

Tuesday, March 18, 2014

[T623]

**POSTER SESSION: LUNAR DUST AND EXOSPHERE
FEATURING THE FIRST RESULTS FROM LADEE
6:00 p.m. Town Center Exhibit Area**

Sternovsky Z. Gagnard S. Gathright D. Gruen E. James D. et al. **POSTER LOCATION #312**
[Modeling the UV Signal Scattered into the Lunar Dust Experiment \(LDEX\) from the Surface](#) [#2740]

The LDEX instrument on the LADEE spacecraft is sensitive to the UV scattered back from the lunar surface. The measured UV background contribution is modeled.

Poppe A. R. Halekas J. S. Delory G. T. Angelopoulos V. **POSTER LOCATION #313**
[ARTEMIS Observations of Anisotropic Ion Sputtering of the Lunar Surface: Implications for LADEE](#) [#1385]

We report ARTEMIS observations of anisotropic sputtering of the lunar surface due to both reflected solar wind protons and heavy pickup ions from the exosphere.

Halekas J. S. Poppe A. R. McFadden J. P. **POSTER LOCATION #314**
[Long-Term Trends in the Lunar Exosphere Derived from ARTEMIS Pickup Ion Measurements](#) [#1549]

ARTEMIS measures the ionized constituents of the exosphere, providing a long-term exospheric dataset covering ~2.5 years, including the LADEE mission.

Grava C. Chaufray J.-Y. Retherford K. D. Gladstone G. R. Greathouse T. K. et al. **POSTER LOCATION #315**
[Simulation of Lunar Exospheric Argon: Insights on Loss Processes, Cold-Trapping, and Sudden Release Events](#) [#2889]

We will present results of simulations of argon in the lunar exosphere in order to investigate cold trapping in the permanently shaded regions.

Tenishev V. Rubin M. Shou Y. Combi M. R. **POSTER LOCATION #316**
[Kinetic Modeling of Neutral and Ionized Sodium in the Moon's Exosphere](#) [#1305]

We present first results of our simulation of neutral and ionized sodium in the Moon's exosphere coupled with a global model of the solar wind/Moon interaction.

Hurley D. M. Killen R. M. Colaprete A. **POSTER LOCATION #317**
[Sodium in the LCROSS Plume from Two Views](#) [#2174]

Apply the best fit model for the LCROSS vapor plume to the evolution of Na. Compare the model to Earth-based telescopic observations and overhead SSC data.

Cook J. C. Stern S. A. Feldman P. D. Retherford K. D. Gladstone G. R. et al. **POSTER LOCATION #318**
[Possible Detection of Argon in the Lunar Atmosphere as seen by the LAMP Instrument on the Lunar Reconnaissance Orbiter](#) [#2788]

We will discuss the possible detection of Ar as observed by LRO's LAMP instrument.

Cudnik B. M. Day B. H. **POSTER LOCATION #319**
[Ground Based Observations of Lunar Meteors in Support of the LADEE Mission: A Status Update](#) [#2645]

We update the current state of a groundbased observing campaign to videotape impact flashes to correlate them with changes in lunar exospheric dust abundances.

Huber L. F. Neakrase L. D. V. Rees S. K. Jasek J. Gonzalez E. et al. **POSTER LOCATION #320**
[LADEE PDS Archive: Active Mission Pipeline Development Using PDS4](#) [#2460]

LADEE will archive in the PDS using the new PDS4 standards. PDS and LADEE instrument teams are developing pipelines to meet the new standards.