Tuesday, March 17, 2015
POSTER SESSION I: STARDUST MISSION AND COSMIC DUST
6:00 p.m. Town Center Exhibit Area

Taylor S. Lindsay F. N. Nakashima D. Herzog G. F. Kita N. T. et al. POSTER LOCATION #452
Searching for Microachondrites [#2227]
We made elemental and oxygen isotope measurements of selected micrometeorites to match specific textures or relict minerals to achondritic compositions.

Defouilloy C. Kita N. T. Lord N. E. Sobol P. E. Tenner T. J. et al. POSTER LOCATION #453
New WiscSIMS IMS 1280 100-nm-Resolution Primary Beam Deflection System, for Accurate Aiming of Returned Samples [#1415]
Development of an FIB-marking protocol coupled with a modified deflector board to improve aiming of small particles with 100 nm precision.

Snead C. J. McKeegan K. D. Boehnke P. Kearsley A. T. POSTER LOCATION #454
Further Oxygen Isotope Measurements for Two Cometary Impact Crater Residues: Still Like Chondrites [#2621]
We have measured the oxygen isotope composition of two additional impact crater residues collected by the Stardust spacecraft.

Price M. C. Bridges J. C. MacArthur J. L. Hicks L. J. POSTER LOCATION #455
Carbonaceous and Magnetite-Bearing Stardust Cometary Grains from Tracks 187, 188, 189, 190 [#2000]
We present Raman spectroscopy and XANES results from a set of 19 grains found in 4 tracks taken from the cometary side of NASA’s Stardust mission collector.

Palma R. L. Pepin R. O. Schlutter D. J. Frank D. R. Bastien R. et al. POSTER LOCATION #456
Neon and Helium in the Surface of Stardust Cell C2028 [#2378]
Q-gases with high Ne abundance, combined with spallation and solar wind components, were detected in particles trapped in Stardust surface aerogel.

Floss C. POSTER LOCATION #457
Identification of Impact Craters in Aluminum Foil from the Stardust Interstellar Dust Collector: An Update [#1005]
Post-ISPE scanning of Al foils from the Stardust interstellar dust collector has led to the identification of eight additional impact features.

Flynn G. J. Northrup P. Wirick S. POSTER LOCATION #458
P-, S- and K-XANES of cluster IDP L2009R2 show P as phosphate while sulfides contain sulfate suggesting a reaction rim formed in the Nebula or the parent body.

Matsuno J. Miyake A. Tsuchiyama A. Messenger S. Nakamura-Messenger K. POSTER LOCATION #459
Complete TEM-Tomography: 3D Structure of GEMS Cluster [#2177]
To evaluate 3D nano structure of GEMS correctly, we performed complete TEM-tomography. Many GEMS grains were observed to be aggregated into clusters.

Ishii H. A. POSTER LOCATION #460
Size Matters: Assessing Degree of Preservation of Interplanetary Dust and Micrometeorites [#2541]
New approaches to assess atmospheric entry alteration, especially below solar flare track erasure temperatures, in CP IDPs and UCMMs for comparison to Wild 2.
Ventura Bordenca C.  Huber M. S.  Goderis S.  Debaille V.  Claeys Ph.  

**POSTER LOCATION #461**  
*Classification of Cosmic Spherules from Widerøefjellet (Sør Rondane Mountains, East Antarctica)*  
[#1762]  
We report the classification of a large number of well-preserved melted micrometeorites collected at Widerøefjellet Mountain in East Antarctica.

Isobe H.  Gondo T.  

**POSTER LOCATION #462**  
*Crystallographic Textures of Olivine in Artificial Cosmic Spherules Produced by Quick Quench Experiments*  
[#1697]  
Crystallization of olivine controls external and internal structures of cosmic spherules in rapid growth processes of quench crystals from chondritic materials.