

Thursday, May 21, 2015
DUNE MIGRATION AND TRANSPORT
8:30 a.m. Lookout Room

Investigation dune migration and transport on Mar sand Titan.

Chairs: James Zimbelman
Kristen Bennett

- 8:30 a.m. Bridges N. T. * Ehlmann B. L. Conrad P. Ewing R. Ayoub F. Day M. de la Torre M. Fisk M. Fraeman A. Hardgrove C. Herkenhoff K. E. Johnson J. Lapotre M. Lewis K. Kocurek G. Le Mouélic S. Martin-Torres J. Newman C. Newsome H. Rubin D. Sullivan R. Zorzano M. -P.
[Investigation of the Bagnold Dunes by the Curiosity Rover: Plans for the First Study of an Active Dune Field on Another Planet](#) [#8028]
 We describe plans for MSL investigations of the Bagnold Dune Field in Gale Crater.
- 9:00 a.m. Banks M. E. * Geissler P. E. Bridges N. T. Russell P. Silvestro S. Chojnacki M. Zimbelman J. R. Delamere W. A.
[Emerging Global Trends in Aeolian Bedform Mobility on Mars](#) [#8036]
 Emerging global trends in the mobility of martian bedforms in relation to their general location, albedo, surrounding surface slope, and elevation.
- 9:30 a.m. Bennett K. A. * Fenton L. Bell J. F. III
[Correlating Albedo with Dune Movement on Mars](#) [#8038]
 In this study we propose a method to estimate dune activity by calculating changes in dune field albedos.
- 10:00 a.m. BREAK
- 10:15 a.m. Chojnacki M. * Michaels T. I. Fenton L. K. Banks M. E.
[Widespread Dune Migration in Meridiani Planum, Mars](#) [#8030]
 Here we describe the migration rates, volumetric sediment fluxes, and turnover times of sand dunes across Meridiani Planum. Results suggest high rates of sediment transport and youthful ages for large dark dunes across the region.
- 10:45 a.m. MacKenzie S. M. * Barnes J. W.
[The Lake-Dune Connection: Investigating Titan's Sand Sources](#) [#8029]
 To address how Titan's sand particles become large enough to saltate, we investigate the feasibility of flocculation and evaporite-derivation, especially with respect to possible equatorial sites of formation.
- 11:15 a.m. Barnes J. W. *
[Global Connectivity and Transport within Titan's Sand Sea](#) [#8040]
 Global sand river, / Dunes like a Mobius strip: / Xanadu, the twist.
- 11:45 a.m. DISCUSSION