

PRINT ONLY: IMPACTS

Ivliev A. I. Lukanin O. A. Kuyunko N. S.

[*The Impact Glasses Characteristics Studying by the Thermoluminescence Method*](#) [#1058]

In the given work new results of TL measurements in impact origins glasses are presented: in tektites from various strewn fields, in Libyan Desert glasses, and also impact glasses genetically connected with impact craters Zhamanshine and Elgygytgyn.

Lindgren P. Broman C. Holm N. G. Parnell J. Bowden S. A. Osinski G. R. Lee P.

[*The Raman Signature of Shocked Carbonates from the Haughton Impact Structure, Devon Island, Canada*](#) [#1258]

This is a study of the Raman signature of calcite and dolomite in shocked carbonate clasts within the Haughton impact melt rocks. The impact shock effects are observed with Raman analyses in dolomite, while the calcite structure remains intact.

Llorca J. Trigo-Rodriguez J. M. Docobo J. A. Neira H.

[*Evidence for an Atmospheric Airburst of a Huge Bolide over Spain in 939AD as Recorded in Medieval Chronicles*](#) [#1359]

Medieval chronicles of Spain describe the impact of a huge bolide on June 1, 939 AD. The resulting airburst may be correlated with temperature variations preserved in ice cores and tree rings present in the period 930–940 AD.

Misra S. Newsom H. Panda D. Sisodia M. S. Dube A.

[*Additional Studies of Materials from the Ramgarh Structure, India*](#) [#1693]

Continuing work on materials from the Ramgarh structure, India, include analysis of magnetic particles found near the structure.

Parnell J. Taylor C. W. Thackrey S. Osinski G. R. Lee P.

[*Permeability Data for Impact Breccias*](#) [#1157]

Permeability data is reported for impact breccias from the Haughton and other craters. Values are consistently low.

Povenmire H.

[*The First Tektites Found in Wilcox and Turner Counties, Georgia*](#) [#1208]

Field research describing the expansion of the Georgia tektite strewn field.

Svetsov V. V.

[*Impact Erosion of Water Ocean on the Early Earth with a Thin Atmosphere*](#) [#1147]

The work purpose was to calculate the masses of lost and retained water after the impacts of comets and asteroids on oceans of various depths. The bombardment of an atmosphereless planet by fast asteroids can wipe out the most part of an ocean.

Vishnevsky S. A. Gibsher N. A. Palchik N. A.

[*H₂O + Melt Jets in the Popigai Lechatelierites: Products of Shock-induced Fluid + Melt Selective Separation Derived from the Target Gneiss*](#) [#1108]

Lechatelierites from the Popigai suevite were intruded by jets of hot and mobile material from outside. The material was a result of early impact anatexis of target gneiss. Selective separation of Si, Na, K and H₂O vs. low mobile Al took place at this.