Monday, March 1, 2010

SPECIAL SESSION: A NEW MOON: LUNAR RECONNAISSANCE ORBITER RESULTS
8:30 a.m. Waterway Ballroom 6

Chairs: Jeff Plescia
       Mike Wargo

8:30 a.m. Vondrak R. * Keller J. Chin G. Garvin J.
The Lunar Reconnaissance Orbiter at the Midpoint of the Exploration Mission [#1660]
The Lunar Reconnaissance Orbiter (LRO) was launched on June 18, 2009 and arrived at the Moon five
days later. This presentation updates the status and recent results from the LRO Exploration Mission,
as well as the plans for the Science Mission.

8:55 a.m. Spence H. E. * CRaTER Science Team
Lunar Cosmic Ray Albedo Measurements Using the Cosmic Ray Telescope for the Effects of Radiation
on the Lunar Reconnaissance Orbiter [#2659]
CRaTER measurement capabilities provide new insights on the spatial and temporal variability of the
GCR populations and their interactions with the lunar surface.

9:20 a.m. Gladstone G. R. *
Initial Results from the Lyman Alpha Mapping Project (LAMP) Instrument on the Lunar
Reconnaissance Orbiter (LRO) Mission [#2277]
LAMP is a far-ultraviolet (FUV) imaging spectrograph on NASA’s LRO mission. LAMP will map the
Moon at FUV wavelengths, allowing new studies of the microphysical and reflectance properties of the
regolith. Preliminary mapping and LCROSS support results are presented.

9:45 a.m. Mitrofanov I. * Boynton W. Chin G. Golovin D. Evans L. Harshman K. Garvin J. Kozyrev A.
Litvak M. McClanahan T. Malakhov A. Milikh G. Mokrousov M. Nandikotkur G. Nuzhdin I.
Sanin A. Starr R. Sagdeev R. Shevchenko V. Shvetsov V. Tretyakov V. Trombka J.
Varennikov A. Vostrukhin A.
LEND Experiment Onboard LRO: Testing Local Areas with High Concentrations of Hydrogen
at the Lunar Poles [#2250]
The LEND measurements of lunar neutron emission allow us to test local areas with high
concentration of hydrogen at lunar poles and to compare two models of the nature of the
hydrogen reach area.

10:10 a.m. Robinson M. S. * Eliason E. M. Hiesinger H. Jolliff B. L. McEwen A. S. Malin M. C.
Ravine M. A. Thomas P. C. Turtle E. P. Bowman-Cisnero E. LROC Team
Lunar Reconnaissance Orbiter Camera: First Results [#1874]
Overview of LROC data collection to date, with summary of early exploration and science results.

Neish C. Nozette S. Patterson G. W. Robinson M. S. Raney R. K. Thompson T.
Thomson B. J. Ustinov E.
Initial Results from Mini-RF: A Synthetic Aperture Radar on Lunar Reconnaissance Orbiter [#2319]
Mini-RF is a lightweight Synthetic Aperture Radar instrument orbiting the Moon aboard Lunar
Reconnaissance Orbiter. It is acquiring high-quality data in both S and X bands in support of the
LRO mission goals.
LOLA Observations of the Moon [#1993]
The LOLA instrument on LRO has been operating since July 2009 and acquired significant altimetric data of the Moon.

Diviner Lunar Radiometer Experiment: Early Mapping Mission Results [#2267]
Diviner’s growing dataset is revealing the extreme nature of the lunar thermal environment and its diurnal and seasonal variability, as well as aspects of the Moon’s composition and the nature of the lunar polar cold traps.