Thursday, March 26, 2009
INTERSTELLAR MATTER: ORIGINS AND RELATIONSHIPS
10:00 a.m. Waterway Ballroom 5

Chair: **Frank Stadermann**

10:00 a.m. Duprat J. * Dobrica E. Engrand C. Aléon J. Gounelle M. Leroux H. Marrocchi Y. Meibom A. Mostefaoui S. Rouzaud J.-N. Robert F.
Extreme Deuterium Enrichment in Organic Matter from Cometary Antarctic Micrometeorites **[#1724]**
Deuterium rich organic matter, with D/H up to 30 times the terrestrial value, has been identified in ultra-carbonaceous micrometeorites from central Antarctic snow, strongly suggesting a cometary origin for these objects.

10:15 a.m. Floss C. * Stadermann F. J. Yada T. Noguchi T. Nakamura T.
Anomalous Nitrogen Isotopic Compositions in the Stardust-rich Antarctic Micrometeorite T98G8: Affinities to Primitive CR Chondrites and Anhydrous IDPs **[#1082]**
We report the presence of abundant N isotopic anomalies in T98G8, an Antarctic micrometeorite that contains high abundances of presolar grains. Its mineralogical and isotopic characteristics suggest a link to IDPs or certain CR chondrites.

10:30 a.m. Bonal L. * Huss G. R. Krot A. N. Nagashima K.
Highly ^{15}N-enriched Chondritic Clasts in the CB/CH-like Isheyevo Meteorite **[#2046]**
We report the discovery of chondritic clasts in the CB/CH-like meteorite Isheyevo, characterized by bulk ^{15}N-enrichment such as $\delta^{15}N = 1000–1300‰$ and where hotspots (up to $\delta^{15}N = 4000‰$) are present. Their origin will be discussed.

10:45 a.m. Ishii H. A. * Bradley J. P. Bonal L. Krot A. N. Huss G. R. Nagashima K. Hutcheon I. D. Teslich N.
Transmission Electron Microscopy on Highly ^{15}N-Enriched Chondritic Clasts in the Isheyevo Meteorite **[#2467]**
To explore the possible origin and carrier(s) of extreme ^{15}N enrichments in unique chondritic clasts in the Isheyevo CH/CB-like meteorite, TEM analyses are being undertaken. Initial results from bulk-enriched and hotspot areas are presented.

11:00 a.m. Briani G. * Gounelle M. Marrocchi Y. Mostefaoui S. Robert F. Leroux H. Meibom A.
Ultra-Pristine Extra-Terrestrial Material with Unprecedented Nitrogen Isotopic Variation **[#1642]**
A xenolith in the chondrite Isheyevo shows pristine mineralogy and the most extreme N isotopic variation measured in any solar system material — but no H and C isotopic anomalies. This poses new challenges for models for light element fractionation.

11:15 a.m. De Gregorio B. T. * Stroud R. M. Nittler L. R. Cody G. D. Kilcoyne A. L. D.
Isotopically Anomalous Organic Globules from Comet 81P/Wild 2 **[#1130]**
Two Stardust cometary organic globules contain anomalous δD or δ^{15}N (but not both), indicating a presolar origin.