

Monday, March 19, 2018

[M152]

DIFFERENTIATED METEORITES I: A PLAYLIST OF PARENT BODIES**2:30 p.m. Waterway Ballroom 4**

**Chairs: Nicole Lunning
Carl Agee**

- 2:30 p.m. Hidaka H. * Yoneda S. Lee S.-G.
[La-Ce Chronometry of Euclrites and Diogenites](#) [#1842]
¹³⁸La-¹³⁸Ce decay system has been applied for chronological study of euclrites and diogenites.
- 2:45 p.m. Iizuka T. * Jourdan F. Koefoed P. Hibiya Y. Amelin Y. et al.
[Thermal History of Basaltic Euclrites as Recorded by Lead and Argon Isotopes](#) [#1913]
We report Pb and Ar isotopic dating of four basaltic euclrites. The results are used to constrain their complex thermal history involving high-T metamorphism.
- 3:00 p.m. Tissot F. L. H. * Collinet M. Dauphas N. Grove T. L.
[Establishing the Liquid Phase Equilibrium of Angrites to Constrain Their Petrogenesis](#) [#2937]
We investigate the phase equilibrium of some quenched angrites to determine the saturation boundary, and the P-T conditions, at relevant compositions and f_{O_2} .
- 3:15 p.m. Hayashi H. * Takenouchi A. Mikouchi T. Bizzarro M.
[Shock Metamorphism of the Northwest Africa 7203 Angrite](#) [#1932]
We found a remarkable texture of shock metamorphism in NWA 7203 angrite, suggesting some angrites might remain as big asteroids during late heavy bombardment.
- 3:30 p.m. Collinet M. * Grove T. L.
[Ureilite Parent Body Igneous Processes and Bulk Composition: Constraints from Plagioclase Stability During Partial Melting of Chondritic Materials](#) [#1841]
Ureilites could have formed by fractional melting of chondrites with low CAI and high alkali contents, from which plagioclase disappeared rapidly.
- 3:45 p.m. Ray S. * Wadhwa M. Rai V. K.
[The Origin of Metal Grains from Enstatite Achondrites Based on Iron Isotope Compositions](#) [#2140]
Based on the iron isotope composition of Si-rich and Si-poor metal grains from several aubrites, their origin has been discussed.
- 4:00 p.m. Crossley S. D. * Ash R. D. Sunshine J. M. McCoy T. J. Corrigan C. M.
[Olivine-Dominated Achondrites Record Multiple Trends of Differentiation](#) [#2540]
"Brachinite-like" rocks / A collection of many / Different parents.
- 4:15 p.m. Agee C. B. * Habermann M. A. Ziegler K.
[Northwest Africa 11575: Unique Ungrouped Trachyandesite Achondrite](#) [#2226]
We report here on unique achondrite, NWA 11575, with trachyandesite bulk composition and oxygen isotopes plotting within the LL-ordinary chondrite field.
- 4:30 p.m. Lunning N. G. * Bischoff A. McCoy T. J. Corrigan C. M.
[Melt Clasts in R Chondrites: Indigenous and Foreign](#) [#1552]
Potential melt formation mechanisms for plagioclase-rich achondrites demonstrated in igneous-textured clasts in R chondrite breccias.