

Tuesday, October 27, 2015

EQUATORIAL I

3:55 p.m. Lecture Hall

- 3:55 p.m. McEwen A. \* Chojnacki M. Miyamoto H. Hemmi R. Weitz C. Williams R. Quantin C. Flahaut J. Wray J. Turner S. Bridges J. Grebby S. Leung C. Rafkin S.  
[Landing Site and Exploration Zone in Eastern Melas Chasma](#) [#1007]  
Eastern Melas Chasm may be the best human Exploration Zone for science and resources if enough water can be extracted from either the abundant recurring slope lineae or voluminous hydrated sulfates in this region.
- 4:10 p.m. Mojarro A. \* Ruvkun G. Zuber M. T. Carr C. E.  
[Human Exploration of Mars at Valles Marineris: The Past, Present, and Future of Life on Mars](#) [#1036]  
ROIs conceivable of harboring extant life at RSL sites, preserved microfossils beneath sedimentary deposits or biosignatures within impact glasses. Potentially exploitable aquifers and favorable environmental conditions for human habitation.
- 4:25 p.m. Farrell K. W. Jr. \*  
[Mars Landing + 50 Years: Repurposing the First Viking Landing Site on Chryse Planitia as an Exploration Zone for Automated Infrastructure Construction](#) [#1019]  
The proposed Chryse Planitia EZ centered near the VL-1 landing site has evidence for adequate water ice, silica, and load-bearing bedrock surface resources to utilize as infrastructure for long-term missions to support humans.
- 4:40 p.m. Kochemasov G. G. \*  
[Vallis Marineris Mouth as the Best Location for Exploration Zone \(EZ\)](#) [#1006]  
The mouth of Vallis Marineris is a particularly interesting location where the widest rock varieties could be expected. The Vallis crosses chaotic terrains and equatorial zone where water ice could be discovered. Pathfinder and Viking were nearby.
- 4:55 p.m. Clifford S. M. \* Kring D. A. Treiman A. H.  
[The Eastern Outlet of Valles Marineris: A Window into the Ancient Geologic and Hydrologic Evolution of Mars](#) [#1054]  
The proposed EZ, at the eastern end of Valles Marineris, provides direct access to a Noachian stratigraphic whose exposure and accessibility is unequalled by any other location on the planet.
- 5:10 p.m. INTEGRATING DISCUSSION
- 5:40 p.m. DAILY WRAP UP