

Thursday, May 18, 2017
INTERACTIONS BETWEEN AEOLIAN AND OTHER PROCESSES
3:00 p.m. Zion Room

Chairs: Jason Barnes
Heather Charles

- 3:00 p.m. Hansen C. J. * Diniega S. Hayne P. Portyankina G.
[Mars' North Polar Erg — Sculpted by Wind and Dry Ice](#) [#3056]
Wind and seasonal dry ice sculpt the dunes of Mars in the polar regions. Does snowfall play a role in driving sand avalanches and the development of new alcoves? Interannual variability suggests this may be the case.
- 3:20 p.m. Portyankina G. * Hansen C. J. Aye K.-M.
[Seasonal Small-Scale Phenomena on Martian Polar Dunes](#) [#3052]
We report on four martian years of high resolution observations of seasonal activity on martian polar dunes.
- 3:40 p.m. McElwaine J. N. * Diniega S. Hansen C. J. Bourke M. Nield J.
[The Formation of Martian Dune Gullies by Dry Ice — Experiments and Modelling](#) [#3035]
Long narrow gullies have been observed to form in the spring on martian dunes. We present experiments and modelling to show that they may have been formed by blocks of dry ice.
- 4:00 p.m. Liu B. * Coulthard T.
[In Dynamic Equilibrium: The Autogenic Landform Change in a Fluvial-Aeolian Interacting Field](#) [#3001]
A cellular aeolian/dune model and fluvial model are applied to simulate interacting process. Whilst various interacting behaviours have been observed in the simulations, an unexpected cyclic large scale landscape change is noticed.
- 4:20 p.m. Malaska M. J. * Lopes R. M. C. Radebaugh J. Kerber L. Solomonidou A.
[What is the Ultimate Fate of Titan's Dune Sands?](#) [#3021]
Dark Titan dune sands / Continue beyond sand seas / How far do they go?
- 4:40 p.m. PANEL DISCUSSION