Craters

Badjukov D. D.  Raitala J.  Ohmann T.  Lorenz C.

*The Kara Crater Size: Suevite Layer Outside the Crater Depression [#1480]*

Impactites at the Syadmayakha River located 55 km northeast from the Kara crater center are proposed to be the fallback suevite. This leads to an assumption that the area belongs to a crater floor and the Kara crater is at least 110 km in diameter.

Kozlov E. A.  Zhugin Y. N.  Sazonova L. V.  Fel’dman V. I.

*Migration of Chemical Components of Minerals Under Shock-Wave Loading of Janisjarvi Astrobleme Target Rocks (Kareliya, Russia) [#1050]*

The results of spherical shock-wave recovery experiments are presented. The regularities of atoms migrating and occupying different crystallographic positions in the grid of minerals in stress waves of different intensity have been revealed.

Lehtinen M.  Pesonen L. J.  Stehlik H.  Kuulusa M.

*The Suvasvesi South Structure, Central Finland: New Evidences for Impact [#1188]*

Recently found shatter cones on the shore of lake Suvasvesi South, central Finland, together with petrographic and geophysical data support the idea that it, together with its northern companion (Suvasvesi North), forms a new doublet impact site.

Nayak V. K.

*A Meteorite Impact Crater and Astroblemes in India [#1129]*

The details of a meteorite impact crater at Lonar and astroblemes at Ramgarh and Shiva in the Indian subcontinent are furnished and their significant features highlighted.

Shandera S. E.  Lorenz R. D.

*Experiments on Low Speed Penetration into Granular Materials of Varying Size, Shape and Density [#1403]*

Impact accelerometry from impacts into granular materials yields information on target particle size etc.

Valter A. A.  Dobraynskii Yu. P.

*The Cooling History of Layered Glassy Impactites (Tagamites): Influence Upon Preservation of Impact Diamonds [#1116]*

The cooling down dynamics was calculated for the rock mass of essentially glassy tagamites from the Boltysch Astrobleme on the Ukrainian Shield and for the body of diamond-bearing tagamites of the Popigai Astrobleme in the north of West Siberia.

Vishnevsky S. A.  Palchik N. A.

*Carbon Matter in Impactites of the Yanis-Järvi Astrobleme, Russia: High Pressure Shock Transformations [#1676]*

Carbon matter in impactites of Yanis-Järvi astrobleme exhibits high pressure shock transformations (origin of cubic diamond paramorphs on parental graphite, and development of fine cubic diamond crystallites on amorphous parental carbon).