

Tuesday, September 22, 2015

SIMPLE CRATERS

11:15 a.m. Pathology and Anatomy Lecture Hall

Chair: Thomas Kenkmann

- 11:15 Watters W. A. \* Collins G. S.  
[Measured and Modeled Morphometry of Simple Impact Craters](#) [#1083]  
 We discuss the measured diameter dependence of well-preserved simple crater morphometry on Mars and compare with iSALE simulations. We also describe future work to fully characterize the dependence on impactor velocity and mass, and target properties.
- 11:30 Zanetti M. \* Wilk J. Kukko A. Kaartinen H. Kohv M. Jõelet A. Välja R. Paavel K. Kriiska A. Plado J. Losiak A. Wisniowski T. Huber M. Zhu M. H.  
[The Structure of the Kaali Impact Crater \(Estonia\) Based on 3D Laser Scanning, Electro-Resistivity Tomography, and iSale Hydrocode Modelling](#) [#1103]  
 A field investigation using 3D laser scans, ERT, and strike and dip measurements has produced the highest resolution DEM and structural characterization of the Kaali Main crater to date. We use field measurements to constrain iSale formation models.
- 11:45 Martellato E. \* Vivaldi V. Cremonese G. Massironi M. Marzari F. Robinson M. Haruyama J.  
[On the Canonical Shape of Simple Craters](#) [#1076]  
 NASA LRO images evidenced that Linné (Moon) is described by an inverted truncated cone. We compare morphometric analysis, radar data, numerical modelling and ejecta distribution in order to investigate the shape of the archetype of simple craters.
- 12:00 Szczuciński W. \* Makohonienko M. Muszyński A. Wünneman K. Project scientific party  
[Effects of Moderate Size Meteorite Impact in Unconsolidated Sediments — Interdisciplinary Project on “Morasko” Meteorite Impact](#) [#1097]  
 We present interdisciplinary approach to study a meteorite impact of moderate size including studies of the meteorites, craters and ejecta, sedimentary record in lake sediments as well as numerical modeling to reconstruct its environmental effects.
- 12:15 DISCUSSION