

Thursday, March 26, 2009  
POSTER SESSION II: ANTARCTIC MICROMETEORITES  
6:30 p.m. Town Center Exhibit Area

Dobrica E. Engrand C. Leroux H. Rouzaud J. N. Duprat J.

[Transmission Electron Microscopy of Ultracarbonaceous Antarctic Micrometeorites of Possible Cometary Origin](#) [#1534]

TEM observations of ultracarbonaceous Antarctic micrometeorites show intimate mixing of disordered carbon and fine-scale assemblages of minerals like Mg-rich olivine, pyroxenes and Fe-Ni sulphides and alloys.

Imae N. Iwata N.

[Compositions of Relict Olivines and Pyroxenes in Micrometeorites: In Comparison with Unequilibrated Chondrites](#) [#1501]

Relict olivines and pyroxenes survived the atmospheric entry heating among Antarctic micrometeorites tend to be similar to the CR2 and CO3.0 chondrites rather than the CM2 and Tagish Lake chondrites.

Taylor S. Herzog G. F. Jones K. W.

[Tomography of Metal Beads in Micrometeorites](#) [#1692]

To better understand metal bead formation in micrometeorites (MMs) we measured the shapes and size distribution of beads relative to their host MMs in section and mapped the internal structure of MMs using synchrotron computed microtomography.

Badjukov D. D. Brandstaetter F. Raitala J. Kurat G.

[Unmelted FeNi Metal Micrometeorites from the Novaya Zemlya Glacier](#) [#1499]

We report on the texture and mineralogy of two FeNi metal and one metal-chromite particles, which possibly are the first unmelted metal micrometeorites found so far.

Suavet C. Alexandre A. Franchi I. A. Gattacceca J. Sonzogni C. Folco L.

Greenwood R. C. Rochette P.

[Oxygen Isotope Ratios of Large Cosmic Spherules: Carbonaceous and Ordinary Chondrite Parent Bodies](#) [#1776]

Oxygen isotopes measurements of 33 cosmic spherules, using IR-laser fluorination/mass spectrometry, indicate that 30% of them are above the terrestrial fractionation line, i.e., are unrelated to carbonaceous chondrites but rather to ordinary and R chondrites.

Onoue T. Yasuda C. Haranosono T. Morita K. Nakamura T.

[Cosmic Spherules from Triassic Deep-Sea Sediments in Japan](#) [#1228]

We report the textures and major element compositions of cosmic spherules from the Triassic deep-sea sediments that accumulated in a mid-oceanic basin of the ancient Pacific Ocean.