N. Horan A. M. et al.

POSTER LOCATION #228

[Science Exploration Architecture for Phobos and Deimos: Are the Moons of Mars in the Critical Pathway of Human Exploration of Mars?](#) [#2345]

We provide a mission architecture for exploring Phobos/Deimos to determine their origin and whether they lie in the critical pathway for Mars human exploration.

Acedillo S. M. M. Lee P.

POSTER LOCATION #229

[Human Exploration of Phobos and Deimos: Robotic Precursor Measurements](#) [#2624]

We identify specific robotic precursor measurements required to fill NASA's Strategic Knowledge Gaps for planning future human missions to Phobos and Deimos.