

Tuesday, March 22, 2016

[T335]

## POSTER SESSION I: CHONDRITES: NEW, MINOR AND RARE COMPONENTS

6:00 p.m. Town Center Exhibit Area

MacPherson G. J. Lin C. Hollister L. S.

Bindi L. Andronicos C. L. et al.

POSTER LOCATION #527

[\*The Khatyrka Meteorite: A Summary of Evidence for a Natural Origin of Its Remarkable Cu-Al\*](#)[\*Metal Alloys\*](#) [#2655]

We summarize all of the arguments for and against a natural origin for Cu-Al alloys in the Khatyrka CV3 chondrite, and conclude the alloys are natural.

Nakanishi N. Yokoyama T. Usui T. Iwamori H.

POSTER LOCATION #528

[\*Re-Os Isotope Systematics and Fractionation of Siderophile Elements in Metal Phases from CB Chondrites\*](#) [#1788]

We report in-situ Os isotope data in CB metals for understanding of high temperature processes during metal formation.

Ma C. Beckett J. R.

POSTER LOCATION #529

[\*Burnettite, Ca<sub>2</sub>AlSiO<sub>6</sub>, and Paqueite, Ca<sub>3</sub>TiSi<sub>2</sub>\(Al<sub>2</sub>Ti\)O<sub>14</sub>, Two New Minerals from Allende: Clues to the Evolution of a V-Rich Ca-Al-Rich Inclusion\*](#) [#1595]

Two new refractory minerals, burnettite and paqueite, have been discovered as micron-sized crystals within melilite in a V-rich, fluffy Type A CAI in Allende.

Ma C. Paque J. Tschauner O.

POSTER LOCATION #530

[\*Discovery of Beckettite, Ca<sub>2</sub>V<sub>6</sub>Al<sub>6</sub>O<sub>20</sub>, a New Alteration Mineral in a V-Rich Ca-Al-Rich Inclusion from Allende\*](#) [#1704]

We present a new vanadium aluminate mineral, beckettite, from a V-rich Type A CAI in Allende and discuss its origin and implications for alteration processes.

Zolotov M. Yu.

POSTER LOCATION #531

[\*Formation of Sulfates on Parent Bodies of Carbonaceous Chondrites, Ceres, Europa, and Other Icy Bodies\*](#) [#1778]

Formation of sulfates is explained by accretion of irradiated water ices containing strong oxidants (O<sub>2</sub>, H<sub>2</sub>O<sub>2</sub>) and oxidized sulfur species (H<sub>2</sub>SO<sub>4</sub> and SO<sub>3</sub>).

Mikouchi T. Hagiya K. Sawa N. Kimura M. Ohsumi K. et al.

POSTER LOCATION #532

[\*Synchrotron Radiation XRD Analysis of Indialite in Yamato-82094 Ungrouped Carbonaceous Chondrite\*](#) [#1919]

We performed SR-XRD on a cordierite-like phase in Al-rich chondrule of Y-82094 ungrouped C chondrite and revealed that it is a high-T polymorph (indialite).

Walker B. W. Hu J. H. Sharp T. S.

POSTER LOCATION #533

[\*Feldspar-Chromite Mineral Assemblages in Ordinary Chondrites\*](#) [#1806]

The purpose is to determine possible origins of these chromite-plagioclase intergrowths and test the hypothesis that they result from shock metamorphism.

Hutson M. L. Ruzicka A. M. Farley K. R.

Schepker K. L. Hugo R. C. et al.

POSTER LOCATION #534

[\*Carbides in Ordinary Chondrites Revisited\*](#) [#1377]

We report the results of a combined EMP, SEM, EBSD, and TEM study on H- and L- chondrites to constrain the occurrence and origin of carbides in such meteorites.