

Wednesday, May 20, 2015
WE CARE BECAUSE WE ...
8:00 a.m. E200 Auditorium

Chairs: Caleb Fassett
Paul Schenk

- 8:00 a.m. Head J. W. III *
[Impact Cratering: Relationship to Geological History of the Terrestrial Planets and Future Exploration Goals](#) [#9037]
We explore impact cratering and the relationship to geological history of the terrestrial planets and future exploration goals.
- 8:40 a.m. Bugiolacchi R. *
[New Insights into the Crater and Boulder Distributions Across the Apollo 17 Region](#) [#9002]
d/D profiles, boulder tracks, isotopic data, and localised size-frequency distribution of small craters, point to two major surface modification events in the Apollo 17 region, one linked to Tycho crater, and a newly proposed one, at around 20 Ma.
- 9:05 a.m. Singer K. N. * Stern S. A.
[Impacts and Cratering on Pluto: Implications for the Source of Pluto's Nitrogen \(N₂\)](#) [#9031]
Craters on Pluto and Charon will provide key information, including clues to the source of Pluto's surface and atmospheric N₂. With current estimates of impactor flux on Pluto, comets could not deliver enough N₂, but impacts might excavate it.
- 9:30 a.m. Neesemann A. * Kneissl T. Schmedemann N. Walter S. H. G. Michael G. G.
van Gasselt S. Hiesinger H. Jaumann R. Raymond C. Russell C. T.
[Investigations and Regression Analyses of Size-Frequency Distributions of Sub-Kilometer Impact Craters on Vesta](#) [#9019]
We have measured size-frequency distributions of sub-km impact craters on fresh units on Vesta and performed weighted least squares regression analyses. Derived power-law exponents were then compared with the two currently used production functions.
- 9:55 a.m. BREAK