

Thursday, March 23, 2017
POSTER SESSION II: CHONDRITES: WHOLE ROCKS AND CLASTS
6:00 p.m. Town Center Exhibit Area

[R613]

Srinivasan P. McCubbin F. M. Lapen T. J. Righter M. Agee C. B. **POSTER LOCATION #259**
[Reassessing the Formation of CK7 Northwest Africa \(NWA\) 8186](#) [#1995]

We present bulk REE abundances in NWA 8186 and U-Pb ages to assess the relationship between NWA 8186, CK3-6 chondrites, and the CK parent body.

Jacquet E. Caste F. Barrat J.-A. Beck P. Gattacceca J. et al. **POSTER LOCATION #260**
[Northwest Africa 5958: A Weakly Altered C2 Ungrouped Chondrite](#) [#1016]

We present a mutlitechnique study of the carbonaceous chondrite NWA 5958, originally classified as a unique C3.0-UNG, and suggest reclassification as a C2-UNG.

Abreu N. M. Friedrich J. M. Crispin K. **POSTER LOCATION #261**
[Understanding the Origin and Distribution of Primary Phases in CM Chondrites: Weakly Altered CMs from LaPaz Fields, LAP 04514, LAP 04527, LAP 04565, and LAP 02333](#) [#2935]

Indicators of aqueous alteration and thermal metamorphism show that LAP 04514, LAP 04527, LAP 04565, and LAP 02333 have undergone very limited secondary alteration.

Dionnet Z. Aléon-Toppani A. Borondics F. Brunetto R. **POSTER LOCATION #262**
 Djouadi Z. et al.
[Non Destructive IR Micro-Imaging of the Paris Meteorite](#) [#1466]

With FTIR micro-imaging experiments, we measured the spatial distribution of chemical components and the correlation between them of the Paris meteorite.

Greber N. D. Dauphas N. **POSTER LOCATION #263**
[The Titanium Isotopic Compositions of Chondrites, Aubrites, and the Moon](#) [#2837]

The Ti isotope compositions of ordinary, enstatite, and carbonaceous chondrites, aubrites, and a lunar KREEP-rich impact melt breccia are presented.

Maeda R. Shirai N. Ebihara M. **POSTER LOCATION #264**
[Distribution of REEs, Th, and U in R Chondrite](#) [#2370]

Distribution of REEs, Th, and U in R chondrite was investigated for the goal of discussion of formation process and/or metamorphism of R chondrite.

Greeley K. L. Ebel D. S. **POSTER LOCATION #265**
[Trace Element Abundances in Components of Ordinary Chondrites](#) [#2845]

Glass and minerals in chondrules from LL 3.00 chondrite Semarkona have consistent rare earth element contents across chondrule FeO enrichment and texture types.

Utas J. A. Rubin A. E. Ziegler K. **POSTER LOCATION #266**
[Northwest Africa 10085: An Equilibrated Kakangari Chondrite](#) [#2906]

NWA 10085 is a new, equilibrated Kakangari chondrite with unusual textural features also seen in some EL-chondrites.

Kuzina D. M. Nurgaliev D. K. Gareev B. I. Batalin G. A. **POSTER LOCATION #267**
 Silantev V. V. et al.
[Investigations of Different Types of Meteorites Using X-Ray Fluorescence and Computed X-Ray Tomography](#) [#2593]

In the work shown, investigation results of various meteorites by nondestructive methods: Elements distribution on surface and inclusions with different density.

Dunn T. L. King A. J. **POSTER LOCATION #268**
[XRD-Derived Modal Abundances of CK Carbonaceous Chondrites](#) [#2443]

Mineralogy / The same in CK chondrites / All except for Hart.

Hoare L. Schmieder M. Kring D. A. **POSTER LOCATION #269**
[LL-Chondrite Northwest Africa 6813: Sampling an Impact-Cratered Asteroid](#) [#1337]

A melt-bearing impact breccia containing clasts of heterogeneous petrologic type, thought to have formed within the structural floor of an impact crater.

Kuehner S. M. Irving A. J. Sipiera P. P. Hollis C. M. **POSTER LOCATION #270**
[Petrology, Mineralogy, and Magnetic Susceptibility of Large EL4 Enstatite Chondrite Northwest Africa 10952](#) [#2047]

We describe features of the largest known 17 kilogram EL4 chondrite meteorite.

Kuehner S. M. Irving A. J. Sipiera P. P. Jonikas A. **POSTER LOCATION #271**
[Petrology of Rare Melt-Textured, Metal-Poor Clasts in LL6 Chondrite Breccia Northwest Africa 10565](#) [#2037]

Unusual melt-textured clasts in a chondrite breccia may include some exotic to the LL chondrite parent body.

Ebert S. Bischoff A. Harries D. Barrat J.-A. Pack A. et al. **POSTER LOCATION #272**
[Northwest Africa 11024 – The First CM3 Chondrite or a Dehydrated Anomalous Carbonaceous Chondrite?](#) [#1903]

NWA 11024 is a unique chondrite and has textural characteristics similar to CM chondrites but has no preserved hydrous phases or carbonate grains.

Choi J. Nagao K. Baek J. M. Bartoschewitz R. Park C. et al. **POSTER LOCATION #273**
[Noble Gas Compositions of Seven CV, CO, and CK Chondrites from Deserts](#) [#1852]

Noble gas of seven carbonaceous meteorites including CV, CO, and CK is studied for their noble gas isotopic compositions, trapped components, and CRE ages.

Hutson M. L. Ruzicka A. M. **POSTER LOCATION #274**
[Miller Range 07273: An unusual Chondritic Melt Breccia](#) [#2942]

Ordinary chondrite melt breccias are a rare but potentially important rock type. We describe one such rock and implications for origin.

Cato M. J. Simon J. I. Ross D. K. Morris R. V. **POSTER LOCATION #275**
[Examination of Multiple Lithologies Within the Primitive Ordinary Chondrite NWA 5717](#) [#1687]

Swirly swirl / Chondrules mixed together / But did they really?

McGraw L. E. Jean M. M. Emery J. Podgornykh N. M. Taylor L. A. **POSTER LOCATION #276**
[Novosibirsk Meteorite: An FeNi-Rich, Highly Shocked H5 Ordinary Chondrite](#) [#2460]

The Novosibirsk meteorite is a metal-rich, highly shocked ordinary chondrite with two regions: A metal-rich splash melt and silicate-rich H5 ordinary chondrite.

Higashi K. Hasegawa H. Mikouchi T. Zolensky M. E. **POSTER LOCATION #277**
[Brachinite-Like Clast in the Kaidun Meteorite: First Report of Primitive Achondrite Material](#) [#1874]

We report mineralogy of a unique achondritic clast in Kaidun, mainly composed of Fe-rich olivine with reduction rims. This clast is most similar to brachinites.

Alpert S. A. Ebel D. S. Weisberg M. K. **POSTER LOCATION #278**
[Opaque Nodules in Unequilibrated Ordinary Chondrites](#) [#2755]

Fe, Ni, S / Nodules in chondrites contained / Accrete distinctly.

Ruzicka A. M. Schepker K. L. Guan Y.

POSTER LOCATION #279

[Trace Element Compositions Bearing on the Origins of Large Igneous Inclusions in Ordinary Chondrites](#) [#2477]

Large igneous inclusions in ordinary chondrites are enigmatic. We discuss SIMS results that suggest complex, multistage processing for these objects.

Buchanan P. C. Zolensky M. E. Weisberg M. K. Hagiya K.

POSTER LOCATION #280

Mikouchi T. et al.

[Oriented Mineral Transformation in a Dark Inclusion from the Leoville Meteorite](#) [#2157]

This study describes and discusses an oriented transformation of Ca-, Fe-rich silicates in a dark inclusion from the Leoville meteorite.