

Ostracoda as proxies in Geoarcheology

Date	27 Oct (Fri.)	
Time	16:00 (UTC+8)	
Venue	3N01 & Zoom	

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Ostracoda are minute Crustacea with a calcified carapace living in all types of waters. They are valuable index fossils, proxies and bioindicators in geosciences with a fossil record covering almost the entire Phanerozoic. The present talk will introduce to the special field applying ostracods in geoarchaeological studies for revealing land use and palaeoclimatic changes, anthropogenic pressures through eutrophication, heavy metal pollution, habitat disturbance, provenance of materials in continental and marginal marine ecosystems. Methods of analysing fossil ostracods from archaeological samples comprise palaeoecological association analysis, morphological studies, elemental and stable isotope shell chemistry, and taphonomy. Case studies from several continents illustrate the high potential of ostracods in geoarchaeological applications.



Prof. Peter Frenzel is from the Institute of Geosciences at Friedrich Schiller University of Jena, Germany. He focuses on palaeo-applications, ecology, and taxonomy of ostracods in Quaternary sediments from Europe, Africa, and Central Asia. **Ella Quante** is finishing her PhD thesis about the use of freshwater ostracods as tools in geoarchaeology at the Friedrich Schiller University of Jena, Germany.

All are welcome!