

Tuesday, March 17, 2015
POSTER SESSION I: LUNAR IMPACTS
6:00 p.m. Town Center Exhibit Area

[T608]

Krüger T. Fey J. Kenkmann T. **POSTER LOCATION #96**
[*The Simple-to-Complex Transition of Lunar Craters: New Precise Depth/Diameter Measurements of Mare and Highland Craters*](#) [#2219]

This study is focused on the simple-to-complex transition diameter of lunar craters and building a new morphometric database for mare and highland craters.

Baker D. M. H. Head J. W. **POSTER LOCATION #97**
[*The Origin of Peak-Ring Basins: Observational Framework and Path Forward in Constraining Models of Impact-Basin Formation*](#) [#2376]

Recent observations of peak-ring basins are summarized and discussed as a framework for resolving uncertainties in numerical models of impact-basin formation.

Dibb S. D. Kiefer W. S. **POSTER LOCATION #98**
[*The Depth-Diameter Relationship for Large Lunar Impact Basins and the Implications for Mare Basalt Thickness*](#) [#1677]

A relationship between depth and diameter for large lunar basins between 300 and 2200 km is utilized to quantify post-impact modification.

Oran R. Shprits Y. Y. Weiss B. P. **POSTER LOCATION #99**
[*Impact-Generated Magnetic Fields on the Moon: A Magnetohydrodynamic Numerical Investigation*](#) [#2987]

A systematic magnetohydrodynamic study of impact-generated fields on the Moon, and their possible contribution in forming crustal remnant magnetization.

Zhu M. H. Wünnemann K. Potter R. W. K. **POSTER LOCATION #100**
[*New Estimates of the Orientale Basin Impactor Size from Modeling of the Ejecta Thickness Distribution*](#) [#1770]

We estimate the Orientale basin impactor size by numerical modeling with ejecta thickness distribution and crustal structure as constraints .

Uemoto K. Ohtake M. Yokota Y. Yamamoto S. Nakamura R. et al. **POSTER LOCATION #101**
[*Distribution of Impact Melt Generated by the South Pole-Aitken Impact*](#) [#1687]

Demonstration of the presence, distribution, and differentiation of impact melt generated by South Pole-Aitken basin impact event on the Moon.

Hurwitz D. Kring D. A. **POSTER LOCATION #102**
[*Identifying the Geologic Context of Apollo 17 Aphanitic, Ophitic, and Poikilitic Impact Melt Breccias*](#) [#1196]

LROC and LOLA data were analyzed to verify that sampled Apollo 17 impact melt breccias originated in massif outcrops not contaminated by younger material.