

Friday, November 10, 2017
AFTERNOON SESSION
2:00 p.m.

Chairs: **Arnold Gucsik**
Michael Oshtrakh

- 2:00 p.m. Molnar M. * Jull A. J. T. Major I. Hubay K. Janovics R.
[Using the Gas Ion Source Coupled to a MICADAS 200kV AMS for ¹⁴C Measurements on Very Small Samples: From Meteorites to Tree Rings](#) [#6018]
We summarize the use of a gas ion source for analysis of samples down to 10 µg C using a small AMS system.
- 2:15 p.m. Maksimova A. A. Chukin A. V. Petrova E. V. Oshtrakh M. I. *
[Fe²⁺ Partitioning Between the M1 and M2 Sites in Silicate Phases from Some Stony and Stony-Iron Meteorites Studied Using X-Ray Diffraction and Mössbauer Spectroscopy](#) [#6009]
In this work we present the results of our approach to estimate the Fe²⁺ cations distribution between two nonequivalent sites in silicates using XRD and Mössbauer spectroscopy with a high velocity resolution.
- 2:30 p.m. Chargazia K. * Kharshiladze O. Zimbardo G. Rogava J.
[Data Analysis and Simulation of Plasma Flow Vortices in the Magnetotail](#) [#6015]
Ulf electromagnetic planetary waves can self-organize into vortex structures. They are often detected in the plasma media. Large scale vortices may correspond to the injection scale of turbulence.
- 2:45 p.m. Vizi P. G. * Horvath A. F. Berczi Sz.
[Streaming Swarm of Nano Space Probes for Modern Analytical Methods Applied to Planetary Science](#) [#6012]
Streaming swarms gives possibilities to collect data from big fields in one time. The whole streaming fleet possible to behave like one big organization and can be realized as a planetary mission solution with stream type analytical methods.
- 3:00 p.m. Kereszturi A. * Duvet L. Grof Gy. Gyenis A. Gyenis T. Kovacs B. Maros Gy.
[Concept and Breadboard of the Planetary Borehole-Wall Imager](#) [#6002]
A subsurface imaging device to scan the internal wall of drilled boreholes is being developed to support the Earth analogue tests of ExoMars Rover's drilling activity.
- 3:15 p.m. Gucsik A. * Veres M. Himics L. Rigó I.
[Characterization of the Ground Paprika Samples Using Raman Spectroscopy](#) [#6020]
Micro-Raman spectroscopy as a powerful technique can be used in food industry, especially in the ground pepper or paprika characterization in order to determine the paprika sample's origin as well as their quality.
- 3:30 p.m. *Break*