

**Monday, June 13, 2011**  
**VOLATILES ON THE LUNAR SURFACE**  
**1:30 p.m. Lecture Hall**

**Chairs: Penny King**  
**Diane Wooden**

- 1:30 p.m. Clark R. N. Pieters C. M. Green R. O. Boardman J. Petro N. E. \* Buratti B. J. Cheek L. Combe J. P. Dhingra D. Goswami J. N. Head J. W. III Isaacson P. J. Klima R. Kramer G. Livo K. E. Lundeen S. Malaret E. McCord T. B. Mustard J. Nettles J. W. Runyon C. Staid M. Sunshine J. M. Taylor L. A. Thaisen K. Tompkins S. Whitten J. [INVITED TALK]  
[Mapping Water and Hydroxyl on the Moon as Seen by the Moon Mineralogy Mapper \(M<sup>3</sup>\)](#) [#6047]
- 1:50 p.m. Combe J.-Ph. \* McCord T. B. Hayne P. O. Paige D. A.  
[Mapping of Lunar Volatiles: A Challenging Problem](#) [#6043]
- 2:05 p.m. Gladstone G. R. \* Retherford K. D. Stern S. A. Egan A. F. Miles P. F. Versteeg M. H. Slater D. C. Davis M. W. Parker J. Wm. Kaufmann D. E. Greathouse T. K. Steffl A. J. Mukherjee J. Horvath D. Feldman P. D. Hurley D. M. Pryor W. R. Hendrix A. R.  
[LRO-LAMP Measurements of Far-Ultraviolet Albedos in Permanently Shadowed Regions](#) [#6057]
- 2:20 p.m. Bogard D. D. \* [INVITED TALK]  
[How the Moon Makes Water: A Conceptual View](#) [#6003]
- 2:40 p.m. Farrell W. M. \* L.S.I. DREAM Team [INVITED TALK]  
[The Character of the Solar Wind, Surface Interactions, and Water](#) [#6016]
- 3:00 p.m. Keller L. P. \* Noble S. K. Zhang S. Christoffersen R. [INVITED TALK]  
[The Nature of Space Weathering Effects Recorded in Lunar Materials](#) [#6059]
- 3:20 p.m. Ichimura A. S. \* Zent A. P. Quinn R. C. Taylor L. A.  
[Production of OH/OD in Lunar Samples: Proton/Deuteron Bombardment](#) [#6053]
- 3:35 p.m. Schaible M. J. \* Dukes C. A. Mitchell E. H. Baragiola R. A.  
[Formation of OH/H<sub>2</sub>O by 1 keV Proton Irradiation of Apollo 16 Lunar Highland Soil](#) [#6055]
- 3:50 p.m. Baragiola R. A. \* Dukes C. A.  
[On the Simulation of Adsorbed Water on the Moon](#) [#6049]
- 4:05 p.m. Mitchell E. H. \* Schaible M. J. Fulvio D. Dukes C. A. Baragiola R. A.  
[Desorption of Adsorbed Water on the Moon by Photons and Ions](#) [#6048]
- 4:20 p.m. Cooper B. L. \* Smith M. C. Gibson E. K.  
[Thermal Analyses of Apollo Lunar Soils Provide Evidence for Water in Permanently Shadowed Areas](#) [#6056]
- 4:35 p.m. Anand M. \* Carpenter J. ESA Topical Team-ELPM  
[Exploration and Evaluation of Lunar Volatiles as Potential Resource Within the ESA Lunar Lander Context](#) [#6013]