Lewis J. B. Isheim D. Floss C. Daulton T. L. Seidman D. N.  
**POSTER LOCATION #463**

*Nanodiamond Analysis Methods Compared for Consistency* [#1480]

We compare two atom-probe analysis procedures used to investigate the origins of meteoritic nanodiamonds. The results are roughly comparable but inconclusive.

Shatoff E. A. Meshik A. P. Pravdivtseva O. V.  
**POSTER LOCATION #464**

*Electrophoresis of Allende Nanodiamonds in Colloidal Solution* [#2688]

Electrophoresis of Allende nanodiamonds reveals two subpopulations with different susceptibilities to gravity.

Hoppe P. Leitner J. Kodolanyi J.  
**POSTER LOCATION #465**

*Abundances of O-Rich Presolar Grains in the Acfer 094 Meteorite Revisited* [#1315]

An automated search for O isotope anomalies in NanoSIMS images of Acfer 094 suggests adjustments to previously reported abundances of presolar grains.

Zega T. J. Haenecour P. Floss C. Stroud R. M.  
**POSTER LOCATION #466**

*Identification of Circumstellar Magnetite in the LAP 031117 CO3.0 Chondrite* [#2828]

We have identified presolar circumstellar magnetite in the LAP 031117 CO3.0 chondrite. We discuss its formation and astrophysical implications.

Croat T. K. Haenecour P. Floss C.  
**POSTER LOCATION #467**

*FIB-TEM Studies of a Presolar SiC and the Surrounding Matrix in a Primitive CO3.0 Chondrite* [#2135]

We present FIB-TEM results from a presolar SiC in CO3.0 meteorite LaPaz 031117 and characterize the surrounding matrix materials from three different FIB sections.

Kodolányi J. Hoppe P. Vollmer C. Müller M.  
**POSTER LOCATION #468**

*Isotopic and Structural Investigation of Presolar SiC Grains of Supernova Origin* [#1733]

We studied the isotope composition and structure of supernova-derived SiC grains from the Murchison carbonaceous chondrite.

Groopman E. Amari S. Gyngard F. Jadhav M. Lin Y. et al.  
**POSTER LOCATION #469**

* Isochrons and Al Contamination in Presolar Grains* [#1559]

Aluminium-//Magnesium isochrons//in presolar grains.

Yu T. Meyer B. S. Clayton D. D.  
**POSTER LOCATION #470**

*Condensation of Carbonaceous Dust in the Helium-Rich Supernova Shell* [#2803]

Network calculations that include breakup of CO by radioactive decay of $^{56}$Co produce carbonaceous dust grains roughly 1 µm in size in helium-rich matter.

Jadhav M. Nagashima K. Huss G. R.  
**POSTER LOCATION #471**

*Continued SIMS Trace Element Study of Presolar Graphite Grains* [#2882]

We present Sc, Rb, Sr, Y, Zr, and Nb trace-element data for low-density graphite grains from Orgueil and discuss correlations between the relative abundances.

Stephan T. Trappitsch R. Davis A. M. Pellin M. J. Rost D. et al.  
**POSTER LOCATION #472**

*Simultaneous Analysis of Strontium, Zirconium, and Barium Isotopes in Presolar Silicon Carbide Grains with CHILI* [#2825]

After more than five years of designing and building the Chicago Instrument for Laser Ionization (CHILI), we present the first analyses of presolar SiC grains.