



Workshop “Methods in Ostracodology 2”

Graz, 23.8.2011

Dear colleagues!

Thank you very much for your participation in MIO 2. We hope that this workshop was useful for you and you can apply the presented methods to your work.

At the closure of MIO 2 we all discussed potential topics of this or comparable workshops.

Here is the list of proposed themes (in bold ideas, which extend the list prepared after MIO 1):

1. Principles, Concepts + Applications of ostracod taxonomy (Biodiversity, Morphometrics)
2. Soft-part morphology, diversity in Ostracods; preparation of material
3. Sample collection: living + fossil; processing methods, etc.
4. Methodologies: SEM, LM, data organisation, Metadata (NODE, NANODE)
5. Transfer functions (e.g., C2)
6. Trace element(s) analysis + isotopes + **shell chemistry**
7. Macro- and Microevolution of Ostracoda
8. Ostracod Physiology + Functional Morphology + Culturing living Ostracods
9. Indices of diversity + Statistical analysis of data
10. Natural History (Ecology) of living taxa; palaeobiogeography
11. Ostracoda & the food webs
12. Shell calcification, Microstructure & Preservation
13. Paratethyan Ostracoda
14. Ancient Lakes
15. DNA, Ostracods + Bioindicators
16. Methods in phylogenetic research, e.g., “PAUP”
17. Teaching Ostracodology to students + general public
18. **Workshop focussing on specific taxa like *Cyprideis* or *Bairdia***
19. **Groundwater ostracods and sampling methods**
20. **Ostracod taphonomy**
21. **Higher rank taxonomy (suprageneric)**
22. **Guide to describing species**

Some of these topics are already treated by the Graz-MIO's:

- Geometric Morphometrics
- Trace element(s) analysis + isotopes + **shell chemistry**
- Sample collection: living + fossil; processing methods, etc.
- Soft-part morphology, diversity in Ostracods; preparation of material
- Transfer functions (e.g., C2)
- Indices of diversity + Statistical analysis of data

However, there is no constrain to fix them to Graz.

Other MIO's may deal with:

- Ostracod Physiology + Functional Morphology + Culturing living Ostracods
- Ostracoda & the food webs
- Shell calcification, Microstructure & Preservation
- DNA, Ostracods + Bioindicators
- **Groundwater ostracods and sampling methods**
- **Guide to describing species**

Some themes could be run as special workshops/sessions during e.g., ISO, EOM, etc. (like during EOM 7 this year: Ponto-Caspian, Omega, NSF):

- Principles, Concepts + Applications of ostracod taxonomy (Biodiversity, Morphometrics)
- Macro- and Microevolution of Ostracoda
- Methods in phylogenetic research, e.g., "PAUP"
- Paratethyan Ostracoda
- Ancient Lakes
- Natural History (Ecology) of living taxa; palaeobiogeography
- Teaching Ostracodology to students + general public
- Methodologies: SEM, LM, data organisation, Metadata (NODE, NANODE)
- **Workshop focussing on specific taxa like *Cyprideis* or *Bairdia***
- **Ostracod taphonomy**
- **Higher rank taxonomy (suprageneric)**

Please feel free to send you your suggestions. Further, we would be glad about any feedback to the lectures and practical sessions. Please send them to frank.gitter@museum-joanneum.at.

Your suggestions are very important to improve possibly upcoming workshops!

With best regards,
Martin Gross

(On behalf of the organisation committee of MIO 2)