

Friday, May 5, 2017
IMPACT FEATURES, PROCESSES, CHRONOLOGY
8:30 a.m. Aula Conference Room

Topics include discussion of lunar impact features, processes of formation and evolution, and chronology, as well as chapter summaries covering these topics.

Chairs: **Carolyn van der Bogert**
Harald Hiesinger

- 8:30 a.m. Gleißner P. * Becker H.
[*Late Accreted Material on the Lunar Surface: Constraints from Highly Siderophile and Chalcophile Elements in Ancient Lunar Impactites*](#) [#6020]
 Abundances of HSE, Te, Se, and S in ancient lunar impactites constrain accretion of differentiated and primitive material (including carbonaceous chondrite-like material) and variable mixing of their compositions on the lunar surface.
- 8:45 a.m. Neumann G. A. * Goossens S. Head J. W. Mazarico E. Melosh H. J. Smith D. E. Wiczorek M. A. Zuber M. T. LOLA and GRAIL Science Teams
[*Lunar Impact Basin Population and Origins Revealed by LOLA and GRAIL*](#) [#6037]
 The inventory and sizes of large lunar impact basins, some obscured by superposed cratering and volcanism, together with better understanding of the factors that control basin size, will help constrain models of the original impactor population.
- 9:00 a.m. Huang Y.-H. * Minton D. A. Hirabayashi M. Elliott J. R. Richardson J. E. Fassett C. I. Zellner N. E. B.
[*Heterogeneous Impact Transport on the Moon*](#) [#6013]
 Both distal ejecta and proximal ejecta are important to material transport on the Moon, and the patchy nature of ejecta may have resulted in a spatial heterogeneity of exotic material seen in some lunar samples.
- 9:15 a.m. Mazrouei S. * Ghent R. R.
[*Towards an Understanding of Initial Crater Rock Populations: Copernicus Crater vs. Avery Crater*](#) [#6038]
 Boulder distribution around Copernicus Crater and Avery Crater, in pursuit of understanding boulder survival times based on crater size, age, and terrain.
- 9:30 a.m. van der Bogert C. H. * Hiesinger H. Spudis P.
[*The Age of the Crisium Impact Basin*](#) [#6009]
 CSFD measurements of newly discovered Crisium impact melt remnants give absolute model ages consistent with radiometric ages of Luna 20 samples. Our new Crisium N(1) fits the lunar chronology function better than the previous value.
- 9:45 a.m. Hiesinger H. * van der Bogert C. H. Plescia J. B. Robinson M. S. Robbins S. Michael G. Schmedemann N. Ivanov B. Hartmann W. Ostrach L. Williams J.-P. Zanetti M. Speyerer E. Werner S.
[*Lunar Impact Chronology: Status, Advancements, Implications, and Things to Consider*](#) [#6023]
 We will present the outline of the chronology chapter of the New Views of the Moon 2 book and will present recent progress with respect to the lunar chronology.
- 10:00 a.m. BREAK
- 10:15 a.m. DISCUSSION