

**Tuesday, November 8, 2011**  
**RESULTS AND STATUS OF CURRENT MISSIONS**  
**8:30 a.m. Lecture Hall**

*Recent Results and Status of Current Lunar Missions and Activities*

**Chairs: Clive Neal**  
**Noah Petro**

- 8:30 a.m. Zuber M. T. \* Smith D. E. Watkins M. Asmar S. C.  
[Update on the GRAIL Twin Spacecraft Mission to the Moon](#) [#2039]
- 8:50 a.m. Pieters C. M. \*  
[Scientific Breakthroughs from the Moon Mineralogy Mapper](#) [#2027]
- 9:10 a.m. Vondrak R. R. \* Keller J. W. Chin G. Garvin J. B. Rice J. W. Jr. Petro N. E.  
[The Lunar Reconnaissance Orbiter: Plans for the Science Phase](#) [#2040]
- 9:25 a.m. Robinson M. S. \* Team L. R. O. C.  
[The Lunar Reconnaissance Orbiter Camera: Two Years Exploring the Moon](#) [#2053]
- 9:40 a.m. Greenhagen B. T. \* Paige D. A. Diviner Science Team  
[Constraints from Diviner Lunar Radiometer Data for Future Lunar Landing Sites](#) [#2054]
- 9:55 a.m. Boynton W. V. \* Droege G. F. Harshman K. Mitrofanov I. G.  
[Results of LEND High Resolution Epithermal Neutron Measurements: Evidence for Two Hydrogen Emplacement Mechanisms](#) [#2044]
- 10:10 a.m. BREAK
- 10:25 a.m. Litvak M. L. \* Mitrofanov I. G. Sanin A. B. Boynton W. V. Chin G. Garvin J. B.  
 Golovin D. V. Droege G. Evans L. Harshman K. Kozyrev A. S. Malakhov A. V.  
 McClanahan T. Milikh G. Mokrousov M. I. Sagdeev R. Z. Starr R.  
[Global Mapping of Neutrons from the Moon by LEND Instrument Onboard LRO](#) [#2020]
- 10:40 a.m. Smith D. E. \* Zuber M. T. Neumann G. A. Mazarico E. Head J. W. III  
 LOLA Science Team  
[Surface Roughness and Slopes on the Moon at 5-Meter Scale](#) [#2037]
- 10:55 a.m. Mazarico E. \* Neumann G. A. Smith D. E. Zuber M. T. Torrence M. H.  
[Illumination Conditions of the Lunar Poles to 65 Degrees Latitude from Lunar Orbiter Laser Altimeter Data](#) [#2030]
- 11:10 a.m. Schwadron N. A. \* Case A. W. Golightly M. Jordan A. Joyce C. Kasper J. Kozarev K.  
 Mislinski J. Spence H. E. Townsend L. W. Wilson J.  
[The Lunar Radiation Environment from the Cosmic Ray Telescope for the Effects of Radiation \(CRaTER\) and from Earth-Moon-Mars Radiation Environment Modules \(EMMREM\)](#) [#2005]
- 11:25 a.m. Mislinski J. F. \* Schwadron N. A. Townsend L. Spence H. E. Rother O. M. Posner A.  
 Squier R. Wilson J. K. Jordan A. P. Anderson R. Baker T. Kozarev K. A. Joyce C.  
[Radiation Risks for Future Manned and Robotic Missions: PREDICCS: Predictions of Radiation from REleASE, EMMREM, and Data Incorporating CRaTER, COSTEP, and Other SEP Measurements — An Online Nowcasting and Forecasting System](#) [#2023]

11:40 a.m. Eppler D. B. \*

[\*The 2010 Desert RATS Science Operations Test: Outcomes and Lessons Learned\*](#) [#2049]

11:55 a.m. Shearer C. K. \* Neal C. R. Christoffersen R. Keller L. P. Clemett S. J. Noble S. K.

[\*Exploring a "New" Moon Now and Preparing for Future Lunar Exploration. A Consortium Study of "Special" Lunar Samples\*](#) [#2006]