

Thursday, March 21, 2013
POSTER SESSION: COMET WILD 2/STARDUST
6:00 p.m. Town Center Exhibit Area

[R702]

White A. J. Ebel D. S. Greenberg M. *POSTER LOCATION #14*
[*An Improved Experimental Deconvolution Technique for 3-Dimensional Laser Confocal Microscopy of Particles in Aerogel*](#) [#1630]

We present a method for imaging particles in aerogel. This work is adapted for samples returned by Stardust but can be applied to any future return samples.

Mohapatra R. K. Herrmann S. Westphal A. Ott U. Clark I. D. *POSTER LOCATION #15*
[*Stardust Aerogel — A Noble Gas Experiment*](#) [#2201]

Noble gas measurements have been performed on silica aerogel from the Stardust mission to explore possible cometary atmosphere sampled via low energy implantation.

Palma R. L. Pepin R. O. Westphal A. Schlutter D. Gainsforth Z. *POSTER LOCATION #16*
[*A Light Noble Gas Inventory of Stardust Cell C2044*](#) [#1084]

Helium and neon concentrations and isotopic compositions from Stardust cell C2044 track 41 and aerogel samples.

Ogliore R. C. Huss G. R. Nagashima K. Westphal A. J. *POSTER LOCATION #17*
[*Oxygen Isotope Analysis of Fine-grained Cometary Material from the Bulb of a Stardust Track*](#) [#2950]

We describe a SIMS technique to measure grains embedded in aerogel and report O-isotope measurements of 65 small grains from the bulb of a Stardust track.

Frank D. R. Zolensky M. E. Le L. Weisberg M. K. Kimura M. *POSTER LOCATION #18*
[*Highly Reduced Forsterite and Enstatite from Stardust Track 61: Implications for Radial Transport of E Asteroid Material*](#) [#3082]

We discuss the affinity of the track 61 TP to aubrites and the implications for radial transport mechanisms.

Croat T. K. Floss C. Sosothikul S. Stadermann F. J. Kearsley A. T. et al. *POSTER LOCATION #19*
[*FIB-TEM Investigations into the Condition of Refractory Presolar Phases Under Stardust-like Conditions*](#) [#2625]

FIB-TEM studies of Si-Ti carbide craters in Al show much surviving crystalline material, demonstrating that presolar SiCs should survive a Stardust-like impact.

Westphal A. J. De Gregorio B. Lettieri R. Frank D. R. Zolensky M. E. *POSTER LOCATION #20*
[*Community-Supported Stardust Compendia*](#) [#1686]

We present compendia for the Stardust cometary and interstellar dust collections. The compendia are readable globally and editable by Stardust investigators.