Microsymposium 58

Surface Exploration and Sample Return: A New Era in Planetary Sciences

March 18-19, 2017

Woodlands Waterway Marriott Hotel and Convention Center, 1601 Lake Robbins Drive, The Woodlands, Texas
Montgomery Ballroom A-C

Co-Sponsored by Brown University, the Vernadsky Institute, Space Research Institute (IKI), and the Brown-MIT NASA Solar System Exploration Research Virtual Institute (SSERVI)

Saturday: March 18, 2017
1:00PM — 6:30PM, followed by reception

Introduction: Yvonne Pendleton, SSERVI Central, NASA Ames

Asteroids: Discussion Leader: Nancy Chabot, JHU/APL
1:00 PM: “Overview: Major Outstanding Questions for Asteroid Exploration”, Bill Bottke, SWRI.
2:00 PM: “The OSIRIS REx Sample Return Mission to Asteroid Bennu”, Kevin Righter, NASA JSC.
2:30 PM: “The NASA Asteroid Redirect Mission”, Paul Abell, ARM Deputy Investigator, NASA JSC.
3:00 PM: “Asteroid Surface Impactor Contamination and Implications for Sampling Strategies”, Terik Daly, Brown University.

Mars: Discussion Leader: Maria Zuber, MIT
3:45 PM: Candidate 2020 Landing Sites:
1. “Jezero Crater Candidate 2020 Landing Site”, Tim Goudge, University of Texas, Austin.
4:45 PM: “Future SpaceX Plans for the Exploration of Mars”, Paul Wooster, Spacecraft GNC Manager for SpaceX.

Samples in Hand and Future Curation: Discussion Leader: Sarah Noble, NASA HQ

Reception and Poster Session: 6:30 PM
PRELIMINARY PROGRAM (02-17-17)

Sunday: March 19, 2017
8:30AM – 12:30PM

Phobos/Deimos: Discussion Leader: Ariel Deutsch, Brown University
9:00 AM: “Phobos as a Human Exploration Destination and a Base for Mars Exploration”, NASA Astronaut Mike Gernhardt (STS-69, STS-83, STS-94, STS-104), NASA Johnson Space Center.

China’s Exploration Program for the Moon and Mars: Discussion Leader: James Head, Brown University

The Moon: Discussion Leader: Carle Pieters, Brown University
10:00 AM: “Major Outstanding Questions for the Moon: Implications for Sample Return”, Clive Neal, Notre Dame.
11:00 AM: “The MoonRise Sample Return Mission to the South Pole-Aitken Basin of the Moon”, Brad Jolliff, Washington University, St. Louis.

Adjourn: 12:30 PM

Posters:

“Compositional Analysis of Pyroxenes from Mare Humorum Region of the Moon Using Chandrayaan-I M3 Data”, Mamta Chauhan, Banasthali Vidyapith, India.


"Analysis of Spiders in Inca City, Mars: Spatial Distribution and Types”, Jingyan Hao, Free University, Berlin.

“DLR Planetary Spectroscopy Laboratory and the Planned Upgrade to a Sample Analysis Laboratory”, Jorn Helbert, DLR.


