

Thursday, July 26, 2018
POSTER SESSION II: METEORITE FALLS AND FINDS
 5:30 p.m. Foyer

Imae N. Yamaguchi A. Kimura M.

[Recent Classification of NIPR Antarctic Meteorites](#) [#6099]

Recent published Meteorite Newsletters include 53 carbonaceous chondrites (CM, CO, CV, CR, CH, CK, and ungrouped), 4 enstatite chondrites, 7 R chondrites, 196 HED meteorites, 7 ureilites, 10 primitive achondrites, 2 mesosiderites, 1 angrite, and 3 martian meteorites.

Yoneda S. Yamaguchi A. Okazaki R. Imae N. Kimura M. Kataoka R. Iwahashi K.
 Mori T. Komatsu M.

[Classification of the Hachi-Oji Meteorite and Comparison with the Sone Meteorite](#) [#6220]

The Hachi-oji meteorite fell near Tokyo in 1817. Only 0.1 g chip is left and we classified it as a H5 chondrite by petrological and noble gas studies. However, we cannot exclude the possibility that this chip is a fragment of the Sone meteorite.

Pastukhovich A. Yu. Sharygin V. V. Yakovlev G. A. Kolunin R. N. Grokhovsky V. I.

[Mineralogy and Petrography of H5 Chondrites from the LUT Desert, Iran](#) [#6136]

We studied in detail three new chondrites found during the UrFU expedition in Iran in January 2017. These meteorites were confirmed in December 2017 by the Meteorite Nomenclature Committee under the designations Gandom Beryan 008, 009 and Kerman 203.

Bischoff A. Kraemer A.-K. Klemm K. I. Decker S.

[News from the Almahata Sitta Strewn Field — Seven New Samples: Three Ureilites, Three Enstatite Chondrites, and One Ordinary Chondrite](#) [#6108]

After asteroid 2008 TC3 impacted Earth in 2008 many different meteorite types (achondritic and chondritic) were identified among the numerous meteorite fragments. The recognition of new scientifically valuable samples is still ongoing.

Silber E. A. Gritsevich M. Silber R. E.

[Nitric Oxide Production by Centimeter-Sized Meteoroids Impacting the Earth's Atmosphere](#) [#6183]

We investigate the nitric oxide production by cm-sized meteoroids in the Earth's atmosphere (80–95 km altitude) and discuss why these bodies are the most efficient producers of NO.

Pastukhovich A. Yu. Larionov M. Yu. Kruglikov N. A. Kolunin R. N. Sharygin V. V. Grokhovsky V. I.

[UrFU Meteorite Expedition to the Atacama Desert \(Chile\)](#) [#6071]

Report is about the UrFU expedition to the Atacama Desert (Chile). The search for meteorites took place across three regions of the northern part of the Atacama Desert. During the expedition a significant amount of extraterrestrial matter was collected.

Ouknine L. Khiri F. Ibhi A.

[African Meteorite Finds: Typology, Mass Distribution, Porosity, and Weathering Variation](#) [#6146]

The present work aims to characterize the classification of the African meteorite finds and to study the variation of the weathering grades of this collection and its relationship with masses and porosities of the samples.

Pedersen H.

[Pallas Iron \(Pallasite Krasnojarsk\) Considered as Part of a Strewn-Field](#) [#6044]

Reasons are presented why the Pallas Iron, also known as the pallasite Krasnojarsk, must be part of a strewn-field.

Muravyev L. A.

[Geophysical Methods in the Search for Extraterrestrial Matter](#) [#6277]

We present Urals Meteoritic Expedition's almost twenty years of experience with the magnetometers MMPOS. It indicates the successful possibility of carrying out prospecting work for a meteorite substance both on land and in water areas.

Butka P. Gritsevich M. Vinković D. Cellino A. Bertaina M. Mönkölä S. Moreno-Ibáñez M. Nico G. Nina A. Srečković V. Mitrović S. T.

[*Novel Meteor Simulation and Observation Techniques that Emerged from Big-Sky-Earth COST Action*](#) [#6293]

The cooperation of scientists in Big-Sky-Earth COST Action creates an emergent group of researchers with relation to meteor science. Selected cases of development of novel approaches and techniques for meteor simulation and observation are presented.

Larionov M. Yu. Kruglikov N. A. Pastukhovich A. Yu. Gritsevich M. I. Lyytinen E. Muravyev L. A. Grokhovsky V. I.

[*Analysis of the Bright Fireball over the Ural Region of Russia on March 6, 2018*](#) [#6302]

Bright bolide widely observed on 06.03.2018 at 17:58 UT in the Ural region of Russia. The fireball trajectory and probable coordinates of survived fragments were determined. A visual search of meteorite fragments were carried out.

Kuznetsova D. Gritsevich M. Silber E. A. Christou A.

[*Analytical Model for Determining the Outcome of Meteoroid Entry into the Martian Atmosphere*](#) [#6198]

We describe a model of meteoroid entry into the martian atmosphere. Two representative cases are investigated: for surface impact and for the meteoroid that fully ablates in the atmosphere and thus never reaches the ground.

Masarik J. Beno J. Breier R.

[*Variation in Particle Fluxes and Short-Lived Cosmogenic Nuclide Production Rates During Solar Cycle*](#) [#6053]

We present new model for the calculation of production rates of short-lived cosmogenic nuclides as function of solar activity. Calculated production rates were compared with experimental data from Kosice and Chelyabinsk falls.