

Tuesday, July 28, 2015

POSTER SESSION: VOLATILES IN THE SOLAR SYSTEM

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

Meier M. M. M. Cloquet C. Marty B.

[*Making Sense of Mercury Isotopic and Abundance Variations in Meteorites*](#) [#5021]

We report variations in abundance and isotopic composition of Hg in meteorites and discuss a model of parent body Hg evaporation and re-condensation to explain these variations.

Buikin A. I. Hopp J. Lorenz C. A. Trieloff M.

[*Noble Gas Isotope Composition and Elemental Ratios in Pesyanoe Aubrite: Stepwise Crushing Data*](#) [#5110]

The first stepwise crushing light noble gas data on two pyroxenite lithologies of Pesyanoe aubrite suggest that both lithologies experienced different magmatic and post-magmatic (including impact and irradiation) histories on their parent body.

Amari S. Meshik A.

[*Noble Gas Analysis of Q-Rich Fractions from Saratov \(L4\)*](#) [#5213]

We carried out colloidal and density separations to a Saratov (L4) residue, and measured noble gases in the separated fractions. Q is most enriched in the fraction AO (2.11–2.16 g/cm³), suggesting that Saratov Q is different from Allende Q.

Kuhlman K. R. Poplawsky J. D. Hiroi T. Baba K.

[*Atom Probe Tomography and Visible/Near-Infrared Spectral Analysis of Simulated Solar Wind Hydrogen Implanted Olivine*](#) [#5034]

We present the results of the first atom probe tomography (APT) and visible/near-infrared (VNIR) spectral study of a sample of San Carlos olivine (Fo90.1) exposed to simulated space weathering due to hydrogen at solar wind energy (~1keV/amu).