

Tuesday, July 24, 2018

**POSTER SESSION I: SPECIAL SESSION: DEDICATED TO THE FAMOUS
METEORITE FALLS IN RUSSIA (TUNGUSKA, CHELYABINSK)**

5:30 p.m. Foyer

Walton C. R. Černok A. Anand M.

[*The Formation and Shock-History of Phosphate Minerals in Chelyabinsk \(LL5\)*](#) [#6011]

Chelyabinsk (LL5) records a high energy impact in the form of shock melt veins (SMVs). Study of the textural relationships between the SMVs and phosphate minerals in the sample reveals new insights into the relative timing of key processes.

Grokhovsky V. I. Kozlov E. A. Muftakhetdinova R. F. Petrova E. V.

[*Spherical Shock Experiments with Chelyabinsk Meteorite: Experiment Setup and Insight into Results*](#) [#6347]

It has been shown that various lithologies in the Chelyabinsk meteorite can be obtained during converging shock waves experiment in one sample.

Narkhov E. D. Sapunov V. A. Sergeev A. V. Fedorov A. L. Muravyev L. A.

[*Magnetometric Search of Chelyabinsk Meteorite's Main Mass*](#) [#6275]

We present a result of the magnetic survey, made on the ice of Lake Chebarkul for location a main mass of the Chelyabinsk meteorite.

Kruglikov N. A. Grokhovsky V. I.

[*Mid-Infrared Microspectroscopy on Shock-Wave Loaded Chelyabinsk LL5 Olivine*](#) [#6356]

Experiments were made on bulk samples of the Chelyabinsk meteorite fragments with light lithology by shock-wave loading. Mid-infrared spectra were obtained. Position of 886 peak shifts towards red part of spectrum as for visible spectral range.

Fedulov V. S. Dushenko N. V. Korochantsev A. V. Voropaev S. A. Zaitsev M. A. Gerasimov M. V.

[*Murchison and Chelyabinsk Volatiles by Stepwise Heating: Preliminary Analytical Results*](#) [#6007]

The experimental study of the gases separation and other volatile compounds in the stepwise heating of meteorites Murchison and Chelyabinsk. We also study the chemical composition of volatiles with the aid of a gas chromatograph.

Muravyev L. A. Grokhovsky V. I.

[*The History of UrFU Meteoritic Expeditions*](#) [#6280]

The brief overview of history of Ural Federal University meteoritic expeditions, Ekaterinburg.

Nefedyev Y. A. Sokolova M. G. Andreev A. O. Sergienko M. V. Demina N. Y.

[*The Use of the D-Criterion Method for the Analysis of Observational Data of Tunguska Event*](#) [#6188]

Article arm is the use of the d-criterion method for the analysis of observational data of Tunguska event.