



# Abstracts

8th European Ostracodologists'  
Meeting

Tartu, Estonia, 22-30 July 2015



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## 8<sup>th</sup> European Ostracodologists' Meeting

Tartu, Estonia, 22-30 July 2015

Department of Geology, Institute of Ecology and Earth Sciences, University of  
Tartu

*Edited by*  
*Vincent Perrier & Tõnu Meidla*

Tartu, 2015

## *Abstracts*

### *8th European Ostracodologists' Meeting*

*Tartu, Estonia, 22-30 July 2015*

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APPENDIX (added in the pdf edition)

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## Preface

The ostracod workers are meeting regularly in different places of Europe but this is the first time when the meeting takes place in Estonia. Tartu, the location of the 8th European Ostracodologists' Meeting was decided during the 7th EOM in Graz, Austria, in the summer of 2011. The meeting is hosted by the Department of Geology of the University of Tartu.

The meeting is held in July 22-30, 2015 and the period is divided into three parts. The pre-conference field trip starts from Tallinn on July 22th and takes a small group of people to a number of sites related to the ostracod studies in Estonia. The scientific sessions in Tartu are held from July 24th to 27th, with the mid-conference excursion to the Endla Nature Reserve and inter-drumlin Lake Saadjärv. The post-conference excursion visits the Ordovician and Silurian sections on the Island of Saaremaa and in mainland Estonia, it departs from Tartu on July 28th and terminates in Tallinn on July 30th.

The present abstract volume was prepared for the meeting. 40 talks and 34 poster presentations of this meeting summarize recent advances in ostracod studies, covering a wide range of topics from biology to geoarchaeology. Several business meetings are held during conference.

The organizers thank all contributors and members of the scientific committee and acknowledge financial support from the University of Tartu.

*Tõnu Meidla and Oive Tinn*

On behalf of the Organizing Committee

## Preliminary results on ostracod and diatom assemblages of Lake Eğirdir, Isparta, Western Turkey

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The Lake Eğirdir is the second largest freshwater lake of Turkey. It is located in city of Isparta and its vicinity and this area is also known as the Turkish Lakes Region. It covers 480 km<sup>2</sup> aquatic surface area and average water depth is about 7-8 m. Lake Eğirdir extends 50 km in N-S and 17 km in E-W directions. The narrowest part of the lake is about 1.5 km with a 1.5-2 m depth. Its height above sea level is 919 m. The origination of the lake is related to tectonic and karstic processes (İleri et al., 2014a).

In total twenty-six observation and grab sampling point locations have been realized. CTD, sechi disc, temperature, depth and pH measurements were also carried out. Lake bottom samples have been taken with 2-4 m long Livingstone cores in Hoyran (one point) and Barla-Bedre (three points) localities and an Ekman sampler at one point (İleri et al., 2014b). All of the cores showed that the bottom sediments comprise clay with occasionally silt and sandy levels and abundant microfossiliferous (ostracods, gastropods, pelecypods, Charophyta gyrogonites, diatoms, spores-pollens and fish teeth and remains) levels.

Eleven known ostracod species have been determined: *Darwinula stevensoni*, *Candona neglecta*, *Candona angulata*, *Pseudocandona cf. marchica*, *Physocypria kraepelini*, *Ilyocypris monstifrica*, *Ilyocypris bradyi*, *Prionocypris zenkeri*, *Herpetocypris chevreuxi*, *Isocypris beauchampi* and *Cypridopsis vidua*.

Also, twenty-seven diatom taxa have been commonly revealed from the lake. Especially, *Diatoma moniliformis* (Kützing) DM Williams was abundant in April 2013 while *Cymbella excisa* Kützing was abundant in July and October 2013. Regarding to the ecological features of the taxa, *C. excisa* is an oligosaprobious and cosmopolitan species. According to the autoecological indices, the lake has alkaline, oligo-mesosaprobic and eutrophic characteristics, while according to the diatom indices the lake was mildly polluted in April and July 2013 while moderately polluted in October 2013.

Microbiological, mineralogical, geochemical,  $\delta^{18}\text{O}$ - $\delta^{13}\text{C}$  and radiometric age determinations have also been performed on the sediment samples of Lake Eğirdir. The oldest sample dates back to 8557 cal BP corresponding to the Early Holocene. The average sediment accumulation rate is calculated as between 0.65-8.0 mm/year in the lake. A generalized paleoclimatic profile indicates that there were three main dry and two main wet periods during the time span. Magnetic and geochemical data also support this paleoclimatic interpretation (İleri et al., 2014a, b).

**References:** İLERİ Ö. et al. 2014a. Geological and geophysical features of Late Quaternary-Recent sediments of Lake Eğirdir, 67th Geological Congress of Turkey, 14-18 April 2014, Abstracts Book, p282-283, Ankara, Turkey. İLERİ Ö. et al. 2014b. The Properties of Recent Sediments and Late Quaternary of Lake Eğirdir. An International Workshop on Lakes and Human Interactions, QuickLakeH2014, 15-19 September 2014, MTA Natural History Museum, Abstracts Book, p30. Ankara, Turkey.