

Wednesday, July 28, 2010
MARTIAN METEORITES: EVIDENCE FOR FLUIDS, MAGMATIC PROCESSES,
AND IMPACT PROCESSES
8:30 a.m. Skyline

- Chairs:** Hanna Nekvasil
 Ahmed El Goresy
- 8:30 a.m. Needham A. W. * Tomkinson T. Abel R. L. Franchi I. A. Grady M. M.
[Martian Subsurface Fluid Pathways Revealed by 3D Mineralogy of the Nakhla Meteorite](#) [#5336]
- 8:45 a.m. Changela H. G. * Bridges J. C.
[Smectite-Serpentine Mixtures in the Lafayette Meteorite](#) [#5300]
- 9:00 a.m. Jones J. H. * Arauza S. J.
[The Parent Liquid of EET79001, Lithology B](#) [#5331]
- 9:15 a.m. Ustunisik G. * Nekvasil H.
[The Effect of Cl and S on Mineral Saturation in Interstitial Melts of the Chassigny Dunite: Experimental Results](#) [#5138]
- 9:30 a.m. Nekvasil H. * Ustunisik G. McCubbin F. M.
[The Effect of Cl and S on Mineral Saturation in Interstitial Melts of the Chassigny Dunite: Petrogenetic Implications](#) [#5323]
- 9:45 a.m. El Goresy A. * Miyahara M. Ozawa S. Ohtani E. Gillet Ph. Beck P. Montagnac G. Nagase T. Hiraga K.
[Liquidus High-Pressure Assemblages in Shocked Martian Shergottites: Constraints to Equilibrium Peak Shock-Pressures and Consequences to Radiometric Ages](#) [#5020]
- 10:00 a.m. Filiberto J. * Dasgupta R.
[Fe-Mg Partitioning Between Olivine and Martian Magmas: Application to Genesis of Olivine-Phyric Shergottites and Conditions of Melting in the Martian Interior](#) [#5295]
- 10:15 a.m. Wittke J. H. * Bunch T. E. Herd C. D. K. Lapen T. J. Rumble D. III Irving A. J. Pitt D.
[Petrology and Composition of "Enriched" Mafic Shergottite Northwest Africa 5718: Contrasts with Northwest Africa 2975/2986](#) [#5313]
- 10:30 a.m. Sanborn M. E. * Wadhwa M.
[Trace Element Geochemistry of the Basaltic Shergottite Northwest Africa 2975](#) [#5294]
- 10:45 a.m. Kurihara T. * Mikouchi T. Ohnishi I. Suzuki T.
[Transmission Electron Microscopy of Dark Olivine in NWA 1950 Lherzolithic Shergottite](#) [#5251]
- 11:00 a.m. Rao M. N. * Nyquist L. E. Bogard D. D. Garrison D. H. Sutton S. R. Reedy R. C.
[Further Evidence for a Martian Regolith Component in Shergottites](#) [#5118]
- 11:15 a.m. Williams C. D. * Wadhwa M. Bell D. R.
[Fluorine Abundances and Zonation Patterns in Martian Pyroxenes](#) [#5390]