

**Tuesday, May 19, 2015**  
**BEDFORM MORPHOLOGY**  
**8:45 a.m. Lookout Room**

*Aeolian Bedforms Observed on a Variety of Planetary Surfaces, Including Comets, Venus, Mars and Earth.*

**Chairs: Hezi Yizhaq**  
**Matthew Chojnacki**

- 8:45 a.m. Tirsch D. \* Mottola S. Otto K. Kührt E. Jaumann R. Arnold G. Grothues H.-G. Hamm M. Michaelis H. Pelivan I. Proffe G. Scholten F. Schröder S. Bibring J.-P.  
[Morphology of Aeolian Bedforms on 67P/Churyumov-Gerasimenko](#) [#8024]  
 We describe and analyze various aeolian bedforms found on the comet 67P/Churyumov-Gerasimenko imaged by ROLIS and OSIRIS data.
- 9:15 a.m. Kreslavsky M. A. \* Bondarenko N. V.  
[Aeolian Bedforms Associated with Radar-Dark Diffuse Features on Venus](#) [#8035]  
 With few exceptions, asymmetric aeolian bedforms are absent in the central parts of extended crater-related deposits on Venus but are persistent in their peripheral parts. We discuss possible explanations of this phenomenon.
- 9:45 a.m. Lorenz R. D. \*  
[Heights of Fortuna-Meshknet Dunes \(Al-Uzza Undae\), Venus, from Magellan Radarclinometry](#) [#8004]  
 I re-examine Magellan images of Al-Uzzae, applying radarclinometric techniques used for Cassini. I find dune heights of ~40m, suggesting the dunes are not 'fully-grown' given their wavelength, perhaps due to limited sand supply.
- 10:15 a.m. Geissler P. E. \* Wilgus J. T.  
[Antidunes on Mars?](#) [#8039]  
 Transverse aeolian ridges (TARs) may have formed by a process different from either ripples or dunes.
- 10:45 a.m. Vaz D. A. \* Sarmiento P. T. K. Fenton L. K. Barata M. T. Michaels T. I.  
[Object-Based Dune Mapping and Characterization on Mars: Data Comparison and Accuracy Assessment](#) [#8045]  
 We evaluate qualitatively and quantitatively a new methodology that enables the automated mapping and characterization of martian dune fields using CTX image mosaics.
- 11:15 a.m. Tsoar H. \*  
[The Puzzle of Linear Dunes on Planets](#) [#8005]  
 There are several types of linear dunes in the world's deserts where most of them are found on Mars and Titan. In my lecture I will cover what we do and do not know about these dunes.
- 11:45 a.m. DISCUSSION