

Monday, June 13, 2011

**LUNAR POLAR VOLATILES: ENVIRONMENT, DISTRIBUTION, AND BEHAVIOR**  
**8:30 a.m. Lecture Hall**

- Chairs:** Ben Bussey  
 Richard Vondrak
- 8:30 a.m. Bussey D. B. J. \* Spudis P. D.  
[\*A Review of Lunar Polar Illumination Studies Using Clementine, SMART-1, Kaguya and LRO Data\*](#) [#6038]
- 8:45 a.m. Mazarico E. \* Neumann G. A. Smith D. E. Zuber M. T. Torrence M. H.  
[\*Illumination Conditions of the Lunar Poles from Lunar Orbiter Laser Altimeter Data\*](#) [#6007]
- 9:00 a.m. Speyerer E. J. \* Robinson M. S.  
[\*Analysis of Highly Illuminated Zones Near the Lunar Poles\*](#) [#6054]
- 9:15 a.m. Siegler M. A. \* Bills B. G. Paige D. A.  
[\*Lunar Polar Ice and the Obliquity History of the Moon\*](#) [#6045]
- 9:30 a.m. Paige D. A. \* Siegler M. A. Williams J. P. [INVITED TALK]  
[\*Diviner Lunar Radiometer Observations of the North and South Polar Regions of the Moon\*](#) [#6058]
- 9:45 a.m. Colaprete A. \* Heldmann J. Wooden D. H. Mjaseth K. Shirley M. Marshall W. Elphic R. Hermalyn B. Schultz P. [INVITED TALK]  
[\*A Model for the Distribution of Volatiles at the LCROSS Impact Site\*](#) [#6011]
- 10:00 a.m. Lawrence D. J. \* [INVITED TALK]  
[\*Hydrogen on the Moon: A Summary of Lunar Prospector Neutron Measurements of Lunar Hydrogen Concentrations\*](#) [#6027]
- 10:15 a.m. Elphic R. C. \* Teodoro L. F. A. Eke V. R. Paige D. A. Siegler M. A. Colaprete A.  
[\*Implications for the Distribution of Water Ice and Other Volatiles from LCROSS and Lunar Orbital Data\*](#) [#6037]
- 10:30 a.m. Mitrofanov I. \* Litvak M. Sanin A. Golovin D. Boynton W. Chin G. Garvin J. Evans L. Harshman K. Kozyrev A. McClanahan T. Sagdeev R. Shevchenko V. Shvetsov V. Smith D. Starr R. Trombka J. Zuber M. [INVITED TALK]  
[\*LRO LEND Observations of Neutrons as Evidence for Polar Hydrogen\*](#) [#6029]
- 10:45 a.m. McClanahan T. P. \* Mitrofanov I. G. Boynton W. V. Droege G. Garvin J. Chin G. Starr R. D. Evans L. G. Sagdeev R. Milikh G. Smith D. E. Zuber M. T. Neumann G. Sanin A. Malakhov A. Litvak M.  
[\*Insolation Effects on Lunar Hydrogen: Correlated Observations from LEND and LOLA\*](#) [#6022]
- 11:00 a.m. Spudis P. D. \* Bussey D. B. J. Mini-RF Team  
[\*Mini-RF Evidence for Water Ice at the Poles of the Moon\*](#) [#6017]
- 11:15 a.m. Farrell W. M. \* Killen R. M. Vondrak R. R. Hurley D. M. Stubbs T. J. Delory G. T. Halekas J. S. Zimmerman M. I. Dream team L. S. I. [INVITED TALK]  
[\*Space Environmental Erosion of Polar Icy Regolith\*](#) [#6015]
- 11:30 a.m. Hurley D. M. \* Elphic R. C. Vondrak R. R. [INVITED TALK]  
[\*Modeling of Hydrogen Accumulation at the Lunar Poles\*](#) [#6014]