

Saturday, November 1, 2014
AFTERNOON SESSION
1:30 p.m. Conference Room One

Chairs: Ulrich Ott
Timothy Jull

- 13:30 Oshtrakh M. I. * Maksimova A. A. Goryunov M. V. Yakovlev G. A. Petrova E. V.
Larionov M. Yu. Grokhovsky V. I. Semionkin V. A.
[Mössbauer Spectroscopy with a High Velocity Resolution: Advances in the Study of Meteoritic Iron-Bearing Minerals](#) [#4006]
We demonstrate advances of various applications of Mössbauer spectroscopy with a high velocity resolution in the study of various iron-bearing minerals in various meteorites.
- 13:50 Moyano-Cambero C. E. * Trigo-Rodríguez J. M. Bischoff A. Mestres N.
[Raman and SEM-EDS Study of Chelyabinsk LL5-6 Chondrite Breccia](#) [#4008]
In this study we use Scanning Electron Microscopy (SEM) plus Energy Dispersive X-Ray Spectroscopy (EDS), together with micro Raman spectroscopy, to analyze two thin sections of samples recovered after the Chelyabinsk superbolide.
- 14:10 Povinec P. P. * Jull A. J. T.
[Radiometric and AMS Analysis of Cosmogenic Radionuclides in Meteorites](#) [#4011]
We review the use of both gamma-ray spectroscopy and accelerator mass spectrometry in the measurement of cosmogenic radionuclides in extraterrestrial materials.
- 14:30 BREAK
- 14:50 Nagy Sz. Gyollai I. * Gucsik A. Bérczi Sz.
[Investigation of Ringwoodite Aggregate Textures in Shock Veins](#) [#4005]
We review five different ringwoodite aggregate textures in NWA 5011 meteorite.
- 15:10 Fintor K. Nagy Sz. * Walter H. Pál-Molnár E. Krot A. N.
[First Observation of Dmisteinbergite in Meteorites: Implication for Hydrothermal Origin Inside of Parent Body](#) [#4010]
We present the first observation of dmisteinbergite in carbonaceous chondrite of NWA 2086.
- 15:30 Gyollai I. * Krebsz M. Kereszturi Á. Bérczi Sz. Gucsik A.
[FTIR-ATR Spectroscopy of Shock Vein in Mocs L6 Chondrite](#) [#4002]
Our study introduces FTIR-ATR microscopy that can be used in planetary science, especially for study shocked meteorites. Moreover, we suggest mineral standards (shocked and unshocked olivine, feldspar) for this method.
- 15:50 Vizi P. G. * Bérczi Sz. Horváth I. Horváth A. F. Vizi J. Cs.
[Modern Analytical Methods Applied to Earth and Planetary Sciences for Micro, Nano and Pico Space Devices and Robots in Landing Site Selection and Surface Investigation](#) [#4007]
Fleet of Nano and Pico Sized Space Devices and Robots (NPSDR) are deployable to realize and accomplish in situ modern analytical methods in wide range of Earth and planetary sciences. Shorter time and bigger field of surfaces and volumes of space.
- 16:10 Gucsik A. * Nishido H. Ninagawa K. Gyollai I. Izawa M. Kereszturi A.
[Cathodoluminescence Microscopy and Spectroscopy of Forsterite from the Tagish Lake Meteorite: An Implication for the Luminescence-Based Astromineralogy](#) [#4014]
Scanning electron microscope-cathodoluminescence properties of the Tagish Lake meteoric forsterite has been discussed in this study emphasizing its application to the luminescence-based laboratory astromineralogy.

16:30 BREAK

16:50 Discussions Led by Dr. Akos Kereszturi from Hungarian Academy of Sciences
(Topics: Meteoritics, Cosmochemistry, Planetary Sciences, Educational Outreach, Modern Analytical Methods Applied to the Earth and Planetary Sciences in Hungary, etc.)