

Thursday, July 27, 2017
POSTER SESSION II: ORIGIN AND EVOLUTION OF THE MOON
5:30 p.m. Poster Area

Wang Y. Hsu W.

[SIMS Pb-Pb Dating of Phosphates in the Lunar Meteorite Northwest Africa 4734](#) [#6187]

To better our understanding on the late lunar impact history after the period of “late heavy bombardment”, *in situ* U-Pb dating of phosphates was performed in a relatively young (~3.0 Ga) mare basalt NWA 4734. Here are the preliminary results.

Roberts S. E. McCanta M. C. Jean M. M. Taylor L. A.

[Northwest Africa 10986: A Complex Lunar Highlands Breccia](#) [#6110]

NWA 10986 is a new lunar highlands breccia that represents the complete highland lithologies in addition to possible cryptomare.

Korotev R' L.

[Is Lunar Meteorite Kalahari 009 Brecciated Nonmare Basalt or Impact Melt?](#) [#6034]

Is lunar meteorite Kalahari 009 brecciated nonmare basalt or impact melt?

Demidova S. I. Anosova M. O. Brandstätter F. Ntaflou Th.

[P-Bearing Olivines from the Luna-16 Site](#) [#6060]

P-bearing olivine is an extremely rare phase in lunar rocks. Its presence was recently noted in lunar samples and meteorites. Here we report about Luna-16 rocks containing P-bearing olivine and its trace element composition.

Hewson K. Tait K. T. Di Cecco V. Nicklin I.

[The Classification of Lunar Meteorite Northwest Africa 11223](#) [#6328]

Meteorite NWA 11223 (Royal Ontario Museum accession number M57543) is a polymict feldspathic lunar breccia found in southern Morocco in 2016. The sample was described using polarized light microscopy and EMPA.

Christoffersen R. Simon J. I. Ross D. K.

[Evolved-Lithology Clasts in Lunar Breccias: Relating Petrogenetic Diversity to Measured Water Content](#) [#6361]

We report a synthesis of the petrogenetic diversity of lithologically-evolved clasts in lunar breccias, including true granites, quartz monzodiorites and K-enriched basalts, in relation to their feldspar water contents as determined by SIMS.