

Monday, June 1, 2009  
HYDROLOGY OF THE MARTIAN CRUST  
8:45 a.m. Lecture Hall

- 8:45 a.m. Clifford S. M. \* Lasue J. [INVITED]  
[\*The Role of Thermal Vapor Diffusion in the Subsurface Hydrologic and Mineralogic Evolution of the Martian Crust\*](#) [#4017]
- 9:15 a.m. Lasue J. \* Clifford S. M.  
[\*The Impact of Astronomically Induced Insolation Variations on the Extent of the Martian Cryosphere\*](#) [#4016]
- 9:30 a.m. Harrison K. P. \* Grimm R. E.  
[\*Regionally Compartmented Groundwater Flow on Mars\*](#) [#4012]
- 9:45 a.m. Travis B. J. \* Palguta J. Barnhart C. McGraw M. Feldman W. C.  
[\*MAGNUM - A Numerical Simulator for Non-Isothermal Flow and Transport Processes in the Martian Regolith and Other Permeable Media\*](#) [#4022]
- 10:00 a.m. BREAK
- 10:15 a.m. Möhlmann D. T. F. \*  
[\*Liquid Interfacial and Melt-Water in the Upper Sub-Surface of Mars\*](#) [#4001]
- 10:30 a.m. Rivera-Valentin E. G. \* Chevrier V. F. Ulrich R.  
[\*Time Dependent Model for Heat Transfer and Water Vapor Diffusion/Adsorption at the Phoenix Landing Site\*](#) [#4020]
- 10:45 a.m. Chevrier V. F. \* Ulrich R. Altheide T. S.  
[\*Viscosity of Liquid Ferric Sulfate Solutions and Application to the Formation of Gullies on Mars\*](#) [#4011]
- 11:00 a.m. Howe K. L. \* Rivera-Valentin E. G. Chevrier V. F. Dixon J. C.  
[\*Experimental Simulation of the Effect of Viscous Fluids on Martian Gully Forms\*](#) [#4024]
- 11:15 a.m. Wilkinson M. J. \* Miller R. McG. Allen C. C. Kreslavsky M. H. Eckardt F.  
[\*Megafans as Hydrous Environments\*](#) [#4034]
- 11:30 a.m. LUNCH