

**Tuesday, June 14, 2011**  
**ROLE OF VOLATILES IN FUNDAMENTAL LUNAR PROCESSES**  
**1:30 p.m. Lecture Hall**

**Chairs: Peter Schultz**  
**John Jones**

- 1:30 p.m. Taylor G. J. \* [INVITED TALK]  
[\*Water in the Moon: Implications for Lunar Formation and Geochemical Evolution\*](#) [#6039]
- 1:55 p.m. Stevenson D. J. \* [INVITED TALK]  
[\*What Do Origin Models Tell Us About Lunar Volatile Depletion\*](#) [#6026]
- 2:20 p.m. Elkins-Tanton L. T. \* Grove T. L.  
[\*Water in the Lunar Magma Ocean\*](#) [#6024]
- 2:40 p.m. Wetzel D. T. \* Rutherford M. J. Jacobsen S. D. Hauri E. H. Saal A. E.  
[\*Carbon Solubility in Lunar Magmas\*](#) [#6040]
- 3:00 p.m. Rutherford M. J. \* Wetzel D. Hauri E. H. Saal A. E.  
[\*Origin and Composition of Lunar Volcanic Gas: The Picritic Glass Model\*](#) [#6010]
- 3:20 p.m. Ustunisik G. \* Nekvasil H. Lindsley D. H.  
[\*Experimental Determination of Degassing Paths of Volatiles from Lunar Magmas: New Insights from Time Studies\*](#) [#6018]
- 3:40 p.m. Shearer C. K. \* Burger P. V. Guan Y. Papike J. J. Sutton S. R.  
[\*Volatile Element Transport in the Lunar Crust\*](#) [#6005]
- 4:00 p.m. Schultz P. H. \*  
[\*Delayed Release and Delivery of Volatiles to Polar Reservoirs\*](#) [#6020]
- 4:20 p.m. Wooden D. H. \* Colaprete A. Heldmann J. L. Retherford K. D. Killen R. M. Elphic R. Ennico K.  
[\*Discovery of Heavy Atoms in the Exosphere Above the Permanently Shadowed Region in Cabeus\*](#) [#6067]
- 4:40 p.m. Teodoro L. F. A. \* Elphic R. C. Eke V. R. Siegler M. Schorghofer N.  
[\*Constraining Models of Water Migration in the Lunar Subsurface\*](#) [#6064]