

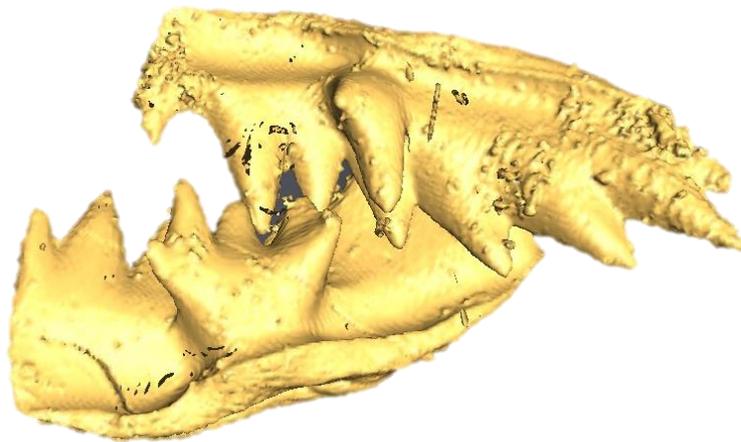
Workshop

Application of Conodonts in Geology

Workshop leader

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Zagreb, Croatia, May 10, 2023



Workshop Schedule

Department of Geology, Horvatovac 102b, Lecture rooms 016,-005

12.15.-13.30. Lecture I

13.30.-14.00. Coffee Break

14.00.-15.15. Lecture II

15.15.-15.30. Coffee Break

15.30.-18.00. Exercises

The lecture will focus on unusual long-extinct organisms - conodonts. They are microscopically small fossil remains of simple vertebrates that were similar to eels and which inhabited the Earth for 300 million years, from the beginning of the Paleozoic to the end of the Triassic. With their teeth-like elements that can be obtained by dissolving rock in acetic acid, we can determine the geological age very precisely, since these animals were once widespread in all the world's seas, and evolved rapidly, which is an important characteristic of index fossils. Therefore, the lecture will emphasize their exceptional role in biostratigraphy and their usefulness in the reconstruction of former environments. Their usefulness as a geothermometer in the study of metamorphism and structure will also be demonstrated. Practical part– presentation of the main types of conodont elements and their terminology; conodont apparatus: composition, function, study of "clusters", use of X-ray microtomography.