

Tuesday, March 22, 2016

[T337]

POSTER SESSION I: LUNAR CRATERING CHRONOLOGY: TIME WILL CRAWL
6:00 p.m. Town Center Exhibit Area

O'Brien D. P. Marchi S. Schenk P. M. *POSTER LOCATION #554*
[The Lunar Chronology Cannot Be Directly Scaled to the Asteroid Belt](#) [#2024]

We show that directly scaling the lunar chronology curve to Vesta and other bodies in the asteroid belt is inconsistent with a range of fundamental constraints.

Frey H. V. *POSTER LOCATION #555*
[Comparing the Early and Late Heavy Bombardments on the Moon](#) [#1238]

Evidence for an Early Heavy Bombardment prior to 4.0 BY ago on the Moon suggests it may have been more intense than the traditional Late Heavy Bombardment.

Schultz P. H. *POSTER LOCATION #556*
[The Basin-Impactor Debris Model for the Origin of the Late Heavy Bombardment](#) [#2905]

Rather than an onslaught of small asteroids producing the Late Heavy Bombardment, they are fragments from oblique collisions by a few large bodies.

Michael G. G. Kneissl T. Neesemann A. *POSTER LOCATION #557*
[Planetary Surface Dating from Crater Size-Frequency Distribution Measurements: Poisson Timing Analysis](#) [#2073]

Exact evaluation of crater chronology models using Poisson statistics, resulting in a PDF with an intrinsic uncertainty, to replace binning/fitting methods.

Meyer H. M. Mahanti P. Robinson M. S. Boyd A. K. *POSTER LOCATION #558*
[Quantifying the Effect of Slope on Crater Density: A Preliminary Overview](#) [#2740]

Crater densities of sloped areas are artificially low. It's critical that we understand the effect of slope since it is used to derive absolute model age.

Pritchard I. M. Wang J. Stooke P. J. *POSTER LOCATION #559*
[Lunar Crater Population Statistics and Related Accuracies from an Elevation-Based Impact Crater Detection Technique](#) [#1179]

This work examines the crater population statistics and associated accuracies of the Cratermatic detection system using high-resolution LOLA elevation data.

Ostrach L. R. Petro N. E. Fassett C. I. Whitten J. L. Denevi B. W. et al. *POSTER LOCATION #560*
[A New Look at Copernican and Eratosthenian Crater Populations on the Moon and Assessment of Lunar Chronology](#) [#2099]

Two youngest classes / Of Wilhelms' crater ages / New assessments, yay!

Hiesinger H. Pasckert J. H. van der Bogert C. H. *POSTER LOCATION #561*
 Robinson M. S. Weinauer J. et al.
[New Crater Size-Frequency Distribution Measurements for Autolycus Crater, Moon](#) [#1879]

We performed new crater size frequency distribution measurements for Autolycus crater in an attempt to further constrain the lunar chronology.

Dhingra S. Bhattacharya A. *POSTER LOCATION #562*
[Surface Roughness Measurements and Crater Statistics for Aristillus Impact Crater](#) [#2041]

Surface roughness is estimated using LOLA data and crater statistics is used to estimate the age for specific regions of Aristillus crater.