

Thursday, March 10, 2011
POSTER SESSION II: MARTIAN FANCLUB
6:00 p.m. Town Center Exhibit Area

Grant J. A. Wilson S. A.

[*Late Alluvial Fan Formation in Southern Margaritifer Terra, Mars*](#) [#2048]

Crater statistics indicate that exposed alluvial fan deposits within craters in southern Margaritifer Terra likely formed in the Amazonian or near the Hesperian-Amazonian boundary.

Goddard K. Gupta S. Densmore A. L. Kim J-R. Warner N. H. Carbonneau P. Muller J-P.

[*Sediment Fan Evolution and Hydrologic Activity in Mojave Crater, Mars*](#) [#1832]

Catchment-fans with channel networks have been observed in Mojave Crater, Mars. We used a ~1m resolution HiRISE DTM to look at fan formation processes and past water activity. We have observed geomorphology suggesting episodic water availability.

de Villiers G. Hauber E. Kleinhans M. G. Postma G.

[*Fan-Shaped Deposits on Earth, Mars, and in the Laboratory*](#) [#1694]

An investigative study of morphologic parameters (e.g. size, shape, gradient) of fan-shaped sedimentary deposits on both Earth and Mars, combined with comparison to analogue deposits that have been formed in the laboratory.

Morgan A. M. Beyer R. A. Howard A. D. Moore J. M.

[*Simulating the Formation of Large Alluvial Fans on Mars*](#) [#1584]

Numerous alluvial fans have been identified in the southern martian highlands. We use a landform-evolution model to simulate growth of these fans to infer the prevalent local climatic conditions during their formation.