

Tuesday, August 9, 2016
DISTAL IMPACT EJECTA
1:30 p.m. Room B

Chairs: Luigi Folco
Jayanta Pati

- 1:30 p.m. Mohr-Westheide T. * Greshake A. Wirth R. Reimold W. U. Fritz J.
[Transmission Electron Microscope Study of Platinum Group Element-Rich Micronuggets from Two Spherule Layer Intersections, Barberton Greenstone Belt, South Africa](#) [#6186]
 New results of a comprehensive transmission electron microscope (TEM) study including microstructural and chemical analyses of three submicrometer sized, primary PGE metal nuggets in Archean spherule layer material from the Barberton Mountain Land.
- 1:45 p.m. Schulz T. Koeberl C. * Luguet A. van Acken D. Reimold W. U. Mohr-Westheide T.
[Paleoarchean Spherule Beda in the ICDP BARB5 Drill Core from the Barberton Greenstone Belt, South Africa: Geochemistry, Highly Siderophile Elements Systematics, and Os Isotopic Signatures](#) [#6513]
 Chemical and isotopic studies on Early Archean Barberton spherule beds from the ICDP BARB5 core confirm the presence of a meteoritic signature.
- 2:00 p.m. Luais B. * Fritz J. Hofmann A. Mohr-Westheide T. Reimold W. U. Koeberl C.
[Germanium Elemental and Isotopic Tracing of ca 3.2 Ga Impact Spherule Layers from the Barberton Greenstone Belt \(South Africa\)](#) [#6358]
 The 3.23 Ga spherule layers in BARB5 drill core from the Barberton Greenstone Belt (ICDP 2012-2013, South Africa) have high Ge contents and light Ge isotopic signature that agree with an evaporation-condensation mechanism following the impact.
- 2:15 p.m. Ozdemir S. * Schulz T. Koeberl C. Reimold W. U. Mohr-Westheide T. Hofmann A.
[Paleoarchean Spherule Beds in the CT3 Drill Core from the Barberton Greenstone Belt, South Africa: Geochemistry and Os Isotopic Signatures](#) [#6194]
 Archean spherules are important to understand the early Earth's impact history. We performed detailed petrographic, geochemical and Os isotope analysis to obtain possible meteoritic components on spherule layers from Barberton Greenstone Belt.
- 2:30 p.m. Guyett P. C. * Petrus J. A. Kamber B. S.
[Ni-, Cr- and PGE Rich Vitric Products Found in Distal Ejecta: New Data from the Stac Fada Member, Scotland](#) [#6389]
 In this study we suggest different origins for two distinct melt products found in the 1.18 Ga Stac Fada Member ejecta layer. We propose that the magnesian melt product contains siderophile elements from the impactor.
- 2:45 p.m. Folco L. * Glass B. P. D'Orazio M. Gattacceca J. Rochette P.
[Searchin for an Impactor Signature in Australasian Microtektites](#) [#6422]
 We reassess here the possible presence of impactor contamination in Australasian microtektites and discuss its geographical distribution in the strew nfield.