

Tuesday, July 28, 2015

**POSTER SESSION: DEVELOPMENTS IN ADVANCED TECHNIQUES FOR  
METEORITE AND RETURNED SAMPLE ANALYSIS****5:30 p.m. Hearst Memorial Mining Building (HMMB) Floor One**

Souders A. K. Yin Q.-Z. Amelin Y.

[Exploring the Limits of Hf Isotopic Analysis by Single-Collector, Sector Field ICP-MS](#) [#5168]A new solution ICP-MS technique to measure Hf isotope compositions in materials with low ( $\ll$  ng/g) Hf concentrations.

Dunn T. L.

[Classification of Chondritic Meteorites Using Micro-XRF Spectroscopy](#) [#5378]

Here we examine micro-XRF spectroscopy as a new tool in classification of chondritic meteorites.

Nagaoka H. Hasebe N. Kusano H. Naito M. Shibamura E. Kuno H. Kim K. J.

Lopes J. A. M. Martínez-Frías J.

[Current Status of Development for Active X-Ray Fluorescence Spectrometer for Future Planetary Missions](#) [#5182]

We report current status of development for Active X-ray Spectrometer for the embarkation to future planetary roving and/or sample-returned missions.

Fries M. Calaways M. Evans C. McCubbin F.

[Advanced Curation: Solving Current and Future Sample Return Problems](#) [#5379]

Advanced Curation is a wide-ranging and comprehensive research and development effort at NASA Johnson Space Center that identifies and remediates sample related issues.

Hildebrand A. R. Hanton L. T. J. Rankin M. Ibrahim M. I.

[An Asteroid Regolith Simulant for Hydrated Carbonaceous Chondrite Lithologies \(HCCL-1\)](#) [#5368]

Physical properties are described of a simulant (HCCL-1) manufactured to represent carbonaceous asteroid surface regoliths for testing artificial activities such as sampling, or both natural and artificial impact and explosion responses.