

Thursday, March 22, 2018

[R556]

PLEASANT PLUTO I

1:30 p.m. Montgomery Ballroom

**Chairs: Noah Hammond
Julie Rathbun**

- 1:30 p.m. McKinnon W. B. * Schenk P. M. Bland M. T. Singer K. N. White O. L. et al.
[Pluto's Heat Flow: A Mystery Wrapped in an Ocean Inside an Ice Shell](#) [#2715]
Evidence confounds / Pluto's heat flow large or small? / Geology tells.
- 1:45 p.m. O'Hara S. * Dombard A. J.
[Downhill Sledding at 40 AU: Mobilizing Pluto's Chaotic Mountain Blocks](#) [#1360]
Pluto's mountains slid / Not as graceful as floating / But a lot faster!
- 2:00 p.m. White O. L. * Moore J. M. Howard A. D. Schenk P. M. Umurhan O. M. et al.
[Washboard and Fluted Terrain on Pluto: Evidence for Past Expanded Glaciation](#) [#1697]
Mapping of washboard and fluted terrain suggests that these textures represent deposits emplaced during glacial retreat of a formerly expanded Sputnik Planitia.
- 2:15 p.m. Gabasova L. R. * Tobie G. Choblet G.
[Compaction-Driven Evolution of Pluto's Rocky Core: Implications for Water-Rock Interactions](#) [#2512]
Pluto's icy shell / Interacts with porous core, / Helps keep ocean warm.
- 2:30 p.m. Schenk P. * Beyer R. Moore J. McKinnon W. Spencer J. et al.
[High-Resolution Topography of Pluto and Charon: Getting Down to Details](#) [#2300]
Pluto surface pitted / Nitrogen ice sheet deep or flat? / Vigorous and sublime.
- 2:45 p.m. Beddingfield C. B. * Beyer R. A. Singer K. Nimmo F. McKinnon W. B. et al.
[Landslides in the Serenity Chasma Region, Charon](#) [#2378]
The friction coefficients that we estimated for Charon's landslides are low, consistent with warm ice, suggesting flash heating occurred during emplacement.
- 3:00 p.m. Cheng A. F. * Summers M. E. Gladstone G. R. Lauer T. Young L. A. et al.
[Pluto's Atmospheric Haze Distribution to Above 600 km: No Winter Pole N₂ Condensation](#) [#1492]
Deep departure imaging from New Horizons shows Pluto haze to above 600 km; distribution indicates no winter pole N₂ condensation.