

Tuesday, July 28, 2015

POSTER SESSION: CAIS AND OTHER REFRACTORY MATERIALS

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

Shornikov S. I.

[*Thermodynamics of Ca-Al-Inclusion's High-Temperature Minerals*](#) [#5017]

To clarify the effect of temperature on the CAI formation the oxide activities, temperature dependences of partial pressures of vapor species and the gas phase composition over the most refractory CAI minerals were considered at 1600–2500 K.

Mishra R. K. Simon J. I. Ross D. K. Keller L. P. Marhas K. K. Needham A. W.

[*A Refractory Inclusion in Unequilibrated Ordinary Chondrite \(LL3.3\) Allan Hills A81251*](#) [#5139]

An initial petrologic study of a refractory inclusion in the unequilibrated ordinary chondrite (LL3.3) Allan Hills A81251.

Krot A. N. Nagashima K. Ma C. Wasserburg G. J.

[*Forsterite-Bearing Type B CAI with a Relict Eringaite-Bearing Ultra-Refractory CAI*](#) [#5308]

Forsterite-bearing Type B CAI from the Allende CV3 chondrite contains a relict eringaite-bearing ultra-refractory inclusion composed of ^{16}O -rich spinel, Y-bearing perovskite, eringaite $[\text{Ca}_3(\text{Sc}, \text{Y}, \text{Ti})_2\text{Si}_3\text{O}_{12}]$, and Sc-rich pyroxene.