

Thursday, May 4, 2017
LUNAR CRUST AND TECTONICS
1:30 p.m. Aula Conference Room

*Topics include discussion of the crust and tectonics of the Moon
and chapter summaries covering these topics.*

**Chairs: Amanda Nahm
Deepak Dhingra**

- 1:30 p.m. Donaldson Hanna K. L. * Cheek L. C. Pieters C. M. Mustard J. F.
Greenhagen B. T. Bowles N. E.
[Remote Sensing Constraints on the Formation and Evolution of the Moon's Anorthositic Crust](#) [#6031]
Remote sensing observations place important constraints on the formation and evolution of the Moon's anorthositic crust.
- 1:45 p.m. Dhingra D. * Pieters C. M.
[Impact Melt Cover on Central Peaks of Complex Craters: Implications for Deriving Crustal Composition](#) [#6004]
The use of impact crater central peaks for deriving crustal mineralogy at depth assumes pristine nature of the peaks. Impact melt on several central peaks is evidence for contamination. Central-peaks- derived crustal mineralogy may be affected.
- 2:00 p.m. Clark J. D. * van der Bogert C. H. Hiesinger H.
[Advances in Understanding the Formation, Distribution, and Ages of Lunar Lobate Scarps](#) [#6024]
We applied crater counting methods on 40 lobate scarps, to investigate the range and distribution of scarp ages, and the effects of seismic shaking.
- 2:15 p.m. Nahm A. L. * Chierici V. R.
[Ages of Dike Intrusions on the Moon](#) [#6007]
The ages of dike-induced graben identified by Klimczak [2014] are determined through geologic mapping and crater counting to be as recent as 3.3 Ga.
- 2:30 p.m. Garrick-Bethell I. *
[Long Wavelength Structure of the Lunar Crust: Tidal-Rotational Origins and Implications for True Polar Wander](#) [#6033]
Understanding the origin and structure of the lunar crust at long wavelengths would help constrain the Moon's thermal history and orbital evolution. I present a review of work on these problems and future research directions.
- 2:45 p.m. Nahm A. L. * Johnson C. L.
[Lunar Tectonics Chapter in the Updated New Views of the Moon 2 Volume](#) [#6021]
We discuss the lunar tectonics chapter to be included in the New Views of the Moon 2 volume.
- 3:00 p.m. BREAK
- 3:15 p.m. DISCUSSION