

Tuesday, March 19, 2013

[T604]

POSTER SESSION: EARLY SOLAR SYSTEM CHRONOLOGY**6:00 p.m. Town Center Exhibit Area**

Myojo K. Yokoyama T. Sano Y. Takahata N. Sugiura N. **POSTER LOCATION #37**
[Strontium Isotope Anomalies and \$^{26}\text{Al}\$ - \$^{26}\text{Mg}\$ Chronology in CAIs from CV Chondrites](#) [#2626]

We present Sr-isotopic data and Al-Mg ages for CAIs from CV chondrites. The result suggests $^{84}\text{Sr}/^{86}\text{Sr}$ heterogeneity due to location in the early solar system.

Bell E. A. Gilmour J. D. Harrison T. M. Turner G. Crowther S. A. **POSTER LOCATION #38**
[Origins of Pu/U Variations in >4 Ga Terrestrial Zircons](#) [#2313]

Xenon in >4 Ga zircons yields estimates of original Pu/U that deviate from chondritic estimates. Xenon loss is resolved for some; other causes are less certain.

Cooke I. Sapah M. S. Kaltenbach A. Stirling C. H. Amelin Y. **POSTER LOCATION #39**
[Uranium Isotopic Composition and Trace Element Abundances of CAIs from CV Chondrite Northwest Africa 4502](#) [#1709]

We have initiated a study of the new oxidised CV chondrite NWA-4502 to help reconcile inconsistencies between recently reported ages of CAIs.

Andreasen R. Lapen T. J. **POSTER LOCATION #40**
[The Absolute Neodymium Isotopic Composition of Standard Materials — Implications for Accurate and Precise 142-Neodymium Measurements and Chronology](#) [#2918]

The stable Nd-isotopic compositions of standard materials vary by 1.5 ϵ per amu. Variations are observed for both synthetic and natural standards.

Parai R. Jacobsen S. B. Huang S. **POSTER LOCATION #41**
[Strontium Isotopic Constraints on Early Solar System Chronology](#) [#2544]

Precise determination of instrumental mass fractionation laws are necessary to constrain the age of formation of planetary objects, such as the Moon.

Theis K. J. Schönbächler M. **POSTER LOCATION #42**
[Palladium-Silver Ages of the Ordinary Chondrite Allegan \(H5\) and Acapulcoite Dhofar 125 and Related Stable Isotope Fractionation](#) [#2051]

Using the short-lived Pd-Ag chronometer to infer a resetting event for Allegan and early Pd-Ag closure for Dhofar 125 followed by stable isotope fractionation.

Matthes M. Fischer-Gödde M. Kleine T. **POSTER LOCATION #43**
[Palladium-Silver Isotope Systematics of IIIAB Iron Meteorites](#) [#2780]

We analyzed the Ag-isotopic composition of the IIIAB irons Grant and Cape York to improve the resolution of their cooling history in the early solar system.

Telus M. Huss G. R. Nagashima K. Ogliore R. C. **POSTER LOCATION #44**
[Initial Abundance of \$^{60}\text{Fe}\$ in Unequilibrated Ordinary Chondrites](#) [#2964]

New results for SIMS measurements of ^{60}Fe - ^{60}Ni systematics of chondrules from UOCs are reported. Implications for the $(^{60}\text{Fe}/^{56}\text{Fe})_0$ ratio of UOCs are discussed.

Chen H. Bishop M. C. Humayun M. Williams J. T. Moynier F. **POSTER LOCATION #45**
[Cosmogenic Effects on Cu Isotopes in IVB Irons: Implications for the 182Hf-182W Chronometry](#) [#1909]

Cu isotopes in IVB irons are affected by cosmic ray exposure. Cu isotopes can be used for correcting neutron capture induced shifts in W isotopes.

Claydon J. L. Ruzicka A. Crowther S. A. Lee M. Y. P. Bischoff A. et al. **POSTER LOCATION #46**
[First I-Xe Ages of Rumuruti Chondrites and the Thermal History of Their Parent Body](#) [#2211]

Xe closure occurred 4556–4548 Myr ago, ~5 Myr after the Mn-Cr system. The R5 sample is young compared to the R3 samples, consistent with the onion shell model.

Iizuka T. Kaltenbach A. Amelin Y. Stirling C. H. Yamaguchi A. **POSTER LOCATION #47**
[U-Pb Isotope Systematics of Eucrites in Relation to Their Thermal History](#) [#1907]

We present the first combined high-precision $^{238}\text{U}/^{235}\text{U}$ - and Pb-isotopic data for eucrites, including Camel Donga, Agoult, DAG 380, NWA 049, and Ibitira.

Bricker G. E. Caffee M. W. **POSTER LOCATION #48**
[Incorporation of the Short-Lived Radionuclide \$^{36}\text{Cl}\$ Into Calcium Aluminum Inclusions in the Solar Wind Implantation Model](#) [#1722]

We consider ^{36}Cl in CAIs in primitive carbonaceous meteorites in accordance with a solar wind implantation model.

Beard S. P. Swindle T. D. Isachsen C. Jenniskens P. Shaddad M. **POSTER LOCATION #49**
[Ar-Ar Analysis of Almahata Sitta Ordinary Chondrites](#) [#2311]

Ar-Ar analyses of two ordinary chondrite fragments from the Almahata Sitta breccia reveal no evidence for any thermal events more recent than 4150 Ma.

Doyle P. M. Nagashima K. Jogo K. Krot A. N. **POSTER LOCATION #50**
[Relative Sensitivity Factor Defined for \$^{53}\text{Mn}\$ - \$^{53}\text{Cr}\$ Chronometry of Secondary Fayalite](#) [#1792]

Matrix-matched standards are required for accurate ^{53}Mn - ^{53}Cr chronometry. We have prepared synthetic fayalite in order to date secondary fayalite in chondrites.