

Tuesday, July 28, 2015

POSTER SESSION: PRESOLAR GRAINS AND ISOTOPIIC ANOMALIES

5:30 p.m. Hearst Memorial Mining Building (HMMB) Floor Two

Duprat J. Tatischeff V. de Séréville N.

[On the Nucleosynthetic Origin of \$^{10}\text{Be}\$ in FUN-CAIs](#) [#5204]

We investigated the different astrophysical scenarios to explain the ^{10}Be baseline concentration observed in FUN-CAI.

Sanborn M. E. Yin Q.-Z. Schrader D. L.

[Aqueous Alteration and Its Effect on \$\epsilon^{54}\text{Cr}\$: An Investigation of CR1 and CR2 Chondrites](#) [#5157]

We present the results of high-precision Cr isotopic measurements on a suite of CR1 and CR2 chondrites that span a broad range of oxygen isotopic composition and aqueous alteration histories to investigate the effect of alteration on $\epsilon^{54}\text{Cr}$ values.

Nittler L. R. Wang J. Alexander C. M. O'D. Hillion F.

[High-Spatial-Resolution Chromium Isotopic Measurements of Nano-Oxides from Orgueil](#) [#5232]

NanoSIMS search for / Supernova chromium / Better ion source helps.

Zega T. J. Haenecour P. Floss C. Stroud R. M.

[Circumstellar Magnetite Identified in the LAP 031117 CO3.0 Chondrite](#) [#5390]

We identified presolar magnetite in the LAP 031117 CO3.0 chondrite. We hypothesize that it formed via oxidation of previously condensed metal grains in its host circumstellar envelope.

Lewis J. B. Isheim D. Moutanabbir O. Floss C. Seidman D. N.

[Standardization and Correction of Artifacts in Atom-Probe Tomographic Analysis of Allende Nanodiamonds](#) [#5278]

We use complementary atom-probe tomography and secondary ion mass spectrometry to measure the $^{12}\text{C}/^{13}\text{C}$ isotopic ratios of meteoritic nanodiamonds and thus determine their origins. We are investigating and quantifying instrumental artifacts.

Clarke A. Lyon I. C. Henkel T.

[Combined TOF-SIMS and NanoSIMS Analysis of Gently Separated Presolar SiC Grains](#) [#5321]

Gently separated presolar SiC grains will be analysed in order to gain further understanding of the grain surfaces and coatings. TOF-SIMS and NanoSIMS will be used to provide a detailed analysis of the elemental/isotopic composition and distribution.