

**Thursday, October 22, 2015**  
**A DYNAMIC MOON I**  
**11:00 a.m. USRA Conference Center**

*Observations from recent and current missions are presented that show the dynamic nature of our Moon.*

**Chairs:** Paul Hayne  
Ryan Clegg-Watkins

- 11:00 a.m. Patterson G. W. \* Bussey D. B. J. Stickle A. M. Turner F. S. Jensen J. R. Nolan M. Yocky D. A. Wahl D. E. Mini-RF Team  
[Mini-RF on LRO and Arecibo Observatory Bistatic Radar Observations of the Moon](#) [#2060]  
Mini-RF has been operating in a bistatic architecture over an approximately 2.5 year period in an effort to understand the scattering properties of lunar terrains as a function of bistatic (phase) angle.
- 11:15 a.m. Speyerer E. J. \* Robinson M. S. Povilaitis R. Z. Wagner R. V.  
[Dynamic Moon: New Impacts and Secondaries Revealed in High Resolution Temporal Imaging](#) [#2052]  
Using repeat LROC NAC observations under identical lighting conditions, we discovered hundreds of new, resolved impact craters and thousands of smaller primary and secondary surface changes.
- 11:30 a.m. Mandt K. E. \* Greathouse T. K. Retherford K. D. Gladstone G. R. Jordan A. P. Lemelin M. Koeber S. D. Bowman-Cisneros E. Patterson G. W. Robinson M. Lucey P. G. Hendrix A. R. Hurley D. Stickle A. M. Pryor W.  
[LRO-LAMP Detection of Geologically Young Craters in Lunar South Pole Permanently Shaded Regions](#) [#2021]  
We present a new method for detecting fresh craters on the Moon using the LRO-LAMP and provide comparison with other LRO datasets. We also present a new method for setting an upper limit for the age of young craters detected with this method.
- 11:45 a.m. Mahanti P. \* Robinson M. S. Thompson T. J.  
[Characterization of Lunar Crater Wall Slumping from Chebyshev Approximation of Lunar Crater Shapes](#) [#2081]  
A method for characterization of crater rim slumping from crater shapes.