

Thursday, March 13, 2008
POSTER SESSION II: COMPARATIVE PLANETOLOGY
6:30 p.m. Fitness Center

Burr D. M. Marshall J. Greeley R. Schickele D. Woosley C. R. Bridges N. T. White B. R.
The Titan Wind Tunnel: A New Resource in the Planetary Aeolian Laboratory [#2196]
This abstract describes on-going refurbishment of NASA's Venus Wind Tunnel for Titan analog work. This refurbishment will make the wind tunnel available to the community through the PGG program for experiments under simulated Titan conditions.

Korzenszky R. Bérczi Sz. Hargitai H. Kereszturi Á. Hegyi S. Hudoba Gy. Pinter A. Varga T.
Kabai S. Nagy Sz. Gucsik A.
Comparison of the Ice Cover Fissure Systems of Jovian Satellite Europa and Frozen Lake Balaton, Hungary [#2284]
Comparison of lake ice features on Earth (Balaton, Hungary) and grey bands of Europa.

Boyce J. M. Nadine N. R. Mougini-Mark P. J. Stewart S.
Ganymede Rampart Craters: Their Possible Implications to the Role of Subsurface Volatiles in Emplacement of Martian Layered Ejecta [#1402]
Rampart ejecta craters around Ganymede crater suggest that subsurface properties rather than atmospheric properties dominate the formation of rampart structures.

Michael G. Neukum G.
Surface Dating: Software Tool for Analysing Crater Size-Frequency Distributions Including Those Showing Partial Resurfacing Events [#1780]
Erosional or mantling resurfacing processes change the crater population by removing members at the low-diameter edge of the size-frequency distribution. This poster describes a method to account for this in deducing a surface age.

Schneider S. E. Kohlstedt D. L. Demouchy S.
Flow Laws Describing Deformation of the Lithospheres of Terrestrial Planets Based on Experiments on Single Crystals of Olivine at Low Temperature and High Pressure [#1227]
Our research focuses on flow laws describing deformation of the lithospheres of terrestrial planets based on experiments on single crystals of olivine at low temperatures between 800° and 1200°C and high pressures up to 500 MPa.

Ganesan A. L. Elkins-Tanton L. T. Seager S.
Temperature Distributions on Tidally-Locked Hot Exoplanets [#1368]
We present a preliminary computational method to understand possible surface and interior temperatures and atmospheric compositions of hot, rocky exoplanets by modeling solid-state heat transfer using conductive and radiative transport.

Deau E. Dones L. Charnoz S. Brahic A.
Is the Opposition Surge Morphology a Relevant Diagnosis of the Knowledge of Atmosphereless Planetary Surface? [#1498]
The opposition effect on planetary surfaces of the solar system offers interesting constraints about regoliths and state of the macroscopic surfaces and may be a relevant domain in comparative planetology.

Bargery A. S. Lane S. J. Wilson L. Gilbert J. S.
Laboratory Simulation of the Release of Subsurface Water and Brine on to the Surface of Mars and Icy Satellites [#1702]
We explore the effects of a reducing atmospheric pressure on the phase changes of water and NaCl brines, implications for evaporation rates of these liquids, and the physical properties of the ice that forms from freezing under specified conditions.