Survival of Methanogens on Different Martian Regolith Analogs: Implications for Returned Martian Samples [5072]

Certain methanogens can survive for 120 days in the desiccated state at Mars surface pressure of 6 mbar on different martian regolith analogs. This would seem to indicate that these organisms may be able to survive and possibly thrive on Mars.

Preferred Mineral Orientations in Martian Shergottites: Magmatism or Shock? [5145]

We have studied the textures and the preferred orientation of pyroxene in subsamples of Zagami and Nakhla using Electron Backscatter Diffraction (EBSD) method. Data show the activation of several slip systems, related to magmatism or shock event.

Terrestrial Organic and Inorganic Contamination of the NWA 5790 Nakhlite [5248]

The hot desert nakhlite find NWA 5790 is encrusted by terrestrial carbonates and microbial filaments.

Magnetism and Mössbauer Spectroscopy of Ksar Ghilane 002 Basaltic Shergottite [5107]

Here we report new results about the magnetic signature and phase composition and Mössbauer spectroscopy of the basaltic shergottite KG 002, which was found in Tunisia in 2010. Launch pairing with LA 001/002 and NWA 2800 is discussed.