A DYNAMIC MOON

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


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.


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.