

Thursday, March 26, 2009  
POSTER SESSION II: METEORITE METHODOLOGY  
6:30 p.m. Town Center Exhibit Area

Pourmand A. Dauphas N.

[\*The Lu and Hf Isotopic Compositions of Meteorites: A Comparative Study of Alkali Flux Fusion and HF Parr Bomb Dissolution\*](#) [#2452]

We compare Lu and Hf isotopic compositions and concentrations of Allende standard material dissolved in HF Parr bombs and alkali flux fusion in high-purity graphite, glassy carbon and platinum crucibles. Results from 12 meteorites are also presented.

Patzer A. Pack A. Gerdes A.

[\*Determination of High-Precision Zr/Hf Ratios in Bulk Meteorites Using LA-ICP-MS\*](#) [#2522]

We will present high-precision Zr/Hf data of different meteorite classes.

Minnick M. A. Strait M. M. Flynn G. J. Durda D. D.

[\*Investigation of the Hydration of Anhydrous Chondrite Meteorites\*](#) [#2224]

The purpose of our investigation was to examine the possibility and effectiveness of hydrating bulk meteorites from anhydrous samples to be used for fragmentation studies currently examining the origin of interplanetary dust particles.

Beck A. W. McSween H. Y. Jr. Mittlefehldt D. W. Lee C.-T. A.

[\*Fused Bead Analysis in Diogenite Meteorites\*](#) [#1177]

This study examines the accuracy of fused bead analysis in diogenites. We find elemental heterogeneity in the beads along with the presence of quench crystals. These findings suggest that fused bead cannot be used to accurately determine bulk chemistry of diogenites.

Shirai N. Humayun M. Irving A. J.

[\*The Bulk Composition of Coarse-grained Meteorites from Laser Ablation Analysis of their Fusion Crusts\*](#) [#2170]

We determined elemental abundances for an angrite, NWA 4590, and a shergottite, NWA 4468, from laser ablation analysis of broad areas of their fusion crusts.