

**Monday, November 7, 2011**  
**BREAKTHROUGHS IN LUNAR SCIENCE AND EXPLORATION**  
**8:30 a.m. Lecture Hall**

*New Science and Exploration Results from Missions, Terrestrial Laboratories, and NLSI Nodes*

**Chairs: Charles Shearer**  
**Bradley Jolliff**

- 8:30 a.m. Shearer C. K. \*  
*Welcome to the LEAG Annual Meeting and LEAG Updates*
- 8:45 a.m. Jolliff B. L. \* Lawrence S. J. Robinson M. S. Scholten F. Hawke B. R. Greenhagen B. T.  
 Glotch T. D. Hiesinger H. van der Bogert C. H.  
[\*Compton-Belkovich Volcanic Complex: Nonmare Volcanism on the Moon's Far Side\*](#) [#2031]
- 9:00 a.m. Dhingra D. \* Pieters C. M.  
[\*Mg-Spinel Rich Lithology at Crater Copernicus\*](#) [#2024]
- 9:15 a.m. Allen C. C. \* Greenhagen B. T. Donaldson Hanna K. L. Paige D. A.  
[\*Analysis of Lunar Pyroclastic Glass Deposit FeO Abundances by LRO Diviner\*](#) [#2022]
- 9:30 a.m. Retherford K. D. \* Gladstone G. R. Stern S. A. Egan A. F. Miles P. F. Parker J. Wm.  
 Kaufmann D. E. Horvath D. G. Greathouse T. K. Versteeg M. H. Steffl A. J. Mukherjee J.  
 Davis M. W. Slater D. C. Bayless A. J. Rojas P. M. Feldman P. D. Hurley D. M.  
 Pryor W. R. Hendrix A. R.  
[\*LRO — Lyman Alpha Mapping Project \(LAMP\) Far-UV Maps of the Lunar Poles\*](#) [#2032]
- 9:45 a.m. Mitrofanov I. \* Litvak M. Sanin A. Malakhov A. Golovin D. Boynton W. Droege G.  
 Chin G. Evans L. Harshman K. Garvin J. Kozyrev A. McClanahan T. Milih G.  
 Mokrousov M. Starr R. Sagdeev R. Shevchenko V. Shvetsov V. Tret'yakov V.  
 Trombka J. Varenikov A. Vostrukhin A.  
[\*Local Spots of Lunar Water-Ice Permafrost in Shadow and in Sunlight, as Seen by LEND/LRO\*](#) [#2015]
- 10:00 a.m. Bussey D. B. J. \* Cahill J. T. S. McGovern J. A. Green A. Spudis P. D.  
[\*Landing Site Selection Based on Polar Illumination Analysis\*](#) [#2029]
- 10:15 a.m. BREAK
- 10:30 a.m. Stopar J. D. \* Denevi B. W. Robinson M. S. Hawke B. R. Lawrence S. J. Koeber S.  
[\*Impact Melt Properties and Characteristics as Observed with the LROC Narrow Angle Cameras\*](#) [#2050]
- 10:45 a.m. Joy K. H. \* Kring D. A. Zolensky M. E. Ross D. K. McKay D. S.  
[\*Projectile Fragments in Ancient Lunar Regolith Breccias: Exploring the Sources and Temporal Record of Lunar Impacts\*](#) [#2036]
- 11:00 a.m. Petro N. E. \*  
[\*Volume of Impact Melt Generated by the Formation of the South Pole-Aitken Basin\*](#) [#2051]
- 11:15 a.m. Harris I. E. \*  
[\*Planetary Dynamics of the Moon's Surface\*](#) [#2003]

- 11:30 a.m. Shearer C. K. \* Sharp Z. D. McCubbin F. Steele A.  
[Chlorine Isotope Composition and Carbon Mineralogy of "Rusty Rock" 66095. Implications for the Petrogenesis of Rusty Rock, Origin of "Rusty" Alteration, and Volatile Element Behavior on the Moon](#) [#2047]
- 11:45 a.m. Zhong S. J. \*  
[A New Hypothesis for Mare Basalt Volcanism, Volatile Distribution in the Lunar Mantle, and Moonquakes](#) [#2009]