

Wednesday, September 15, 2010

**LUNAR VOLATILES AND OPERATING SAFELY ON THE MOON: HOW CAN RECENT
DISCOVERIES DRIVE THE NEXT GENERATION OF ROBOTIC LUNAR MISSIONS?**

8:30 a.m. Columbia Ballroom I

- Chairs:** Ben Bussey
Charles Shearer
- 8:30 a.m. Schultz P. H. * Colaprete A. Hermalyn B. LCROSS Team
[Shooting the Moon: A Review of the LCROSS Results](#) [#3073]
- 8:45 a.m. Mitrofanov I. G. * Litvak M. L. Sanin A. B. Tretyakov V. V. Kozyrev A. S. Malakhov A. B. Mokrousov M. I. Vostrukhin A. A. Golovin D. V. Varenikov A. V. Shvecov V. V. Boynton W. V. Harshman K. Sagdeev R. Z. Milikh G. Chin G. Trombka J. McClanahan T. Starr R. Evans L. Shevchenko V. V.
[Main Results from LEND Instrument After One Year of Lunar Mapping Onboard NASA's LRO](#) [#3041]
- 9:00 a.m. Sanin A. B. * Mitrofanov I. G. Litvak M. L. Tretyakov V. I. Kozyrev A. S. Malakhov A. V. Mokrousov M. I. Vostrukhin A. A. Golovin D. V. Varenikov A. B. Shvecov V. N. Boynton W. V. Harshman K. Sagdeev R. Z. Milikh G. Chin G. Trombka J. McClanahan T. Starr R. Evans L. Shevchenko V. V.
[Which Spot on the Moon has the Highest Content of Hydrogen?](#) [#3040]
- 9:15 a.m. Boynton W. V. * Mitrofanov I. G. Sanin A. B. Litvak M. L. Hamara D. K. Droege G. F. Tretyakov V. I. Kozyrev A. S. Malakhov A. V. Mokrousov M. I. Vostrukhin A. A. Golovin D. V. Varenikov A. B. Shvecov V. N. Sagdeev R. Z. Milikh G. Chin G. Trombka J. McClanahan T. Starr R. Evans L. Shevchenko V.
[Much of the Hydrogen Enrichment near the Lunar South Polar is Outside the Permanently Shadowed Regions](#) [#3061]
- 9:30 a.m. Klima R. L. * Pieters C. M. M³ Team
[The Colorful Moon: Science Discoveries from the Moon Mineralogy Mapper on Chandrayaan-1](#) [#3057]
- 9:45 a.m. McCubbin F. M. * Steele A. Hauri E. H. Nekvasil H. Yamashita S. Hemley R. J.
[Nominally Hydrous Magmatism on the Moon](#) [#3078]
- 10:00 a.m. Sharp Z. D. * Shearer C. K. McKeegan K. D. Barnes J. D.
[The Chlorine Isotope Composition of the Moon and Evidence for an Anhydrous Mantle](#) [#3014]
- 10:15 a.m. Spence H. E. * CRaTER Science Team
[An Overview of Results from the Lunar Reconnaissance Orbiter \(LRO\) Cosmic Ray Telescope for the Effects of Radiation \(CRaTER\)](#) [#3064]
- 10:30 a.m. De Angelis G. * Dachev Ts. P. Tomov B. Matviichuk Yu. Dimitrov P. Spurny F.
[A Comparison Between Models of the Moon Radiation Environment and the Data from the RADOM Experiment Onboard the Indian Chandrayaan-1 Satellite](#) [#3026]
- 10:45 a.m. Farrell W. M. * Jackson T. L. Halekas J. S. Stubbs T. J. Delory G. T. Killen R. M. Collier M. R. Vondrak R. R. DREAM Team L. S. I.
[Are There Electrical Hazards Associated with Operations in the Lunar Polar Region?](#) [#3033]

- 11:00 a.m. Elphic R. C. * Delory G. T. Grayzeck E. J. Colaprete A. Horanyi M. Mahaffy P. Hine B.
Boroson D. Salute J. S.
[*The Lunar Atmosphere and Dust Environment Explorer \(LADEE\): New Mission,
Longstanding Questions*](#) [#3065]
- 11:15 a.m. Cook D. *
[*Role of the Moon in Solar System Exploration*](#) [#3098]
- 11:35 a.m. Leshin L. *
[*Robotic Precursors*](#) [#3099]
- 11:55 a.m. LUNCH