

**Thursday, March 22, 2018**  
**POSTER SESSION II: LUNAR MISSION DATA**  
**6:00 p.m. Town Center Exhibit Area**

[R619]

Keller J. W. Petro N. E. **POSTER LOCATION #313**  
[\*The Cornerstone Mission: A Third Extension of the Lunar Reconnaissance Orbiter Mission\*](#) [#2048]

This poster will provide an update to the Lunar Reconnaissance Orbiter Mission and highlight recent results from the mission.

Goossens S. Mazarico E. Gaddis L. Archinal B. Hare T. et al. **POSTER LOCATION #314**  
[\*Improving the Geometry of Kaguya Extended Mission Data Through Refined Orbit Solutions\*](#) [#1645]

We improve the geometry of the Kaguya extended mission data by redetermining the satellite orbits.

Mazarico E. Barker M. K. Neumann G. A. Jha K. Torrence M. H. et al. **POSTER LOCATION #315**  
[\*Science Products of the Lunar Orbiter Laser Altimeter\*](#) [#2161]

We describe the variety of products from the Lunar Orbiter Laser Altimeter (LOLA) onboard LRO archived at NASA PDS.

Retherford K. D. Greathouse T. K. Byron B. Magana L. O. Davis M. W. et al. **POSTER LOCATION #316**  
[\*LRO Lyman Alpha Mapping Project's \(LAMP\) Improved Dayside Observing Mode\*](#) [#2822]

LRO LAMP changed its operating mode to enable improved dayside lunar far-UV albedo spectra quality, improving the characterization of hydration features.

Liu Y. Retherford R. D. Greathouse T. K. Raut U. Mandt K. E. et al. **POSTER LOCATION #317**  
[\*A Far Ultraviolet Photometric Correction for LRO LAMP\*](#) [#2089]

We discuss the far ultraviolet (FUV) wavelength dependence of the lunar phase curves as seen by the LAMP instrument and report the derived Hapke parameters.

Livengood T. A. Chin G. Mitrofanov I. G. Boynton W. V. Hamara D. et al. **POSTER LOCATION #318**  
[\*Lunar Thermal Neutron Emission Mapped by the LRO/LEND Doppler Detectors\*](#) [#2848]

Thermal neutron flux / Spreads slowly into near space / Smells of surface Fe.

McClanahan T. P. Mitrofanov I. G. Boynton W. V. Chin G. Starr R. D. et al. **POSTER LOCATION #319**  
[\*Recalibrated South Polar Observations from the Lunar Exploration Neutron Detector Onboard the Lunar Reconnaissance Orbiter\*](#) [#2339]

We review south polar maps from the recalibration of the epithermal neutron detectors from the Lunar Exploration Neutron Detector onboard LRO.

Parsons A. M. McClanahan T. P. Mitrofanov I. Boynton W. V. Chin G. et al. **POSTER LOCATION #320**  
[\*Studies of Recalibrated Observations from the Lunar Reconnaissance Orbiter's Lunar Exploration Neutron Detector\*](#) [#1987]

We will use a newly recalibrated lunar dataset from the LRO/LEND instrument for a variety of studies of the behavior of sequestered lunar volatiles.

Su J. J. Sagdeev R. Boynton W. V. Chin G. Livengood T. A. et al. **POSTER LOCATION #321**  
[\*On-Orbit Calibration of Lunar Exploration Neutron Detectors On Board Lunar Reconnaissance Orbiter and Characterization of GCR Particle, Secondary Particle, and Lunar Neutron Components\*](#) [#2072]

Characterizing the contribution of the GCR, lunar neutrons, and secondary particles components to the observational data to calibrate CSETN and SETN.

Wilson J. T. Lawrence D. J. Peplowski P. N. Eke V. R.  
Massey R. J. et al.

**POSTER LOCATION #322**

[Improved Resolution Lunar Prospector Neutron and Gamma-Ray Data](#) [#2103]

The utility of the Lunar Prospector Gamma-Ray and Neutron data sets has been improved using pixon image reconstruction to suppress noise and increase resolution.

Han K. Y. Ding X. Z.

**POSTER LOCATION #323**

[Research of Geological Evolution of Sinus Iridum Area of the Moon Based on the Chang'e-1 Data of China](#) [#1214]

Geological evolution of Sinus Iridum area of the Moon based on the Chang'e-1 data of China.

Blewett D. T. Zheng Y.-C. Chan K. L. Hu G. P. Neish C. et al.

**POSTER LOCATION #324**

[Chang'e-2 Microwave Brightness Temperature Maps of the Moon](#) [#1228]

CE-2 microwave radiometer sensed emissions at 10, 3.8, 1.5, and 0.8 cm. We note thermal anomalies in high- vs. low-Ti maria, Orientale Basin, and fresh craters.

Zhang J. Li B. Ling Z. C.

**POSTER LOCATION #325**

[Photometric Models for Correcting Chang'e-3 VNIS Data](#) [#2895]

We presented Hapke modeling with multi-angle measurements of the Apollo soils in laboratory, and apply it to photometric correction of the Chang'e-3 VNIS data.

Li S. Lucey P. G. Pieters C. Gaddis L.

**POSTER LOCATION #326**

[Assessing Possible Artifacts of  \$M^3\$  Global Mode Reflectance Data](#) [#1260]

We apply the  $M^3$  target mode and SP data to assess possible artifacts of the  $M^3$  global mode reflectance data.