Kazan Golovkinsky Stratigraphic Meeting 2022

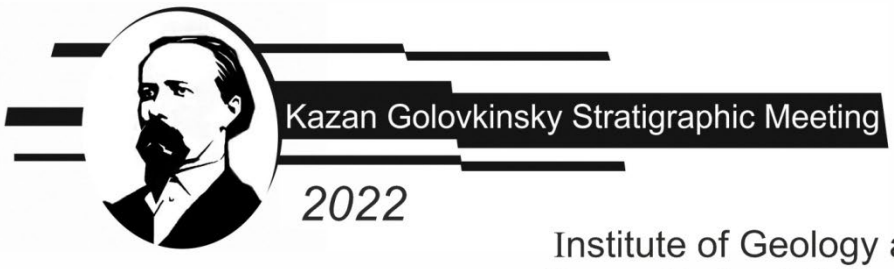
Institute of Geology and Petroleum Technologies
Kazan Federal University in Dzhizak (Uzbekistan)

Kazan Golovkinsky Young Scientists' Stratigraphic Meeting 2022

Sedimentary Earth Systems: Stratigraphy, Geochronology, Petroleum Resources, Climate and Environmental changes

October 17-19, 2022
Kazan (Russia), Dzhizak (Uzbekistan)

ABSTRACT VOLUME



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MICROSCULPTURE STUDIES OF LATE PERMIAN, EARLY TRIASSIC AND MODERN CONCHOSTRACANS

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The microsculpture of conchostracans is a reinforcing skeletal formation of chitinous valves. Microsculptural elements – nodules, pits, radial-lirae – are located on the growth bands, less on the growth lines.

The significance of microsculpture for the taxonomy of conchostracans is discussed by various authors. Some of them consider that microsculpture has no important taxonomic significance in identifying conchostracan species [Tasch, 1969; Liao et al., 2019]. Other authors suggest that microsculpture may have taxonomic significance at the generic and species levels [Novojilov, 1954; 1956; 1963; Li et al., 2009] or are additional characteristics for some species [Orlova, Sadovnikov, 2006; 2009; Teng et al., 2016; Hethke et al., 2017]. Some authors believe that changes in environmental conditions, including changes in temperature, are reflected in the microsculpture of conchostracans [Grube, 1865; Novojilov, 1954; Web, 1979].

The microsculpture of conchostracans has been studied in 13 fossil and 3 modern species. Fossil conchostracans are found in the Middle and Upper Permian and Lower Triassic sections of the Volga-Ural anteclise, the Kuznetsk Coal Basin, and Southern Verkhoyanie. Modern conchostracans are found in the localities of Atsrak Playi in the eastern desert of Jordan, Königswart (Germany) and Dead Vley desert of Namibia.

The Permian conchostracans of the genus *Pseudestheria* have reticulated microsculpture, while Triassic conchostracans of this genus have pitted microsculpture [Zharinova, Silantiev, 2019; Zharinova, 2021].

The studied Early Triassic species *Euestheria gutta* (Lutkevich, 1938) from the Babii Kamen Section (Kuznetsk Coal Basin), Tiryakh-Kobyume Section (Southern Verkhoyanie) has a small pitted microsculpture [Zharinova, 2021].

Three specimens of the species *Limnadia lenticularis* (Linné, 1761) grown in artificial condition from the Königswart locality (Germany) have nodular microsculpture [Sabirova et al., 2019].

The modern species *Cyzicus tetracerus* (Krynicki, 1830) and Early Triassic species *Concherisma tomensis* Novojilov, 1958 and *Hemicycloleaia* sp. have mixed (transitional) microsculpture [Sabirova, et al., 2019; Zharinova, 2021]. This may be a taxonomic feature for these species.

The study of conchostracan microsculpture led to the conclusion that microsculpture may be a taxonomic feature for some conchostracan speciesт or genus.

Future studies of modern conchostracans under conditions of changing temperature, salinity, and pressure will help clarify whether a change in microsculpture is a taxonomic feature for some species or a consequence of changes in environmental conditions.

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