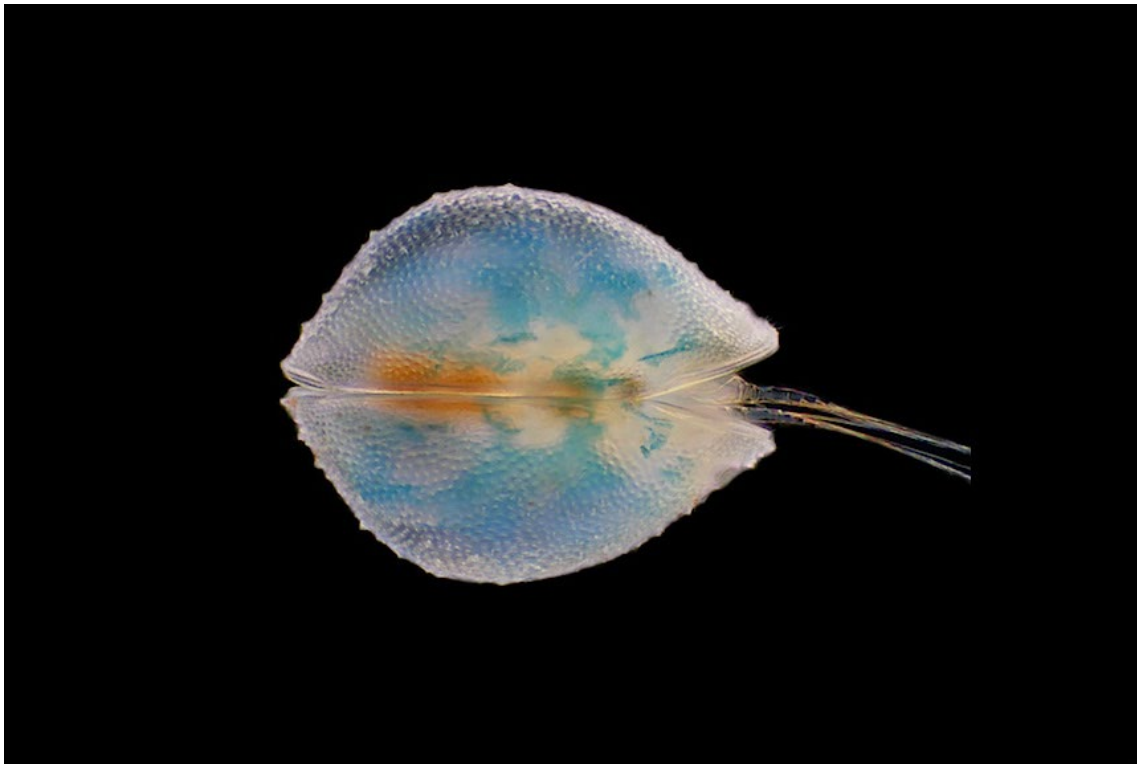


CYPRIS

2006

Number 24

Editor: Elisabeth Brouwers



Cypris granulata female, Lake Biwa. Image courtesy of Robin J. Smith.

ARGENTINA

Gabriela Cusminsky

Ongoing research:

- Taxonomic, paleoecological and paleoenvironmental research of Upper Tertiary, Quaternary and modern lacustrine ostracods from Argentina, in particular, Patagonia.
- Reproductive strategies in lacustrine ostracods.
- Systematic and paleoenvironmental interpretation of lacustrine cores from Cari-Laufquen and Cardiel lakes in Patagonia.

AUSTRALIA

Correspondent: **Stephen Eagar**

Peter Jones

- Peter continued palaeontological research on Ostracoda and other small bivalved arthropods from Australia. A taxonomic note was published in collaboration with **Mark Warne** (Deakin University) and **Louis Kornicker** (Smithsonian Institution) on specimens of *Polycope* from the Miocene of Victoria, hitherto misidentified for 50 years as belonging to the genus *Thaumatocypris* (Suborder Halocypridina). As a result, it was concluded that *Thaumatocypris* has not been collected in the Miocene of Australia, and, in a broader biostratigraphic and palaeobiogeographic context, confirmed the absence of records of *Halocypridina* during the Tertiary Period.
- The results of a taxonomic study of bivalved arthropods (Bradoriida and Phosphatocopida) from the early Middle Cambrian of the Georgina Basin, central Australia, with **John Laurie** (Geoscience Australia) was published. A taxonomic note was published in response to the reply by **Heinz Malz** and **Alan Lord**. (2004) to my 2003 paper on pathological moult retention in the puzzling ostracod species *Ankumia bosqueti* van Veen, 1932 (Late Cretaceous, Maastrichtian, The Netherlands).
- He is presently studying the latest Devonian Ostracoda from the Bonaparte Basin, northwestern Australia, their taxonomy, and palaeozoological links for correlation.

Ivana Karanovic

I have become an Honorary Associate of the University in Hobart, Tasmania.

John Neil

- Honorary Research Associate at Latrobe University Bendigo.
- Working on microreticulation and its functional and evolutionary significance
- Taxonomy of the ostracode assemblages from the Batesford Limestone (Middle Miocene), Batesford, Victoria.

Anna Syme

- I am currently working as a postdoc with **Todd Oakley** at the University of California, Santa Barbara, investigating myodocopid evolution.
- I completed my PhD in early 2007, entitled “*A systematic revision of the Cyndroleberididae (Crustacea: Ostracoda: Myodocopa)*”. It is available online at <http://eprints.infodiv.unimelb.edu.au/archive/00002921/>.
- I have completed a preliminary interactive key to identifying cyndroleberidid ostracods. It is available at <http://researchdata.museum.vic.gov.au/marine/ostracods/InteractiveKey.htm>.

Mark Warne

- Continues his research on the taxonomy, palaeoecology and biogeography of Australasian fossil and recent ostracods (Cretaceous to Recent).
- Involved in studies on the environmental history of southeast Australian estuaries.
- Using subfossil ostracod distribution patterns to assess changes in the dispersal of broad salinity, dissolved oxygen, and water circulation regimes through time.

AUSTRIA

Correspondent: Dietmar Keyser

Holger Gebhart

- Ongoing research on the ecostratigraphy of the Austrian Molasse Basin (Oligocene to Miocene).
- Information on the scientific collection of the Geological Survey of Austria, including ostracods, and other collections in Austria can be found on the web site: <http://www.oeaw.ac.at/oetyp/palhome.htm>

Martin Gross

Continues his work on Middle and Upper Miocene ostracods from the Vienna and Styrian Basins. In 2004 he published a rather extensive paper on limnic to brackish water ostracods from the lowermost Upper Miocene (Pannonian). Recently, he is focusing his interest on freshwater ostracods of the upper Middle Miocene (late Sarmatian) and the taxonomic part of his theses about mainly marine Middle Miocene ostracods (Badenian) was published this year.

Wolfgang Mette

My current work is concerned with Permian-Triassic ostracods from the Southern Alps. Besides the taxonomic work, the ostracode research includes palaeoecological aspects and the extinction pattern. A fellowship for a doctoral thesis about this topic has been applied for. Three diploma students are currently starting to work on the sedimentology and micropalaeontology of various Permian-Triassic sections in the dolomites

Benjamin Sames

I recently accepted a temporary position at the Palaeontology Department of the University of Vienna and am still a PhD student at Freie Universität Berlin. I am about to finish my PhD thesis (supervisors **Michael E. Schudack**, Berlin and **David J. Horne**, London) on Early Cretaceous nonmarine ostracods of the U.W. Western Interior and their application to biostratigraphy and palaeoecology. Furthermore, I continue dealing with taxonomy and phylogeny of Jurassic to Early Cretaceous ostracods.

BELGIUM

Correspondent: Karel Wouters

Jean-Georges Casier

Continues to work on Devonian ostracods in collaboration with **Ewa Olempska** of the Polish Academy of Sciences. We have finished a preliminary study on ostracods during the Early-Middle Frasnian crisis in the Wietrznia quarry (Holy Cross Mountains, Poland). We have also begun the study of ostracods present in several classic Belgian reference sections, taking advantage of the recently re-examined lithostratigraphy of the Frasnian and Famennian in the type locality, by the Belgian Subcommittee on Devonian Stratigraphy. A first paper showing the distribution of ostracods in the famous Frasnian railway section will be submitted soon. **Jean-Georges Casier** has also finished a study on Devonian ostracods from Bolivia collected by **Patrick Racheboeuf** (University of Brest), and a study on ostracods from the Middle/Upper Devonian boundary stratotype (Puech de la Suque, Montagne Noire, France). This paper will be published in the next issue of the *Bulletin de la Société géologique de France*. Ostracods indicate that the Puech de la Suque section is far from being an ideal stratotype for the Givetian/Frasnian boundary.

Marc Peeters

Study of distribution of Recent ostracod fauna in sediment samples of the Belgian part of the North Sea.

Robert Speijer

Research in the Biogeology research group of the K.U. Leuven focuses on improving the understanding of bio-geosphere interactions during the early Paleogene with a particular focus on the Paleocene-Eocene thermal maximum (PETM) and the Danian/Selandian transition. Three of us are contributing through ostracod studies in this endeavor. **Jimmy Van Itterbeeck** (now Shell Rijswijk) studied assemblages from the marine Sidi Nasseur section in Tunisia and observed a modest faunal change across the Danian/Selandian boundary (Van Itterbeeck et al. 2007). **Andre Bornemann** (now Leipzig University) who briefly succeeded Jimmy in our lab continued Jimmy's work by unraveling stable isotopic (O, C) signatures on some of the marine taxa of Sidi Nasseur. **Mohsen Morsi** of Ain Shams University, Cairo is our Egyptian expert colleague who has been dealing with Ostracoda from the Paleocene of Egypt and of the PETM in Tunisia. With respect to the latter, we are assessing the role of climatic and paleoceanographic changes on the evolution

and migration of Tethyan assemblages. Earlier results from Egypt indicated a gradual but distinct change across the Paleocene/Eocene boundary (Speijer and Morsi, 2002, Morsi and Speijer, 2003).

Karel Wouters

Is continuing research on marine and brackish Cypridacea, mostly from the Indian and Pacific oceans, on Ypresian ostracods from an outcrop in Marke (Belgium), on the taxonomy and zoogeography of the family Saididae, and on the *Cyprideis* species flock of Lake Tanganyika (together with **K. Martens**).

The ostracod research group of Koen Martens and Isa Schön at the Royal Belgian Institute of Natural Sciences, Brussels (Belgium) consisted in 2005-2006 of:

Postdocs:

- **Dunja Lamatsch**, EU Marie Curie project Sexasex on genetic signatures of asexuality in *Eucypris virens*.

PhD students:

- **Saskia Bode**, PhD Student University of Sheffield, UK (with **R. Butlin**): Phylogeography of *Eucypris virens*.
- **Sukonthip Savatnalintorn**, PhD student University of Ghent, Belgium: Taxonomy of nonmarine Ostracoda from Thailand. (with **G. Borgonie**).
- **Thijs Van der Meeren**, PhD student University of Ghent, Belgium: (Paleo-) ecology of nonmarine ostracods from western Mongolia. (with **D. Verschuren** and **E. Ito**).
- **Simone Nunes Brandão**, PhD student University of Hamburg, Germany: Phylogeography and phylogeny of marine Cypridocopina (with **D. Keyser**).
- **Valentina Pieri**, University of Trieste, Italy (finished PhD 2007): Nonmarine ostracods from Italy. (with **G. Rossetti**).
- **Janet Higuti**, University of Maringa, Brasil (finished PhD 2006): Ecology of nonmarine Ostracoda from Parana Floodplain. (with **F. Lanzac-Toha**).
- **Ricardo Pinto**, University of Sao Paulo, Brasil (finished PhD 2007): Taxonomy and ecology of semi-terrestrial ostracods from Brazil. (with **C. Rocha**).

Master's students:

- **Lynn Vandebroek**, University of Ghent, Belgium: DNA repair in nonmarine ostracods.
- **Shanna Vanblaere**, University of Ghent, Belgium: Transposable elements and the mode of reproduction in nonmarine ostracods.
- **Tessa Major**, University of Ghent, Belgium: Valve morphology in *Eucypris virens*

Sexasex students:

- **Sofia Adolfsson**, University of Montpellier, France.
- **Saskia Bode**, Royal Belgian Institute of Natural Sciences, Brussels, Belgium.
- **Olivier Schmit**, University of Valencia, Spain.

- **Radka Symonova**, University of Munich, Germany.
- **Maria-Joao Martins Fernandez**, University of Parma, Italy.
- **Dorota Pacześniak**, University of Sheffield, UK.

SexAsex postdocs:

- **Andrew Park**, University of Montpellier, France.
- **Dunja Lamatsch**, University of Sheffield, UK.
- **Jochen Vandekerkhove**, University of Gdansk, Poland.
- **Ruža Bruvo**, University of Sheffield, UK.

Funded research topics in 2005-2006

- The Brussels' team coordinates the EU-funded Research and Training Network in the Marie Curie programme on evolutionary interactions between sexual and asexual lineages, using the ostracod species *Eucypris virens* as model organism. The Brussels lab is in charge of investigating phylogeography and genetic signatures of asexuality in *Eucypris virens* with 1 Early Stage Researcher and one postdoc. This project AS A WHOLE runs for 4 years (2004-2008) and employs 6 Early Stage Researchers and four postdocs in 9 European laboratories (see below). The topic covers molecular biology, genomics, ecology, phylogeny and phylogeography, modelling, etc., and deals with geographic parthenogenesis, relevance of parasitic load, functionality of rare males and so on.
- Continuing studies on taxonomy, phylogeny, and ecology of non-marine ostracods from the world, presently with focus on Africa, Thailand (**Sukonthip Savatnalinton**), Mongolia (**Thijs Van der Meeren**), Italy (**Valentina Pieri**), and South America (**Janet Higuti** and **Ricardo Pinto**).
- Ostracod diversity and speciation in ancient lakes (Baikal, Tanganyika, Malawi, Titicaca): in ESF project on "Molecular Archives in Ancient Lakes."
- Evolutionary ecology and genetics of putative asexual darwinulid ostracods.
- Taxonomic revision of putative ancient asexual darwinulid ostracods with **G. Rossetti** (Recent) and **Dave Horne** (Mesozoic).
- The effect of transposable elements on ostracod evolution (with **Irina Arkhipova**).
- Taxonomic revision of the Australian genus *Bennelongia* (with **Stuart Halse**).
- Phylogeography and phylogeny of marine Cypridocopina from the deep-sea off the Antarctic shelf (**Simone Nunes Brandão**).

Non-ostracod activities:

- Participating in the CC of the ESF PARTNER network and editing the book "Lost sex" (**Isa Schön, Koen Martens, Peter Van Dijk**) on asexual reproduction.
- Projects on the science policy of biodiversity and the use of biodiversity in small water bodies to assess (agricultural) landscape integrity. I am editor-in-chief of *Hydrobiologia* and am editor of two book series.

BRAZIL

Correspondent: **Joao Carlos Coimbra**

Sara C. Ballen

- Is continuing her investigations on Mesozoic and Cenozoic marine benthic ostracods from west central Argentina. Systematic updating and temporal and palaeogeographic distribution, especially genera and species, with Gondwana distribution (papers with **Robin Whatley**).
- Collaboration with several colleagues (**Cecilia Laprida, Analia Diaz, Sonia Fontana**) about nonmarine ostracods, mainly concerning their systematics, ecology, and comparisons with extant specimens.

Cristianini Bergue

I am working with Quaternary bathyal ostracodes from the Brazilian margin on both systematics and paleoceanographical applications.

Joao Carlos Coimbra

- A long-term project on the taxonomy and zoogeography of Brazilian marine ostracods, with **Maria Ines Feijo Ramos**
- Southwestern Atlantic Quaternary palaeoceanography based on calcareous microfossils (mainly ostracods), stable isotopes, and trace elements (**with Cristianini Treastro Bergue, Felipe Toledo, and Candido A.V. Moura**).
- Ostracods from the Brazilian oceanic islands (Atol das Rocas, Tridade, and Fernando do Noronha).
- Miocene and Pliocene ostracodes and planktonic foraminifers and their applications to palaeoenvironmental and biostratigraphic analysis, Pelotas Basin (southernmost Brazil), with **Ana Luisa Carreno**.

Two PhD students

- **Claudia Pinto Machado** is studying the taxonomy and zoogeographical significance of the ostracode fauna from the NE shelf of Brazil
- **Adriana Leonhardt** is working on palaeoceanography (based on calcareous nannofossils) of drill holes from Santos Basin, southern Brazil (co-advised by **Felipe Toledo**)

Three M.Sc students

- **Demetrio Nicolaidis** is working on deep sea ostracods from Late Quaternary cores of the Campos Basin, Brazil (co-advised by **Cristianini Treastro Bergue**).
- **Pauline di Mari Leopoldi** is studying deep sea ostracods from a core localized in the south of the southwestern Atlantic Ocean.
- **Renata Giacomel** is concluding a study on planktonic foraminifers and isotope stratigraphy from the Quaternary of the Santos Basin, Brazil.

Dermal A. Do Carmo

- He is the Head of the Laboratory of Micropaleontology at the Institute of Geosciences, University of Brasilia, UnB. In 2005, during the 15th ISO held in Berlin, he was elected the Chairman of the 16th International Symposium on Ostracoda to be held in Brasilia, the capital of Brazil. The symposium is planned to take place in the last week of July 2009.
- He is working mainly with nonmarine ostracodes from Brazilian Cretaceous basins.

In 2006, several PhD students finished their thesis:

- **Fatima Praxedes Rebelo Leite**, Miocene paleobiogeography of the western Amazonia, based on palynomorphs.
- **Silvia Regina Goggo-Rodriguez**, Early Cretaceous ostracods from Araripe Basin, co-supervised by Dr. **Alexander W. Kellner**, Museu Nacional.
- **Claudio Magalhaes de Almeida**, PhD student, on Cretaceous-Paleogene ostracods from the Santos Basin, co-supervised by Dr. **Gerson Fauth**, UNISINOS
- **Henrique Zimmermann Tomassi**, PhD student, on Permian-Triassic ostracods from Parana Basin.

Gerson Fauth

- Current research activities include the Cretaceous ostracodes from Brazilian marginal basins and the Antarctic.
- Students include:
 - **Enelise Piovesan**, studying the Turonian-Maastrichtian ostracodes from Para Maranhao Basin.
 - **Gislaine Bertoglio**, studying the ostracodes from Campanian-Maastrichtian of Pelotas and Santos Basins.

Maria Ines Feijo Ramos

- I have been working in two main projects supported by Brazilian research financial agency (CNPq): 1) “*Paleontologia, Sedimentologia e Estratigrafia dos depósitos terciários da Formação Solimões, Sud Oeste da Amazônia Occidental*” and 2) *Paleoecologia e Bioestratigrafia da Formação Pirabas, nordeste do estado do Pará*.
- I am studying Recent ostracods from the Brazilian coast.
- My curation activities is in the Paleontology Collection (Invertebrate and Microfossils collection) from the Museu Paraense Emílio Goeldi.
- I am supervising one post-graduate student sponsored by CNPq, Brazil: **Anna Andressa Evangelista Nogueira** (bioanna100@yahoo.com.br) is studying the Miocene ostracods from Pirabas Formation, north Brazil.

Henrique Zimmermann Tomassi

Ongoing research on ostracods from the Permian-Triassic of the Parana Basin, Brazil.

CANADA

Ursula Grigg

- Retired, working at the Nova Scotia Museum of Natural History.
- Revising the “*Curatorial Report on Ostracods of the Canadian East Coast*”

Rebecca Macdonald

I am a PhD student at the University of Western Ontario in the Laboratory for Stable Isotope Science (LSIS). I am using the oxygen isotope compositions of Late Quaternary and Holocene fossil ostracodes from Lakes Huron and Michigan to examine changes in water sources during early deglacial times, as well as fluctuations in the climate during the past ~10,000 years. My draft thesis title is “*Hydrology and climate of Lakes Huron and Michigan during the Late Quaternary and Holocene periods using stable isotope geochemistry.*”

Qadeer Siddiqui

- Retired, working at the Department of Oceanography, Dalhousie University.
- Continuing work on Tertiary ostracods of Pakistan

Finn Viehberg

- He holds a Feodor-Lynen Research Fellowship from the Alexander von Humboldt Foundation (AvH) to continue his research project on *Paleolimnology in the eastern Canadian Arctic using microcrustaceans.*
- The Northern Studies Center Churchill awarded him the Northern Studies Award to support his research studies around Churchill, Manitoba, Canada.
- On 16018 November 2006 he hosted the First Canadian Ostracodologist Meeting at the Centre etudes Nordiques, University Laval, Quebec, Canada.

EGYPT

Ashraf M. T. Elewa

During the year 2006 I focused my work on one of the distinct phenomena that are affecting biodiversity, predation. Several questions arise to mind when we think of this phenomenon; what is behind predation? Why do some predators not benefit from their quarries after killing them? Are there genetic origins of this antagonism between organisms? Why do some female organisms kill their males after completion of sex? How can we avoid predation? Answering these questions and more led me to edit my third book with Springer-Verlag on “*Predation in Organisms: A Distinct Phenomenon.*” Three chapters of this book deal with Ostracoda. The website of this book (as well as my other two books) can be accessed through the following link:

<http://www.springer.com/west/home/geosciences?SGWID=4-10006-22-173679911-0>

FRANCE

Correspondent: **Jean-Paul Colin**

Bernard Andreu

Activities include:

- Upper Cretaceous of Pyrenees, France.
- Toarcian of Quercy and Grands Causses, south France.
- Jurassic (Callovian-Oxfordian) of Portugal.
- Cretaceous (Aptian-Albian) of Bulgaria.

Jean-Francois Babinot

- Retired in 2003.
- A paper on ostracodes from the Aptian stratotype of Apt area (Late Bedoulian-lower Gargasian) will be available in the near future. Title and publication will be given for the 2007 report.
- Main activities concern collections deposited.

Pierre Carbonel

- I have Ostracodes and paleoceanography, mainly in Mediterranean area--western Mediterranean with a core 330 m long sampled at 300 m deep, including about the last 500KY. Also, eastern Mediterranean area, north of the Nile DSF, with cores including the last 800KY. Collaborations with IFREMER, Brest (Program ANR SESAME), GEOAZUR, Nice (Program FANIL).
- Ostracodes and recent evolution of the coasts, particularly, impact of anthropogenic impacts (Roman harbours between Roma and Naples) (collaboration with ARCHAEOORIENT, Lyon, CEREGE, Aix en Provence), Paleolithic presence along the coastline in southern Morocco (collected with University of Perpignan), pre-Columbian occupation in West Indies and occurrence and impact of hurricanes (St. Martin). In this last study, we use the isotopic data ($\delta^{18}\text{O}$ and $\delta^{13}\text{C}$) analyzed on the ostracodes (*Cyprideis* and *Perissocytheridea*).
- Calibration of ostracodes (collected with **J.-Ch. Massabuau** and **L. Corbari**).
- Neogene marine and nonmarine ostracodes from Aquitaine Basin and Morocco (collected with **J.-P. Colin** and **D. Nachite**).
- Morphology of the ostracodes in collaboration with **D. Danielopol**.

Thesis supervision: **Chahira Zaibi** (University of Sfax, Tunisia) for the evolution of the lagoons along the Gulf of Gabes between Sfax and Oued Akarit, Tunisia.

Jean-Paul Colin

- Associate editor (ostracode papers) for the *Revue de Micropaleontologie*.
- Vice-President Reserve Naturelle geologique de Saucats-La Brede (Aquitanian and Burdigalian stratotypes) Upper Cretaceous ostracodes of India with **B. Andreu**.

- Recent lacustrine ostracodes of Wallis and Futuna with **C. Meisch** and **N. Mary**.
- Upper Jurassic ostracodes from Lebanon with **J. Dejax**.
- Revision of Cretaceous conchoecids with **L. Kornicker**.
- Nonmarine Upper Jurassic ostracodes of the Ile d'Oleron, SW France.

Sylvie Crasquin-Soleau

- I supervise two PhDs. The first one is on the Late Permian ostracods from deep environments from South China by **Yuan Aihua** (Wuhan University, China), and the second one on the Permian ostracods from central Thailand by **Anisong Chitnarin** (Korat University, Thailand).
- All my personal research in 2006-2007 is focused on Permian-Triassic boundary ostracods. I mainly worked in South China in collaboration with Wuhan University. I am working on the ostracods of the Permian-Triassic stratotype in Meishan. The systematic revision is nearly finished. At the same time, I studied the ostracods of the parastratotype in Bulla section (Italy). The paper is in progress.
- In collaboration with organic geochemistry and sedimentology (**Steve Kershaw** from Uxbridge University), we analyzed the problem of anoxia (or not) associated with the microbialites during the earliest Triassic. I proposed a first outline for the turnover of the Paleozoic-Mesozoic ostracods.

Claude Guernet

- Distribution of ostracodes in the Lutetian of Grignon (Paris Basin) Systematics and ecology (in collaboration with geochemists from the University Pierre and Marie Curie and with paleontologists of the Museum National d'Histoires Naturelles from Paris)
- Research topics in 2006-2007 include Oligocene, Neogene, and Quaternary of the Mediterranean area.

Pierre Marmonier

Activities in 2006:

- Addendum to the description of *Marococandona* Marmonier, Boulal and Idbennacer; the type species of the genus is *Marococandona danielopoli*.
- Description of the stygobiotic crustacean *Dolekiella europaea* (Ostracoda, Limnocytheridae) from southern France. A collaboration with **G. Zsolt** (Hungary), **M. Artheau**, **J.P. Colin** (France) and **D.L. Danielopol** (Austria), accepted for publication in *Vie Milleu*.
- Strategy for the protection of rare subterranean ostracods. We used the example of two species from southern France. Collaboration with **D.L. Danielopol** (Austria) and **M. Artheau** (France) was accepted for publication in *Freshwater Biology*.

Vincent Perrier

I defended my PhD several weeks ago: Vincent Perrier, *Biodiversity, and ecological significance of the myodocopid ostracods (Crustacea) from the Upper Silurian of Europe*. University Claude

Bernard Lyon 1, France, 04/04/2007. Supervisors: **Jean Vannier** and **David Siveter**. Jury: **Sylvie Crasquin-Soleau**, **Ewa Olempska**, **Christian Gaillard**, and **Catherine Girard**.

GERMANY

Correspondent: **Dietmar Keyser**

Simone Nunes-Brandao

She is finishing her dissertation on the deep sea ostracods in the Antarctic Ocean. She is combining the molecular with the conservative taxonomy. This way she can show that the biodiversity in the Antarctic deep Sea is higher than expected.

Claudia Dojen

- Ostracodes from the Silurian-Devonian boundary in SE Anatolia (Turkey).
- Lockhovian ostracodes from the Spanish Pyrenees.
- Planned project: September-December 2007 at the University of California, Riverside, to study Early Devonian ostracodes from Nevada.
- Two papers will be submitted within the next few weeks:
 - **DOJEN, C.**, New data on Ostracoda and Early Devonian palaeobiogeography: *Bulletin de la Soci t  geologique de France*, Special Issue, Contributions to the First International Palaeobiogeography Symposium, Paris, July 2007.
 - **DOJEN, C.** and Ahlers, C., Spezialkartierung der mulde am Glockenberg (Ober-Harz, Mittel und OberDevon) mit Mikrofossilien (Conodonten, Ostrakoden, Dacryoconariden, Homocteniden). [Special mapping of the Glockenberg-Synform in the NW Harz Mountains (Middle and late Devonian) with microfossils (conodonts, ostracodes, dacryoconarids, homoctenids)]. *Zeitschrift Deutsche Geologische Gesellschaft*.

Peter Frenzel

- I am finishing my Habilitation thesis on Recent and Holocene ostracods and foraminifers from the Baltic Sea and their use as bioindicators. The focus lies on ecology and taxonomy as well as on applications in Quaternary geology, archaeology, and biological monitoring.
- An atlas of Baltic Sea ostracods species is in preparation, together with **Dietmar Keyser**.
- **Finn Viehberg** and I are working together on an ecological review, including an ostracod-based transfer function for salinity.
- After moving from Rostock University to Jena University in Thuringia in 2005, I started a new program concerning ostracods and foraminifers in saline waters of central Germany.
- I am preparing a project on Recent and Quaternary ostracods of the Tibetan Plateau.

Eugen Karl Kempf

- On the first days of October 2006, the second index from level 2 (stratigraphy) of the *Kempf Database Ostracoda* could be published on CD-ROM with the title *Recent Nonmarine Ostracoda of the World*. This Index D covers nearly all modern species, described either as living or dead (if only the shells had been found or documented). Thus, with more than 27,500 datasets, a unique instrument of reference became available.
- At present, my work is concentrating on the second set of supplements to the hitherto published indices and bibliographies, forming parts 11-15 of the series *Index and Bibliography of Nonmarine Ostracoda* as well as *Index and Bibliography of Marine Ostracoda*. I am trying to publish a 2007 edition on CD-ROM later this year.

Dietmar Keyser

Dietmar continues his research on the ecology and morphology of recent ostracods. After the near completion of the subrecent ostracods of the Aral Sea, he is now evaluating the influence of pollution and changing environment on the distribution of ostracods in the Baltic Sea, together with **P. Frenzel**, **B. Scharf** and **N. Aladin**. He also continues the work on the calcification of the ostracod carapace.

Alan Lord

- Several projects on Lower Jurassic Ostracoda.
- Holocene of Portugal.
- Pleistocene-Holocene of Denmark and southern Sweden.

Friedrich Luppold

- My current research on ostracods is to generate a biostratigraphic zonation from the Lower Cretaceous of the Lower Saxony basin.
- I am investigating some wells of middle-upper Albian age from the city of Hannover. There are some activities for correlation with other wells in the Hannover region.
- Jurassic activities are restricted to temporary sections of highway construction sites. There are some interesting glendonite horizons, which are discovered for the first time at this latitude.
- Stable isotope investigations on special ostracod species, sediments, belemnites, and glendonites are in preparation.

Renate Matzke-Karasz

Ongoing research includes:

- Reproduction biology of freshwater ostracods.
- Spermatology and investigation of sperm-egg interactions in freshwater ostracods.
- Additional appendages in giant African freshwater ostracods (together with **Koen Martens**).
- Taxonomy and micromorphology of freshwater ostracods.
- Palaeoecology of ostracods.

- One of the partners of the EU Marie Curie Research and Training Network ‘SexAsex.’ Anthropologist and chromosome specialist **Dr. Stefan Muller** and Renate form the Munich post of the network, responsible for karyological, histological and spermatological research on *Eucypris virens*, our model organism. Within this frame, **Radka Symonova** (Prague) is doing her PhD here in Munich.

Steffen Mischke

- I collected surface sediment samples from more than 180 lakes on the Tibetan Plateau in the last few years and established an ostracod-based transfer function to infer electrical conductivities as an indicator of past salinities.
- In another project, I tried to explore the degree and effects of lake contamination on the ostracod assemblages as a result of oil pumping in China’s largest oil field.
- I investigated Middle Pleistocene lake sediments in the Qaidam Basin which indicate the existence of a large lake in a presently dry desert environment and hope to receive some more detailed dating to learn more about the timing of lake evolution.
- I applied for funding for a project to couple existing ice core records from the Tibetan Plateau with nearby lake records, with the aim to achieve a better understanding of the ice core and lake sediment proxies and to improve the ice core chronologies through a correlation of both records.
- I applied for funds to use ostracods as indicators of past moisture availability in the Near East region.
- In 2008 I will work at the Limnological Research Center of the University of Minnesota (**Professor Emi Ito**) as visiting scientist for twelve months, funded by the German Research council. I will study ostracod samples from central Mongolian lakes with the aim to build an ostracod-based transfer function for Mongolia and northern China after ostracod data from our samples are merged with those from samples collected by **Emi Ito** and **Koen Martens** in western Mongolia.

Roger Schallreuter

Current activities of Roger are the study of Late Ordovician ostracodes from Sardinia and Ordovician ostracode palaeobiogeography of Gondwana.

Burkhard Scharf

Werner Hollwedel and I have finished and published a faunistic work on the cladocerans and freshwater ostracods of Lake Zwischenahner Meer.

Michael Schudack

Research:

- Research projects on the Lower and Upper Jurassic and Lower Cretaceous of various areas in Europe and North America.
- Main focus on biostratigraphy, paleoecology, biogeography, paleoclimatology, and stable isotope shell geochemistry.

- Secretary of the International Research Group on Ostracoda (IRGO) for the period of 2005-2009. Maintains webpages of IRGO at <http://userpage.fu-berlin.de/%7Epalaeont/irgo/irgohome.html>

Thesis supervision:

- Early Cretaceous ostracods from the Rocky Mountains, USA (**Benjamin Sames**).
- Biogeography and database of Early Cretaceous nonmarine Ostracoda, as exemplified for selected European basins (**Kerstin Zobel**).
- Ostracod biostratigraphy and microfacies of the Nordsteimke Member (Kimmeridgian, Upper Jurassic) near Wolfsburg, Germany (**Nadine Siegling**).
- Microbiostratigraphy (Foraminifera and Ostracoda) of the Lower Jurassic from Gross Schoenebeck borehole, Brandenburg, Germany (**Karoline Fischer**).

New research projects:

- Palaeobiogeography of marine Early Cretaceous Cytheroidea (Ostracoda) on both sides of the opening of the North Atlantic (North American, Western Europe).
- Geochemistry of late Quaternary ostracods from lakes on the Tibetan Plateau (under the frame of a new DFG priority program about the climate on the Tibetan Plateau).

Antje Schwalb

Recently started a new research projects on the Yucatan Peninsula, a contribution to the Lago Peten Itza Scientific Drilling Project (PISDP), and in southern Tibet, both collaborative research initiatives funded by the Deutsche Forschungsgemeinschaft.

Students:

- **Liseth Perez** (PhD student, co-advisor **Burkhard Scharf**) is conducting a limnological survey across the Yucatan Peninsula in order to build a training set from ecological, aquatic geochemical and limnological data. She will apply transfer functions and interference statistics to species assemblages of ostracodes from long cores recovered from Lake Peten Itza in February-March 2006, in order to help decode the late Quaternary climate history of the Neotropics.
- **Claudia Wrozyna** (Diploma student) is working with ostracode species assemblages from surface sediments and outcrops in the Lake Nam Co catchment (southern Tibet) and the Zada Basin (southwest Tibet) in order to get a first overview on Late Quaternary lake level changes (in cooperation with **Steffen Mischke** and **Peter Frenzel**).

Henning Uffendorde

Henning is engaged as an official volunteer at the Museum of the Geoscience Centre, University of Goettingen, after a pause due to various health problems. During 2006 he continued his work on the published part of the ostracode collection of Lienenklaus (1894-1900). Since June 2006 he was called in the scientific project concerning the drill site Wallau B98-BK5 (Early Oligocene, southern Hesse) in collaboration with **Dr. G. Radtke**, HLUG, Wiesbaden, and **Prof. E. Martini**, Frankfurt.

Hungary

A. Szuromi-Korecz and Emőke Tóth

Works in progress:

- Neogene marine, marine brackish and limno-brackish fauna from Hungary.

M. Monostori

- Eocene ostracods and their paleoecology in Hungary.
- Oligocene ostracods from Hungary and their paleoecology.
- Cretaceous marine and nonmarine ostracods from Hungary.
- Jurassic marine ostracods from Hungary.
- Triassic marine and nonmarine ostracods.

IRAQ

Sanad A. Al-Khashab

- I am working on Cretaceous Ostracoda from various parts of Iraq. I have projects this summer to collect samples from the north and from the western desert of Iraq (Jurassic).
- I have three unpublished papers about Cretaceous Ostracoda; I will finish them in about 4 months.

Ibrahim Y. Al-Shareefi

He completed his PhD thesis on the biostratigraphy of Ostracoda and sedimentological study of Upper Cretaceous from selected wells in northwest and middle Iraq.

S.S. Al-Shjeikhly

Continues his work on Recent and Cretaceous Ostracoda from Iraq.

W.Y. Al-Ubide

Continues his research on Cretaceous Ostracoda from Iraq, in particular, paleoenvironmental analysis.

Nisreen M. Aziz

- Continuing his research on Tertiary Ostracoda from Iraq.
- Research student—**H. Khaliel**, who just started her M.Sc research on Lower Miocene Ostracoda from north Iraq.

Saleh K. Khalaf

- Continued his work on Cretaceous and Tertiary Ostracoda from Iraq.
- Research student: **Mr. A.M. Hussein**, investigating the biostratigraphy and sedimentology of Upper Cretaceous-Lower Tertiary formations from selected locations in northern Iraq.

ISRAEL

Avi Honigstein

- Continues with Mesozoic-Cenozoic studies of assemblages from Israel and adjacent countries.
- A poster on Holocene ostracodes from the eastern Mediterranean (Maddocks *et al.*) was presented at a Geological Society of America meeting.
- A study on marine Pliocene ostracodes (together with **N. Mostafawi**, Kiel) was submitted to Stratigraphy (Ilani *et al.*).
- Avi was on a 4-month sabbatical leave at the U.S. Geological Survey, Denver, Colorado, USA with **Dr. E. Brouwers**, studying Eocene material from Pakistan and Abu Dhabi. A joint study is planned, and Elly is busy preparing the samples for this project

ITALY

Correspondents: Giuseppe Aiello and Diana Barra

Roma Tre University

The Roma Tre ostracodologist group (Department of Earth Sciences) engages in research concerning Neogene and Quaternary marine, brackish, and freshwater ostracods of the Mediterranean area:

- **Elsa Gliozzi** and **Francesco Grossi** (PhD student) are working on the late Messinian Lago-mare ostracods in the central and eastern Mediterranean, through the detailed analyses of sediment cores and sections located in northern and central Italy and central Crete. During 2006, four Italian sections have been studied, located in Romagna (Montepetra section), Marche (Trave and Maccarone sections), and Tuscany (Ponte Ginori borehole). The palaeoecological analyses, conducted using a multivariate approach, showed that the short (250 ka) Lago Mare event underwent palaeoenvironmental changes mainly linked to variations in salinity and depth. The integration of the biostratigraphical data collected during the last three years led to defining a short but significant biostratigraphy valid for the Mediterranean Late Messinian interval. In particular, two biozones have been recognized and defined (or re-defined): The *Loxiconcha muelleri* zone (interval zone) and the *Loxocorniculina djafarovi* zone (regional distribution zone).

- **Elsa Gliozzi** and **Silvia Ligios** (PhD student) are studying the Late Miocene brackish ostracods from central and southern Italy, mainly from a taxonomical point of view. After the revision of the genus *Tavanicythere* and *Loconchissa*, work on the taxonomy of Italian Tortonian-early Messinian leptocytherids is in progress, dealing in particular with the subfamily Mediocytherideinae. This research will also provide new insights into the palaeobiogeography and the biostratigraphy of the brackish domain.
- **Elsa Gliozzi** and **Maria Chiara Medici** (post-Master student) engage in the taxonomical study of a rich Late Pliocene-Early Pleistocene freshwater ostracod fauna coming from the Tiberino Lake, a fossil ancient lake located in central Italy. At present, at least two endemic Candoninae lineages have been recognized.
- **Costanza Farance** is mainly involved in the study of Neogene and Quaternary marine ostracods. Together with **Iliaria Mazzini** and **Elsa Gliozzi**, she has studied the Pliocene-Quaternary ostracods collected from the “classical” Quaternary succession cropping out at Monte Mario (Rome). Through a multivariate analysis approach, palaeoenvironmental variations have been identified during the early Pleistocene. Moreover, the Monte Mario ostracod assemblage has been studied from a taxonomical perspective, leading to the identification of four “northern guest” ostracod species. At present, **Costanza Faranda** engages in the study of marine ostracods from the early Messinian Mediterranean interval, in the frame of an Italian Research Project devoted to the palaeoenvironmental reconstruction of the Mediterranean immediately before the onset of the Messinian Salinity Crisis.
- **Iliaria Mazzini** has spent several months at NIWA (National Institute for Water and Atmosphere), Christchurch, New Zealand, studying the freshwater ostracod fauna recovered from several piezo meters and wells along rivers within Canterbury, South Island, and from lakes and ephemeral water bodies scattered in the North Island. The research is part of a wider survey, which aims to estimate the biodiversity of invertebrate fauna in freshwater and groundwater environments of New Zealand.

University of Naples “Federico II”

Guiliano Ciampo is working on Quaternary shallow water assemblages of southern Italy.

Giuseppe Aiello and Diana Barra

Our main activities are:

- Ostracod assemblages of the Pleistocene sapropelitic sediments of Montalbano Ionica (southern Italy).
- Freshwater, paralic and marine Quaternary Ostracoda of Naples and Salerno Provinces (southern Italy).
- Recent marine littoral assemblages of Porto Cesareo (Apulia, Ionian Sea).
- Pliocene circalittoral-bathyal ostracods of Avellino Province (southern Italy).
- Neogene (Tortonian-Messinian) ostracods of Morocco (Atlantic side).
- The checklist of ostracods living in Italian waters has been updated. It is available at the website: <http://www.sibm.it/CHECKLIST/principalechecklistfauna.htm>.

University of Parma

- **Giampaolo Rossetti** (Department of Environmental Sciences, University of Parma) is currently undertaking the study of taxonomy and systematics of the Recent Darwinulidae, in cooperation with **Koen Martens** and **Isa Schoen** (Brussels) and **Ricardo Pinto** (Sao Paulo). He is Principal Investigator (Parma lab) of the EU project SexAsex (From Sea to Asex: a case study on interactions between sexual and asexual reproduction), based on *Eucypris virens* as model organism (<http://evirens.group.shef.ac.uk>).
- At the University of Parma, within the project SexAsex, **Maria Joao Martins** (Portugal) is conducting part of her PhD work on “*Ecology of ostracods (Ostracoda, Crustacea) in temporary freshwater habitats with special reference to the geographical parthenogen Eucypris virens (Jurine).*”
- **Valentina Pieri** has successfully defended her PhD thesis on “*Studies on biodiversity, distributional patterns and ecology of Recent non-marine Ostracods and their possible use as water quality indicators.*” A new edition of the checklist of Recent freshwater ostracods from mainland Italy and nearby islands is currently in progress. Other funded research projects focus on the diversity of ostracods in alpine springs.
- **Valeria Rossi** and **Paolo Menozzi** (Department of Environmental Sciences, University of Parma) continue their studies on population ecology and genetics of Italian freshwater ostracods (especially the genus *Heterocypris*).

University of Modena E Reggio Emilia

Antonio Russo and **Giulia Fonda** (PhD student) are working on Miocene Northern Apennines ostracods and Recent Assemblages, mainly in Adriatic waters under “cold seep” influence.

Pietro Miculan

I have very few possibilities to work on ostracods. However, I continue to be interested in Neogene ostracod faunas of the Mediterranean area.

Francesco Sciuto

- Research fields include the palaeoecology and stratigraphy of Plio-Pleistocene marine ostracod assemblages.
- Ongoing research includes living and dead ostracod assemblages from the Mediterranean and Thailand.

JAPAN

Keiichi Hayashi

Ongoing research:

- Cretaceous nonmarine fossil ostracodes in East Asia

Toshiaki Irizuki

- Taxonomy and paleobiogeography of Miocene and Pliocene Ostracoda around Japan.
- Migration and speciation of Ostracoda in eastern Asian bays during the Quaternary.
- Ostracoda in tsunami deposits.
- Relationships between Recent ostracode assemblages and anthropogenic influences
- I have six postgraduate students who are studying mainly ostracodes:
 - **Shigenori Kawano**—Temporal changes of Recent Ostracoda and anthropogenic pollution in bays of northern Kyushu, southwestern Japan, during the last one hundred years.
 - **Hokuto Iwatani**—Late Pliocene Ostracoda from shallow deposits along the Pacific coast of Japan.
 - **Hiroki Ogusa**—Population dynamics of brackish and bay Ostracoda in Lake Nakaumi, southwestern Japan.
 - **Asumi Gotomyo**—Recent Ostracoda and anthropogenic pollution in Seto Inland Sea, southwestern Japan.
 - **Ayumi Haruki**—Holocene Ostracoda from borehole cores in Omaezaki, central Japan.
 - **Ryohei Kaewakami**—Temporal changes of Recent Ostracoda in Lake Nakaumi, southwestern Japan, during the last few hundred years.

Hirokazu Ozawa

- Is at the National Science Museum of Japan, Tokyo (in Dr. Yoshihiro Tanimura's lab)
Current research includes:
 - Ecology and taxonomy of modern ostracods in the Japan Sea and adjacent areas (with **Dr. Takahiro Kamiya**) Taxonomy, palaeoecology and palaeobiology (e.g., origin, extinction, speciation, and migration) of ostracods since the Miocene from Japan Sea coasts
 - Palaeobiogeography and palaeoecology of a brackish inner bay fauna from Japan and east-southeast Asia in late Cenozoic, based on ostracods from the Kanto region, central Japan
 - Sexual dimorphism with paedomorphosis on hingement and phylogeny of *Loxiconcha* species from Japan

Tatsuhiko Yamaguchi

- Early Eocene ostracodes from Washington, USA with **Mr. Goedert** (The Burke Museum of Natural History and Culture, University of Washington).
- Examination of Paleogene ostracodes from Hokkaido, northern Japan with **Dr. Kurita** (Niigata University).

Moriaki Yasuhara

I am working on Atlantic deep-sea ostracodes with **Tom Cronin**. My primary research interest is to know how Quaternary climate change and human activity affect marine ecosystems. Further details on my research and PDFs of my papers are found on my website <http://ostracoda.net/>.

LUXEMBURG

Correspondent: Karel Wouters

Claude Meisch

- Is continuing his research on the taxonomy and distribution of the freshwater Ostracoda of Europe.
- He is a partner of the SexAsex project on *Eucypris virens* of the European Commission.
- He is working on the evolutionary morphology of the Ostracoda in general.

MEXICO

Ana Luisa Carreno

- Recent marine ostracodes from the equatorial offshore Brazil.
- Cretaceous ostracodes from the Reconcavo Basin, Brazil (with **Joao Carlos Coimbra**, UFRGS).
- Continuation of my long-term research on Baja California Tertiary calcareous microfauna and microflora (ostracodes, foraminifers, calcareous nannoplankton).
- Paleoenvironmental reconstruction of Mexican lacustrine Quaternary lakes based on ostracode paleoecology and trace element shell chemistry (with **Manuel R. Palacios-Fest**, Terra Nosta Earth Science Research).
- Students:
 - **Violeta A. Romero-Mayen**, *Registro climatico en laguna Salada, Baja California, Mexico durante el Neogeno tardio usando paleoecologia y geoquimica de elementos traza en conchas de Ostracoda*, MSc, Posgrado en Ciencias Biologicas, UNAM (with **Manuel R. Palacios-Fest**, Terra Nostra Earth Science Research).

Maria Luisa Castillo

- Marine Holocene ostracods from the Marine Continental Economic Zone of Mexico.
- Students:

- **Alejandro Matias-Lozada**, *Diversidad y distribución de la Ostracofauna de la Plataforma Continental de Tamaulipas*, BSc. Thesis Biologist, Facultad de Ciencias, UNAM.
- **Luis Fernando Lopez Gutierrez**, BSc., Thesis Biologist, Universidad Autonoma de Aguascalientes.

Alejandro Rodriguez

- Finishing my PhD on a late Holocene sedimentary sequence from a crater lake at western Mexico (Lake Santa Maria del Oro) using ostracod assemblages, shell chemistry (stable isotopes and trace elements) and sediment geochemistry.
- Working on Recent and Holocene nonmarine ostracodes from other lake sediments along central Mexico.
- Involved in a paleolimnological project, reconstructing the late Quaternary environmental and climatic variability of central Mexico (Transmexican Volcanic Belt). This multi-proxy paleoenvironmental research project includes magnetic properties, sediment geochemistry, pollen, diatoms, and ostracod analyses.
- I am mainly interested in:
 - Palaeoclimatic and palaeolimnologic reconstruction from lake sediment analyses, based on ostracod composition and shell and sediment geochemistry.
 - Study of the modern ostracods and distribution in the lakes of central Mexico.
 - Paleolimnology and ecology of diatoms.

MOROCCO

Nachite Driss and Ratiba Bekkali

- Neogene lacustrine Ostracoda of Saiss Basin (north of Morocco) and limno-brackish Ostracoda from the northwest of Morocco.
- Neogene marine Ostracoda of the north of Morocco.
- Biodiversity (ostracods, foraminifers) in two estuaries of the Atlantic: Urdaibai (northern Spain) and Tahadart (north Morocco): a comparative study. In collaboration with **Julio Rodriguez Lazaro** and **Maite Martin** (UPV University, Bilbao, Spain).
- Ostracoda as biological indicators of the ecologic stress in the Nador Lagoon (northeast coast of Morocco) with **Zoulikha Irzi** (Mohamed I University, Oujda, Morocco).
- Holocene Ostracoda of the Alboran Sea with **A. El Hmaidi** (Moulay Ismail University, Meknes, Morocco).

NEW ZEALAND

Correspondent: Stephen Eagar

Stephen Eagar

- Stephen continues his work on the shallow water marine faunas of the south Pacific Islands. In particular, he has been examining the marine and freshwater faunas of Palmyra Atoll and the freshwater ostracods from a core on Espiritu Santo, Vanuatu.
- He made a trip to the Natural History Museum in London in 2006 to examine material in the collections.

Kerry Swanson

- Kerry's Marsden-funded MSc student **Francie Gaiger** graduated first class Honors in April 2007. Francie's thesis titled "*Mid-Pleistocene extinction of Ostracods*" focused on podocopids from ODP Site 1125 on the Chatham Rise, east of South Island.
- Kerry and **Thomas Jellinek** are putting the finishing touches to a paper which describes inter-basinal anatomical variations in species of *Zabythocypris* and their implications for our interpretation of dispersal and diversification in the deep ocean.
- Kerry is authoring a book on fossilization and microfossils to be published by Canterbury University Press (first draft completion data August 2007).

POLAND

Correspondent: Janina Szczechura

Jarmila Krzminska

Works mostly on ostracodes from lakes of the Late Glacial, from the southern Baltic Sea and its pericoastal areas as well as from Pomerania. The ostracodes are used as indicators of climatic and environmental changes.

Agnieszka Mackiewicz

Completed her Doctor's thesis on Recent benthic ostracodes from Hornsund and published a part of it in 2006. She has ceased working with ostracodes.

Tadeusz Namiotko

Is involved with the taxonomy and ecology of Recent and subfossil (Quaternary) freshwater Ostracoda and their applications to palaeolimnology, stygobiology and evolutionary biology. Current research activities include:

- ISO15, Berlin 2005 (abstract volume, Kohring and Sames, 2005), *Ostracodology—linking bio-and geoscience*.

- Evolutionary ecology of reproductive modes in *Eucypris virens* (together with **Dr. Jochen Vanderkerkhove** within EU Research Training network coordinated by **Koen Martens**).
- Morphology, diversification, and phylogeny of stygobiotic and stybophilic Ostracoda (together with **Dan L. Danielopol**).
- Reconstruction of climate variability as expressed in the oxygen isotope composition of past precipitation derived from ostracods in the profundal lake sediments (ESF project coordinated by **U. von Grafenstein**).
- Subfossil ostracods as indicators of present and historical food and habitat conditions for ichthyofauna.

Ewa Olempska

Continues her numerous projects:

- Devonian ostracodes from the Holy Cross Mountains.
- Late Cambrian phosphatocopids from North Poland.
- Carboniferous ostracodes from China.

Jolanta Smolen

Continues her work on the distribution of *Cypridea* representatives in the Lower Cretaceous (mostly Beriasian) of Central and Southeastern Poland.

Janina Szczechura

Is interested in Middle Miocene ostracodes and the co-existing microfossils of southern Poland, including the Carpathians as well as the Fore-Carpathian Depression.

Barbara Wojtasik

Is working up her years of observation of *Tannocypris glacialis* (G.O. Sars) from freshwater lakes in Spitsbergen. She observed the seasonal distribution, reproduction, and ontogenetic development. She is simultaneously studying this species in culture.

Portugal

Maria Cristina Cabral

Ongoing research:

- Holocene ostracodes from different cores of coastal lagoons and estuaries in Portugal.
- Recent ostracodes from saltmarshes from Portuguese estuaries (Mira and Lima rivers, if possible, Tagus and Sadotoo).
- Jurassic ostracodes from the Lusitanian Basin, Portugal: marine Sinemurian, Pliensbachian, and Toarcian ostracodes; non-marine Oxfordian ostracodes.

- Pleistocene non-marine ostracodes from Algarve, South Portugal (with **J.P. Colin** and **P. Carbonel**).

ROMANIA

Marius Stoica

- I am teaching the micropaleontology course at Bucharest University. I completed my PhD thesis a few years ago on Purbeckian ostracods in Romania. This is the first paper in eastern Europe (except for Poland) dealing with Purbeckian ostracods. It is published in Romanian. I hope to publish the main parts of the thesis soon in an international journal. I described forty-seven species of ostracods from the Early and Middle Purbeck and eight new species. I tried to prove the presence of sexual dimorphism for some *Cypridea* species. If anyone needs a hard copy or PDF, I can send it to you.
- I am now concentrating on Miocene-Pliocene ostracods from Paratethys.

RUSSIA

Correspondent: Anna Stepanova

Vladivostok Group, Far East Branch

A.G. Bashmanov

He is a post-graduate student in the Far East Branch, Valdivostok group. He is studying the fauna, distribution, and seasonal dynamics of pelagic ostracods (Ostracoda: Halocyprididae) of the Arctic Ocean and adjacent waters.

V.G. Chavtur

- Working on a revision of pelagic ostracods (Ostracoda: Halocyprididae) of the World Ocean.
- Fauna, distribution, and seasonal dynamics of pelagic ostracods in the Arctic and Southern Oceans. Taxonomy and distribution of benthic ostracods (Myodocopina, Cladocopina) in the Far Eastern Seas and adjacent waters.

E.I. Schornikov

He continues his research on ecology, morphology, and taxonomy of ostracods.

O.A. Tsareva

She is a Senior Engineer of the Museum of Marine Biology. She is studying the taxonomy and distribution of ostracods of the genus *Rabilimis*. She is making a catalogue of holotypes of ostracods stored in their museum.

Maria Zenina

She is a post-graduate student, studying Ostracoda as indicators of environments and dynamics of water ecosystems (based on materials from the Peter the Great Bay, Sea of Japan).

Moscow Group

Anna Stepanova

- A comparative study of the distribution of modern ostracods in the Kara and Laptev Sea. Results were summarized and published in the paper “*Comparison study of the modern ostracod associations in the Kara and Laptev seas: ecological aspects,*” Marine Micropaleontology, 2007.
- Collaborative research with **Dr. Carlos Alvarez-Zarikian** (IODP, Texas), analyzing ostracod assemblages from IODP Site U1314 from the North Atlantic during the last glacial cycle. Preliminary results were [resented at the 2006 AGYU Fall Meeting
- Participation in a field study in the Arkhangelsk region (White Sea) to sample coastal outcrops of Eemian age for future ostracod studies
- Completion of micropaleontological analysis of over 250 samples from core PS51/154 from the western continental slope of the Laptev Sea (276 m water depth). The ostracod, foraminifer, and mollusk data were presented at a number of conferences and together with stable isotopic data will be published in the near future
- Identification of ostracods from coastal outcrops of Pleistocene age of the Yenisei River and Yenisei Bay as part of the complex investigation of Quaternary geology of this region (research conducted by VNII Okeangeologiya, St. Petersburg, Russia).

Ekaterina Tesakova

Main activities for 2006 included:

- Building of a sea level curve based on the results of an investigation of ostracods from the Callovian-Oxfordian boundary in the village of Dubki in central Russia. The results show sea-level and bottom water temperature changes. A non-estuarine type circulation of water masses was revealed, as well as other paleogeographic peculiarities of the basin. Ostracodes proved to be especially important biostratigraphic tools in this region.
- Study of ostracods of Santonian age from the Saratov region (village of Vishnevo). Two new species were described, and their stratigraphic importance has been shown.
- Study of ostracods of Callovian, Oxfordian, and Kimmerigian age from the Voronezh anticlinorium (village of Trubutsino) and their stratigraphic importance.

Main activities for 2007 include:

- Study of ostracods from the Kursk region. Two new species are described.

- Study of ostracods from the Callovian-Oxfordian boundary of southern France. The results were compared with the ostracod data from the same time interval of central Russia (Povolzh'e region). Strong differences in taxonomic composition were revealed between these two regions, although similar trends in the distribution of ostracods along the sections from the two regions were also observed.
- Study of ostracods from the classical section of Bathonian age from central Poland. Many new taxa were revealed. Based on the analysis of the published data, we conducted a paleogeographic study, which showed that there was a sub-latitudinal strait in Poland which had been active in the Bajocian, later closed in the Bathonian, and reopened again in the Callovian.

SPAIN

Maité Martin-Rubio

- Quaternary ostracods from the south Bay of Biscay.
- Biodiversity (ostracods, foraminifers) in two estuaries of the Atlantic: Urdaibai (northern Spain) and Tahadart (north Morocco): a comparative study. In collaboration with **Driss Nachite** and **Ratiba Bekkali** (Tetouan, Morocco).
- Biomineralization processes in cultured nonmarine ostracods and palaeolimnological application, in collaboration with **Pere Anadon** and colleagues (CSIC, Barcelona).
- Responsible for a research team of palaeoenvironmental changes in the Quaternary of the southern Bay of Biscay.

SWITZERLAND

Laurent Decrouy

- Doing a PhD in Earth Sciences at the University of Lausanne.
- I am currently working on living and fossil ostracods from Lake Geneva. The aim of the study is to better understand the way ostracods incorporate minor elements such as Mg or Sr in their shells and how the carbon and oxygen stable isotopes composition from host water is recorded in ostracod shells during valve calcification. We will also attempt to reconstruct palaeoenvironmental conditions in Lake Geneva using ostracod geochemistry and morphometry.

TURKEY

Okan Kulkoyluoglu

Activities:

- We have been working ostracod taxonomy and systematics, ecology, and distribution along with constructing past history of environments. Our work involves five different projects. In general, our focus is to understand ecological optimum and tolerance levels of freshwater ostracods in a variety of environments. We try to find possible answers for the questions below:
- Recently, I have introduced a new term called “pseudorichness,” which underlines that the ratio between numbers of non-cosmopolitan and cosmopolitan species can provide good information about the quality of aquatic environments. Increasing the numbers of cosmopolitan species may suggest low water quality of newly developing habitats. The implication of this hypothesis requires detailed knowledge about ostracod habitat preferences, ecology, and tolerance levels as well as biological characteristics of ostracods.

Students:

- **Necmettin Sari**, master’s student at Abant Izzet Baysal University, Bolu is working on the relationship between freshwater ostracods and their ecological preferences in the city of Bolu.
- **Muharrem Balci**, master’s student at Abant Izzet Baysal University, Bolu is finishing his thesis on a small natural lake, Lake Sunnet, Bolu.
- **Derya Akdemir**, PhD student at Marmare University, Istanbul, is working on a large-scale collection from two cities in eastern turkey, where there is almost nothing known about Ostracoda

Atike Nazik

- Devonian ecosystems and climate of Turkey (DEVEC-TR), TUBITAK Joint Research and Development project (Turkish Co-Director of the project: **M. Namik**, YALCIN)and PD **Dr. Volker Wilde** (German Co-Director of the project).
- Salinity and climatic condition of Akyatan Lagoon (Turkey), recent sediments (with co-worker **Anne-Marie Bodergat**).
- Implementation of biogeochemical methods on surface sediments of the salt pan in the NE Aegean Sea and investigation of Foraminifera-Ostracoda-Mollusca (with co-worker **Ipek F. Barut**).
- Thesis supervision: **Deniz Ibilioglu**, PhD Thesis, *Environmental interpretation and micropaleontological investigation (planktonic foraminifer and ostracod) of the Paleogene sequence in the Elazig region (Eastern Turkey)*.

UNITED KINGDOM

Martin Angel

- I am still working on the systematics of halocyprids. Basically, using CMarz samples from the western Atlantic collected on the *RV Ron Brown* in 2006 to depths of 5000 m and a series of samples collected by the Japanese in the Celebes Sea in 2005. This material contains a lot of novel species. The main aim of the *Ron Brown* cruise was to collect fresh material for DNA sequencing, and sixty species were collected. The next cruise will be on the *Polarstern* this autumn to the south Atlantic.
- Working with **Kasia Blachowiak-Samolyk** (Sopot) and **Vladimir Chavtur** (Vladivostok), an atlas of Atlantic planktonic ostracods has been prepared, which is a follow-up to the Southern Ocean Atlas that we prepared a couple of years ago (<http://ocean.iopan.gda.pl/ostracoda/>). This new atlas will be posted on the NHM London website soon.
- I have been working on the systematics of the genus *Metaconchoecia*, splitting it into ten genera and raising its status to that of a tribe (Metaconchoecini).
- I am trying to get the genus *Bathyconchoecia* sorted out. I have something like 30 new species of this poorly known genus that tends to be benthopelagic at great depth (>3000 m). Once again, it looks as though the genus needs to be split up, based on major differences in the structure of the mandibles, as well as carapace characteristics.

John Athersuch

- Commercial biostratigraphy of all sorts
- Particular interest in West African Early Cretaceous and Caspian Quaternary Ostracoda

Ian Boomer

Ongoing activities:

- Maintaining Stable-Isotope Laboratory, University of Birmingham.
- Ostracod research includes:
 - Late Quaternary and Holocene of the Caspian and Black Sea.
 - Holocene climate change in the Aral Sea.
 - Late Glacial and Holocene climate change, NE England.
 - Late Triassic and early Jurassic UK.
 - Geoarchaeological work in SE Turkey.
 - Contributor to discussions on proposed ICDP Lake Van, Turkey.

Carys Bennett

- I am in my second year of my PhD, studying the evolution of ostracods from marine to nonmarine environments in the Lower Carboniferous. The study area is the Midland Valley of Scotland
- I will be giving a talk at the European Ostracod Meeting in Frankfurt, September 2007.

David J. Horne

- In October 2006, after three years on fixed-term contracts, I secured a permanent post as Senior Lecturer in the Department of Geography at Queen Mary, University of London. I maintain my research interests in all aspects of ostracods, marine and nonmarine, fossil and living.
- Current activities include the development of a Mutual Ostracod Temperature Range (MOTR) method of palaeoclimatic analysis using European Quaternary nonmarine ostracods. The MOTR method utilizes the NODE (Nonmarine Ostracod Distribution in Europe) database in conjunction with DIVA-GIS software; a paper outlining the method has been published in *Quaternary Science Reviews* and further development and testing are under way in collaboration with Paco Mezquita (Valencia).
- I continue my GIS and database work in the *SexAsex* project (European Union FP6 Marie Curie Research and Training Network: *From Sex to Asex: a case study on interactions between sexual and asexual reproduction*).

David Siveter

- Early Palaeozoic ostracods (especially myodocopes) and Cambrian (e.g., Chengjiang, China) and Silurian (Herefordshire, UK) lagerstätten
- A paper describing a new Silurian myodocope from the Herefordshire Lagerstätte, the second species with soft parts preserved, was published in 2007.
- PhD students
 - **Carys Bennett**—Early Carboniferous ostracods.
 - **Ma Xioaya**—Fossils of the Chengjiang biota.
 - **Vincent Perrier** (University of Lyon, France) completed his PhD on aspects of Silurian myodocopes from Europe (co-advisor **Jean Vannier**) in the spring, 2007.

Ian J. Slipper

- The University of Greenwich is closing all geology teaching courses; we have one more year to teach out the final undergraduates. My employed work is now mostly centered on SEM and XRD support for MSc pharmaceutical science students; not many ostracods found there.
- In my spare time, I am trying to finish off all of the various projects that I have started—the infamous Stratigraphical Atlas is lumbering towards a completion some 17 years after inception. This last year has seen me actively writing the British Marine Lower Cretaceous chapter
- I have revisited some Cenomanian material and hope to present data on chalk/marl rhythms at Frankfurt this coming September
- Other unfinished projects include a revision of T.R. Jones' material in the Natural History Museum; one spin-off from this has been an investigation into the life and times of William Harris of Charing who supplied Jones with material.
- I also have a growing amount of data on Santonian Ostracoda from southern England which I hope to knock into shape in the future.

- I remain on The Micropalaeontological Society committee as editor of the Newsletter of Micropalaeontology.

Ian P. Wilkinson

- Activities involving ostracods have had to take a back seat in favor of foraminifera during the past year. However, the British Geological Survey has a small project to produce web-based “monographs” called *Taxonomy Online*. I am currently working on Late Jurassic ostracods for this project, which I hope to complete this year.
- I have contributed to a paper on carnivory in ostracods for *Predation in Organisms: A Distinct Phenomenon*.
- I am preparing a paper on the distribution of some early Cretaceous (Neocomian) marine Ostracoda in eastern England/North Sea Basin.

UNITED STATES

Mark Angelos

- I continue to work on a survey of modern nonmarine ostracods from California. I hope to make specimens available to interested parties next year
- I am in the process of creating a web site database of all the museum voucher material, including site data, habitat data, and species photos of the nearly one hundred species

Anne C. Cohen

I have added material to my simple website, which has a tabular key to both subclasses of Ostracoda and all families of Myodocopa, with recommendations of helpful publications and other websites (added when I learn of them), and a list of my publications. This free website takes a few minutes to load and is best viewed with Firefox (free download) or Safari, not Explorer. <http://home.comcast.net/~fireflea2/OstracodeKeyindex.html>

Thomas M. Cronin

I am actively researching ostracodes and foraminifera, sometimes using shell chemistry, from:

- Lacustrine and marine deposits, including Tampa, Chesapeake, Florida, and Biscayne Bays, eastern USA.
- The central Arctic Ocean (IODP Cruise 302, summer 2004).
- Lake Champlain post-glacial (Champlain Sea, glacial Lake Vermont, Holocene Lake Champlain).
- High resolution deep-sea biodiversity/climate records from several North Atlantic deep-sea cores, with post-doc **Moriaki Yasuhara**.

Published papers can be found in various publications, please email me for PDF files.

One interesting anecdote. It might be of interest that the *Loxococoncha* Mg/Ca paleotemperature curve we reconstructed for Chesapeake Bay (Cronin et al., 2003, *Global and Planetary Change*) was incorporated by Michael Mann in his reanalysis of 20th century warming, which germinated the famous “hockey” stick controversy. Mann integrated the Mg/Ca record into his restudy of 1000-year paleotemperature history (2003, *Geophysical Research Letters*). The U.S. National Academy then did an entire volume devoted to the hockey stick curve (NAS, 2006). Osborn and Briffa (2006, *Science*) used it as one of only fourteen records meeting certain criteria to further analyze global warming. In a recent issue of *Science*, Burger (2007) statistically analyzed the fourteen proxy records and we “missed the cut”.

If you are interested in reading what I would call a very derivative application of ostracode Mg/Ca, not just for the ostracodes, but the importance of paleotemperature reconstructions and global warming, these blog sites are entertaining. What you will find is the ostracode record has been accused of being “cherry picked” out of available paleo-records. Take this for what it is worth, a complex scientific issue, but it was kind of nice to be a cherry, until we were rejected. We hope to produce an improved Holocene record from Chesapeake soon. <http://www.climateaudit.org/?p=523>, <http://www.climateaudit.org/?p=1797>

Louis S. Kornicker

Presently working on Hawaiian and cave Myodocopa.

Dawn Peterson

- Research on the marine ostracodes of central Chile and the Galapagos Archipelago; **Kenneth Finger** is working on the foraminifers.
- Ongoing study on the ecological stress on Ostracoda and Foraminifera in a heavily polluted urban tidal lagoon in Oakland, California.
- With the support of the Osservatorio Geologico Coldigioco, I am studying a freshwater hypogean ostracode assemblage from the Grotta di Frasassi in the Marche Apennines of central Italy.

Frederick Swain

- I have been working on habitats of Ordovician Ostracoda.
- A PDF file has been placed on the internet: *Geological History of Carbohydrates*, at <http://www.geo.umn.edu/people/profs/SWAIN.html> and scroll down to Downloadable PDF files.

Don Van Nieuwenhuise

- Continuing SEM work on a catalogue of ostracode “tops” for the Paleogene of the Gulf Coastal region as the UH SEM has been down for a year.
- Working on revision of the genus *Hazelina*.
- Completing several papers on ostracodes of the Paleocene Black Mingo Group.

- Gulf and Atlantic coastal plain ostracode zones using graphic correlation.
- Stone City outcrop with the Stone City core, Claibornian Eocene of Texas.
- High resolution correlation and stratigraphy of the Productive Series, offshore Azerbaijan with M.S. candidate **Eldar Bagirov**.
- Other minor developing work includes:
 - Eocene microfossils of Greenland.
 - Intermontane basins of Montana.
 - Productive Series outcrops, Azerbaijan.
 - Extending hurricane records to five thousand bp on Texas coast.
 - K/T boundary of Texas.

RECENT AND UPCOMING MEETINGS

European Ostracodologists Meeting VI (EOM VI), Frankfurt, 5-7 September 2007. Website: www.senckenberg.de/eom

Finn Viehberg

COME 2006

The successful COME-2006 (1st Canadian Ostracodologists Meeting) was held at the Centre d'Etudes Nordiques, Université Laval in Quebec, Quebec City from November 16-18. It featured one day of talks, as well as an open workshop on taxonomy, useful software, books, and methods. Social events included a dinner on Thursday in Old Quebec City. The presentations of current, past, and future research projects clearly showed once again the enormous potential of ostracodes in the environmental and earth sciences.

A total of three projects focused on the ostracode fauna in nonmarine (sub) Arctic waters. The development of these calibration sets is of high interest and importance, as they will finally reveal modern analogs for paleoecological studies in North America. So far, some fossil assemblages remain without analogs, and the interpretations therefore remain uncertain (**Joan Bunbury**, Ontario; **Brandon Curry**, Illinois; **Martin Sirois**, **Finn Viehberg**, Quebec).

In addition, the announcement by L.D. Delorme (Ontario) to transfer his collection of over six thousand sites (including the environmental data) to the Canadian Museum of Nature in Ottawa (where it is now accessible) was greeted by all participants of the meeting.

Because of the robust “bauplan” of Ostracoda, it is always an immense pleasure at ostracode meetings to cover research topics from the Neogene to the Paleozoic. However, in the future, this may not always be the case, because the number of colleagues involved in projects studying older records decreases steadily, while major questions remain open (*Stratigraphy and taxonomy*

of *Amphissites* from the Permo-Carboniferous; **Larry Knox**, Tennessee), it was decided that the next meeting will be held at the University of Ottawa in early 2008, featuring a visit to the Canadian Museum of Nature, including the Delorme Ostracode collection.

Last, but not least, all participants agree that regular North America meetings (Canada, Mexico, and USA) would contribute to further improve and strengthen the interactions within the thinly spread community of ostracodologists.

Finally, we acknowledge the funds provided by the CEN to organize the meeting.

Finn Viehberg (Organizer)

Reinhard Pienitz (patron)

Participants:

- **Joan Bunbury**, University of Ottawa, Ottawa, Ontario
- **Brandon Curry**, Illinois State Geological Survey, Champaign, Illinois
- **Denis L. Delorme**, Burlington, Ontario
- **Larry Knox**, Tennessee Technological University, Cookeville, Tennessee
- **Martin Sirois**, Universite Laval, Québec, Québec

Don Van Nieuwenhuise

NAMS (North American Micropaleontology Section, SEPM) is sponsoring a symposium entitled: *Geologic Problem Solving with Microfossils II*. Spring break (March) 2009

Venue: Rice University or the University of Houston

Purpose: A showcase of problem-solving with microfossils to stimulate the “cross fertilization” of ideas that result when a diverse group of scientists gather in a common venue. Specifically, the symposium seeks high-quality oral and poster presentations in which microfossils are integrated with allied geoscience data and substantially contribute to solving geologic problems. Presentations that demonstrate new techniques or novel applications are encouraged. There are no restrictions on geologic age (including modern) or geographic area.

Early list of topics for oral presentations and posters:

- Recognition of sea level change—past and future
- Biostratigraphic applications to sequence stratigraphy
- Climate change and modeling
- Chronostratigraphic correlation with microfossils
- Reservoir characterization and biosteering
- Tools and techniques
- Modern environmental analogs and paleoenvironmental analysis
- Applied micropaleontology from a Geologist’s perspective

Future meeting (Jean-Georges Casier)

XXII Réunion des Ostracodologistes de Langue Française.
Meeting at the Royal Belgian Institute of natural Sciences, Brussels, and field trip in the Devonian of the Ardennes. June 2-4, 2008.

Ian Boomer

Upcoming meetings:

Details of past and forthcoming meetings of the Ostracod Group (TMS) can be found at <http://www.tmsoc.org/ostracod.htm>

REQUESTS

Sanad A. Al-Khashab (Mosul University)

Any papers or PDF papers about Cretaceous and Jurassic ostracodes will be greatly appreciated.

John Athersuch

All reprints on ostracods are welcome.

Carys Bennett

I would welcome information on Palaeozoic nonmarine ostracods.

Gabriela Cusminsky

I would like information about resistant eggs and ultraviolet studies in modern lacustrine ostracodes.

Eugen Karl Kempf

It would be of significant help for the work on the *Kempf Database Ostracoda* if ostracodologists would send copies or PDF files of their papers soon after publication. In spite of the technological developments of past decades, providing the literature dealing with Ostracoda for certain reasons has become more complicated or more expensive.

HIGHLIGHTS

Ostracodology in time and space: looking back on Fifteen International Symposia on Ostracoda, and the times in between.

Renate Matzke-Karasz, Michael Schudack, Koen Martens
Springer Science and Business Media B.V. 2007

Abstract

Fifteen International Symposia on Ostracoda (ISO) have been organized between 1963 and 2005, each of them followed by one or more proceedings volumes. In the present study, 906 titles presented at the occasion of one of these fifteen symposia were evaluated regarding their prevailing and their secondary theme or method, thus obtaining a retrospective on the history of ostracod research between ISO1 and ISO15. This review may help in moving ostracodology into the 21st century.

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K. Martens, Department of Biology, University of Ghent, K.L., Ledeganckstraat 35, 9000 Gent, Belgium

Introduction

Naples, Italy, 1963: Dr. Harbans Singh Puri, a pioneer in interdisciplinary ostracod research, organises the first International Symposium on Ostracoda (now generally abbreviated as ISO) at the historic Zoological Station of Naples, or Stazione Zoologica Anton Dohrn. True to the motto *Ostracods as Ecological and Palaeoecological Indicators*, some twenty ambitious ostracodologists come together and recognizing the need for more joint organization of ostracodology, found the Committee on Recent Ostracoda, which was later transformed into the International Research Group on Ostracoda.

Germany, Berlin, 2005: 42 years later, Prof. Dr. Michael Schudack, Prof. Dr. Steffen Mischke and Dr. Ulla Schudack invite the ostracodologists for ISO15 at the Freie Universitat, and 155 highly

motivated young and established researchers in the field of ostracodology come together to present their latest work in posters and talks and to start fruitful discussions, if not new collaborations.

Many research projects have been finished and countless papers on ostracods have been published in the time between Naples and Berlin. Among the publications, there were quite a few directing ostracodologists' attention (and not only theirs) to the unbounded scientific possibilities that applied ostracodology may open. Some of these are: (1) a permanent reflection of practical ostracodology on one hand, and (2) a clear invitation to use this outstanding group of microcrustacea as a tool in applied biology and palaeontology (e.g., DeDeckker and Forester, 1988; Martens and Horne 2000; Holmes and Chivas, 2002; Boomer et al., 2003).

In contrast, only a very few authors reviewed the achievements of ostracodologists in history. From the ISO proceedings, three reviews are noted which partially touched that topic. In 1976, Sohn reviewed the papers on ostracods of the previous decade, with reference to the geographical distribution of authors and to the age of ostracods being studied (Sohn, 1977). Six years later, Kesling gave an overview of ostracodology's state-of-the-art by means of new techniques and new concepts being used for research (Kesling, 1983). A more historical study was published by Neale (1988), summarizing the development of the most important research areas in ostracodology through the centuries. However, this overview was done in a descriptive way, mainly focusing on the achievements of single ostracod researchers who generated outstanding results in their fields. In contrast, the present study is based on numerical data, trying to show the paths that our research actually took between 1963 and 2005, the time covered by the ISO events. Several questions are addressed: Did ostracodology react to general trends and requirements in science and/or business? How fast did new techniques find their way into ostracodology? Which research methods are well represented in ostracodology, and which are not (yet)? On the occasion of the present proceedings volume (part 1) of ISO15, a retrospect on fifteen ISO proceedings may shed a light on the recent history of ostracod research and may even help to see where the future will take us.

Materials and methods

For the presented study, the following proceedings volumes were analyzed:

- ISO1, Naples 1963 (Puri, 1964), *Ostracods as Ecological and Paleocological Indicators*
- ISO2, Hull 1967 (Neale, 1969), *The Taxonomy, Morphology and Ecology of Recent Ostracoda*
- ISO3, Pau 1970 (Oertli, 1971), *Colloquium on the Paleocology of Ostracodes*
- ISO4, Newark 1972 (Swain, 1975), *Biology and Paleobiology of Ostracoda*
- ISO5, Hamburg 1974 (Hartmann, 1976), *Evolution of Post-Paleozoic Ostracoda*
- ISO6, Saalfelden 1976 (Loffler and Danielopol, 1977), *Aspects of Ecology and Zoogeography of Recent and Fossil Ostracoda*
- ISO7, Belgrade 1979 (Krstic, 1979), *Taxonomy, Biostratigraphy and Distribution of Ostracodes*
- ISO8, Houston 1982 (Maddocks, 1983), *Applications of Ostracoda*

- ISO9, Shizuoka 1985 (Hanai et al., 1988), *Evolutionary Biology of Ostracoda*
- ISO10, Aberystwyth 1988 (Whatley and Maybury, 1990), *Ostracoda and Global Events*
- ISO11, Warrnambool 1991 (McKenzie and Jones, 1993), *Ostracoda in the Earth and Life Science*
- ISO12, Prague 1994 (Riha, 1995), *Ostracoda and Biostratigraphy*
- ISO13, Chatham 1997 (Boomer and Lord, 1999; Holmes and Horne, 1999; Horne and Martens, 2000), *Nonmarine Ostracoda: Evolution and Environment; Marine Ostracoda and Global Change; Evolutionary Biology and Ecology of Ostracoda* and unpublished abstract volume
- ISO14, Shizuoka 2001 (abstract volume, unpublished), *Towards the new ostracodology in the 21st century*, (proceedings volumes by Ikeya et al., (2005a) and Ikeya et al., (2005b) were not evaluated)
- ISO15, Berlin 2005 (abstract volume, Kohring and Sames, 2005), *Ostracodology—linking bio-and geoscience*

ISO15 and ISO14 have been evaluated by their abstract volumes because of the much higher numbers of presented projects than is reflected by the subsequently published manuscripts in the proceedings. ISO13 has been evaluated by both the published proceedings volumes and the unpublished abstract volume of talks and posters. The proceedings volumes of ISO12 and ISO11 included poster abstracts, which were also included in the dataset. From the other ISO events, no abstract volumes were available, thus the data all rely on the published proceedings. However, these older volumes tended to contain the majority of presentations, as rejection of manuscripts only routinely started when proceedings were published as special issues of international journals.

Very few manuscripts or abstracts presented in the proceedings were not considered in the present study, such as non-ostracod papers, general reviews on ostracod research, or laudations. In total, 906 titles presented at ISO events were categorized.

The topics of all projects, presented either as abstracts or as complete publications, were evaluated and sorted with respect to their prevailing and their secondary theme or method. No differences were made between neontological and palaeontological research, e.g., ‘biodiversity’ and ‘palaeobiodiversity’ were not differentiated.

Within the eight main topics, namely taxonomy, morphology, genetics, reproduction, biodiversity, ecology, biogeography and biostratigraphy, several subcategories were formed according to the context in which (for example) a taxonomical or ecological study had been conducted. Thus, as an example, the collected data now allow a distinction between morphological studies carried out to gain new insights into phylogeny and evolution and those to relate ostracod body characters to ecological parameters of the habitat. Of course, it was not always evident how to classify the

projects, but, in general, every manuscript finally contained clear arguments to choose one of the eight main categories and a secondary category.

Results

All data obtained on the projects presented in the analyzed ISO proceedings and abstract books can be viewed in the Electronic supplementary material.

From these raw data, several diagrams were prepared to visualize (1) the differences in the composition of research projects presented at the different ISO events and (2) the development of ostracod research through time. Figure 1 shows an overview of the eight main categories of ostracod research presented on the International Symposia on Ostracoda, while Figs. 2–4 show some more details on the purposes of taxonomical, morphological, and ecological studies by breaking the data down into the different fields in which context these studies were executed. Finally, the development of research on ostracod taxonomy, morphology, (palaeo)biodiversity, (palaeo)ecology, (palaeo)biogeography and biostratigraphy and the relations between them are presented in Figs. 5 and 7.

Discussion

International Symposia on Ostracoda are interdisciplinary, international meetings of ostracod researchers, convened by invitation of different organizers in different countries. The basic idea is to provide a forum for presentations and discussions among all ostracod researchers. However, traveling to symposia costs money, and not all ostracod researchers can cover the costs for traveling around the world to meet their colleagues. Moreover, fellow ostracod researchers may not be able to leave their country for political reasons. As a result, the present analyses of the ISO outcomes may not fully represent ongoing ostracod research at that time. This weakness is of course a disadvantage for the present study—however, it is a much bigger hiatus in the meetings themselves, and the editors of the present proceedings look forward to the day when every ostracod researcher will be able to attend the coming international symposia on Ostracoda.

Each International Symposium on Ostracoda has had a main theme. Most of them are rather generally phrased, but some of these themes have of course influenced the composition of the presented work—a fact that can be noted for several, particularly the earlier symposia, such as ISO1 with its high ecological or ISO5 with its high morphological score. Nevertheless, in these symposia, many contributions were still not related to the given motto, as seen particularly in the poster abstracts of ISO12: while the manuscript contributions very much reflect the biostratigraphic bias of the given theme, the symposium abstracts included come from all possible fields. This reflects a selection of oral presentations conforming to the theme, followed by a publication in the proceedings volume. However, these pre-selections most likely did not influence the general trends of the development of contemporary ostracod research but are rather seen as a

mirror of the biodiversity studies would have less relevance (and respective research climate). Of course, vice versa, these fields do contribute to a reliable taxonomy).

Taxonomy is the base of all ostracod research. Without well-defined alpha-taxonomy, ecological, genetical, biostratigraphical, biogeographical and biodiversity studies would have less relevance (and of course, vice versa, these fields do contribute to a reliable taxonomy).

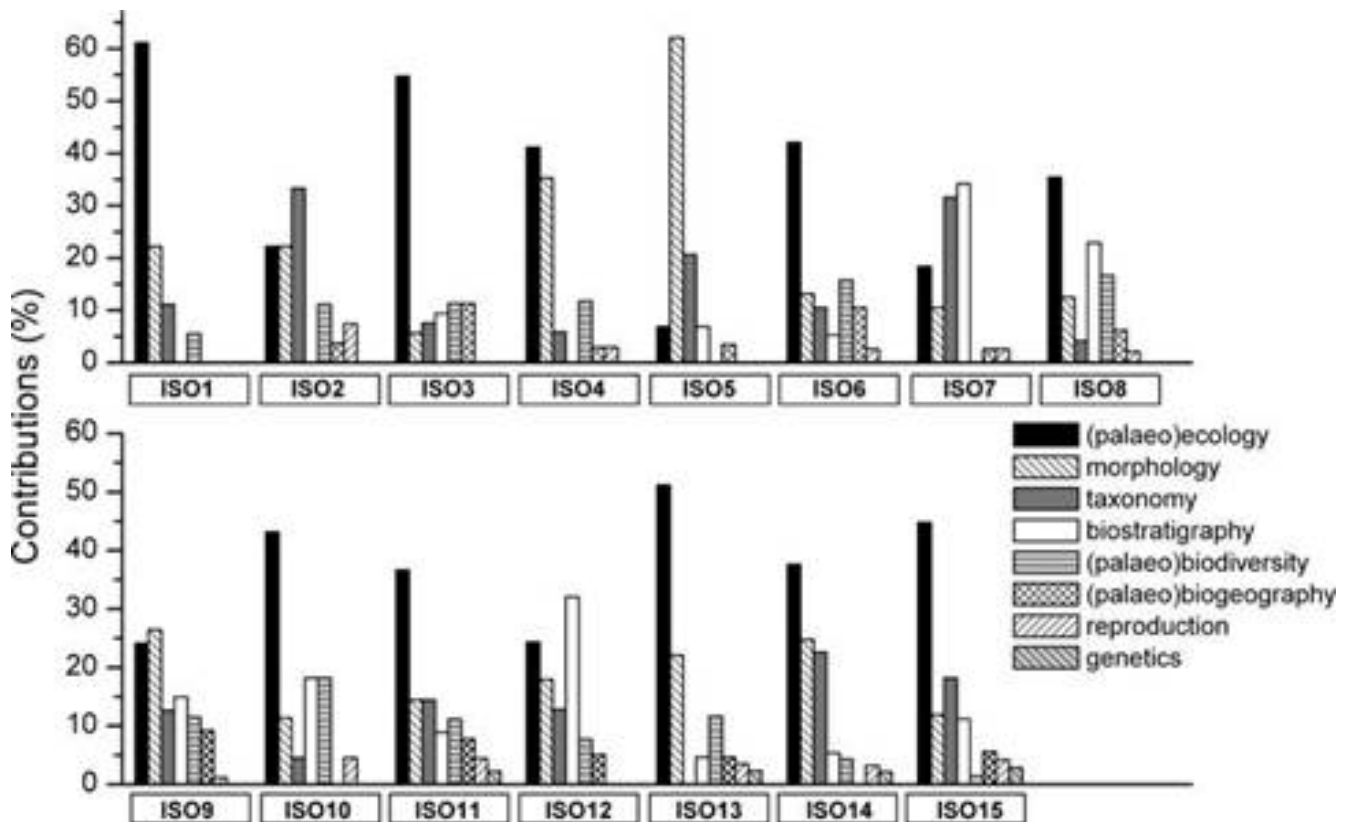


Fig. 1 Proportions of the eight main categories of ostracod research presented at the 15th International Symposia on Ostracods between 1963 and 2005

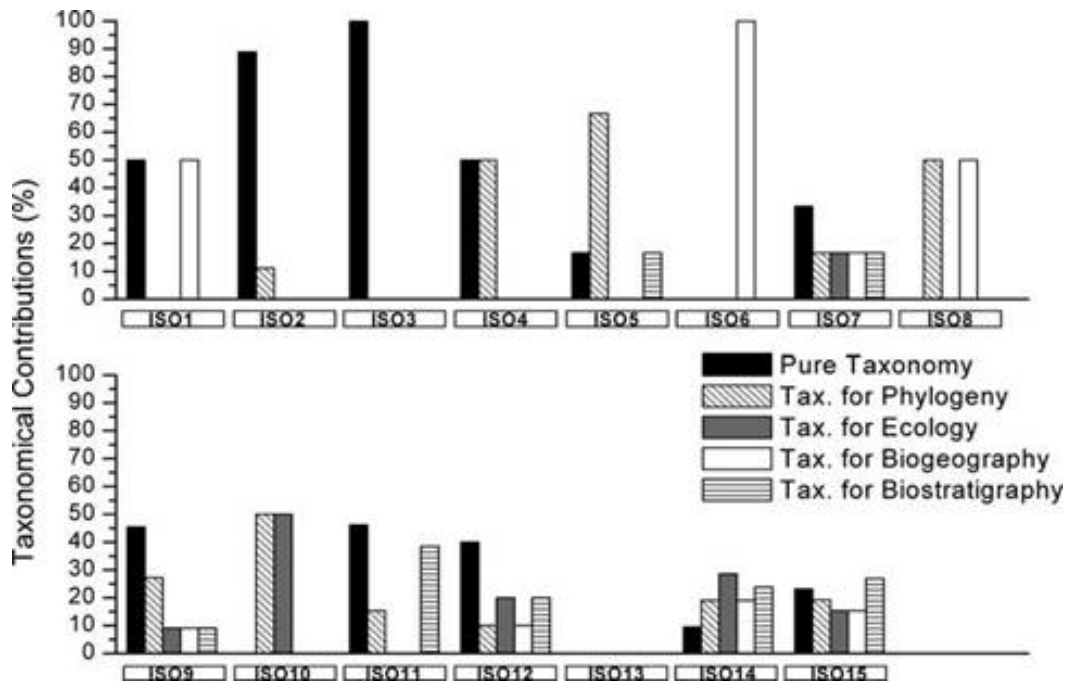


Fig. 2 Taxonomy at the different ISO events, broken down to five subcategories

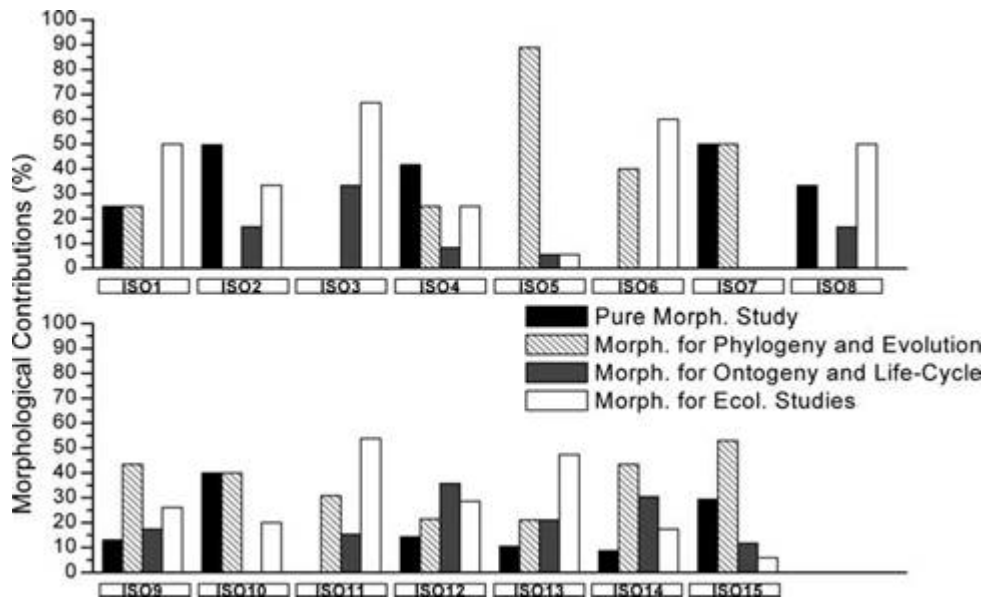


Fig. 3 Morphology at the different ISO events, broken down to four subcategories

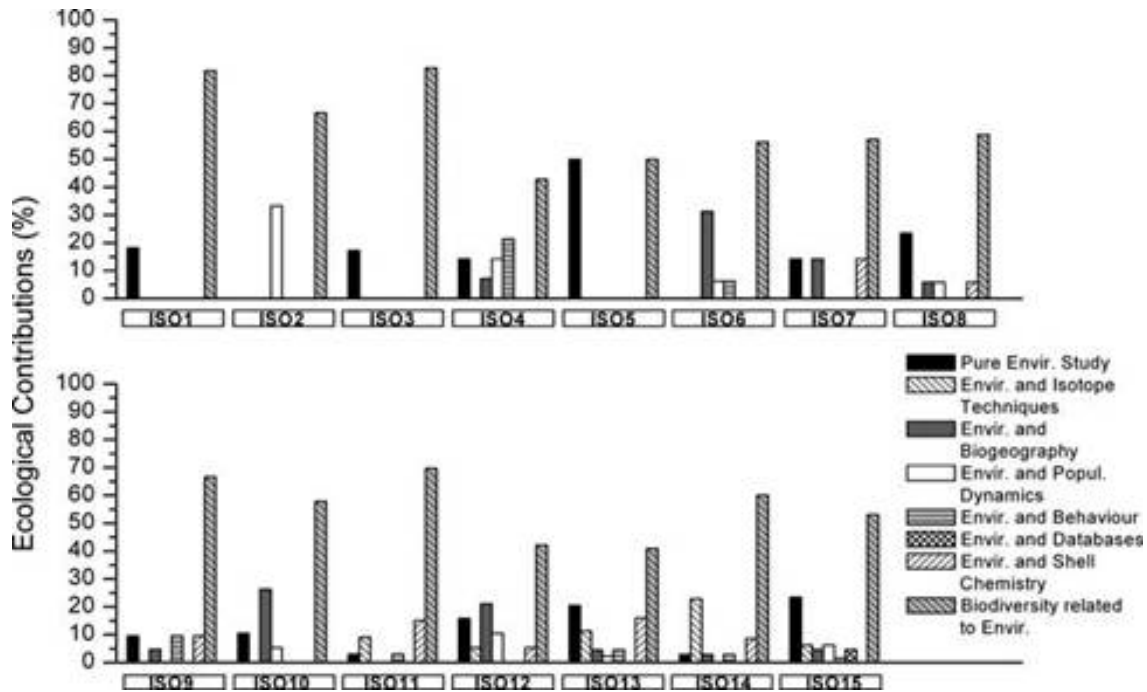


Fig. 4 Ecology at the different ISO events, broken down to eight subcategories

While ostracode taxonomy played the main role at ISO2 (33.3% of the presented topics; Figs. 1, 5), a slow decrease is to be noted (apart from a peak at taxonomy itself there is a hidden second trend: at ISO1 ISO7 which may be understood as an attempt to ISO3, most of the taxonomic studies were carried revive this area by including it in the main theme) out as pure, fundamental taxonomy, while as from until a stunning complete absence at ISO13 in 1997 ISO4 this “exclusivity” mostly vanishes in favor of (even in poster abstracts). When breaking down the studies that feature taxonomy in the context of data to details (Fig. 2), it becomes evident that within taxonomy itself there is a hidden second trend: at ISO1 to ISO3, most of the taxonomic studies were carried out as pure, fundamental taxonomy, while as from ISO4 this “exclusivity” mostly vanishes in favor of studies that feature taxonomy in the context of phylogeny, ecology, biogeography or biostratigraphy.

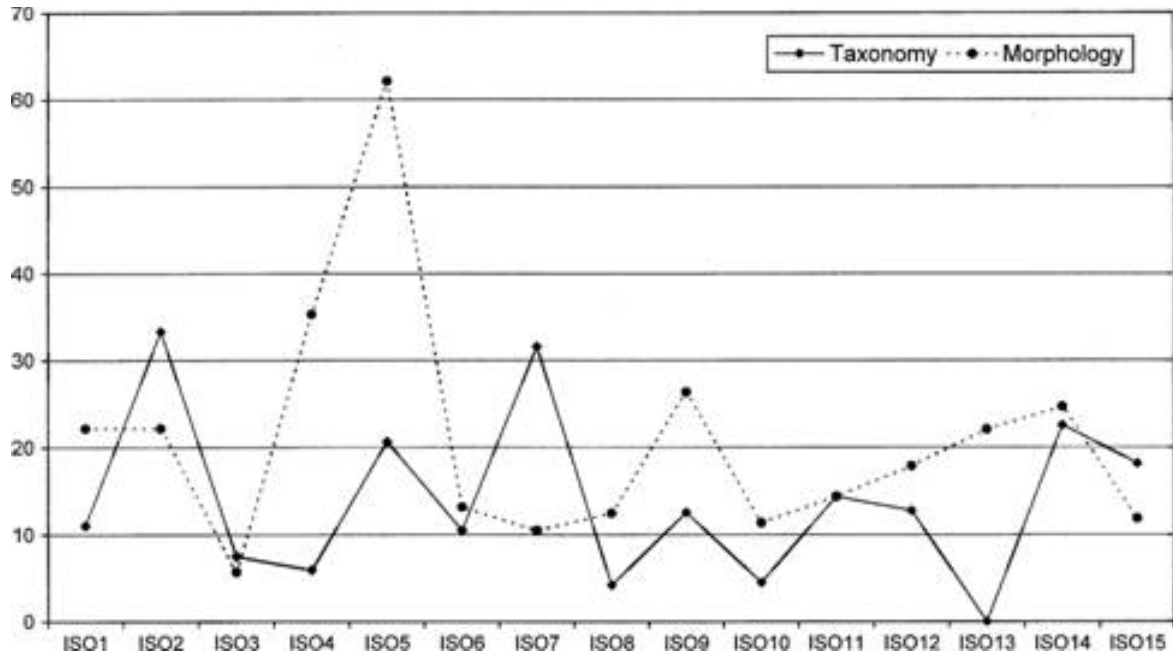


Fig. 5 Performances of taxonomy and morphology at the different ISO events. y-axis: proportions of taxonomical and morphological contributions in percent

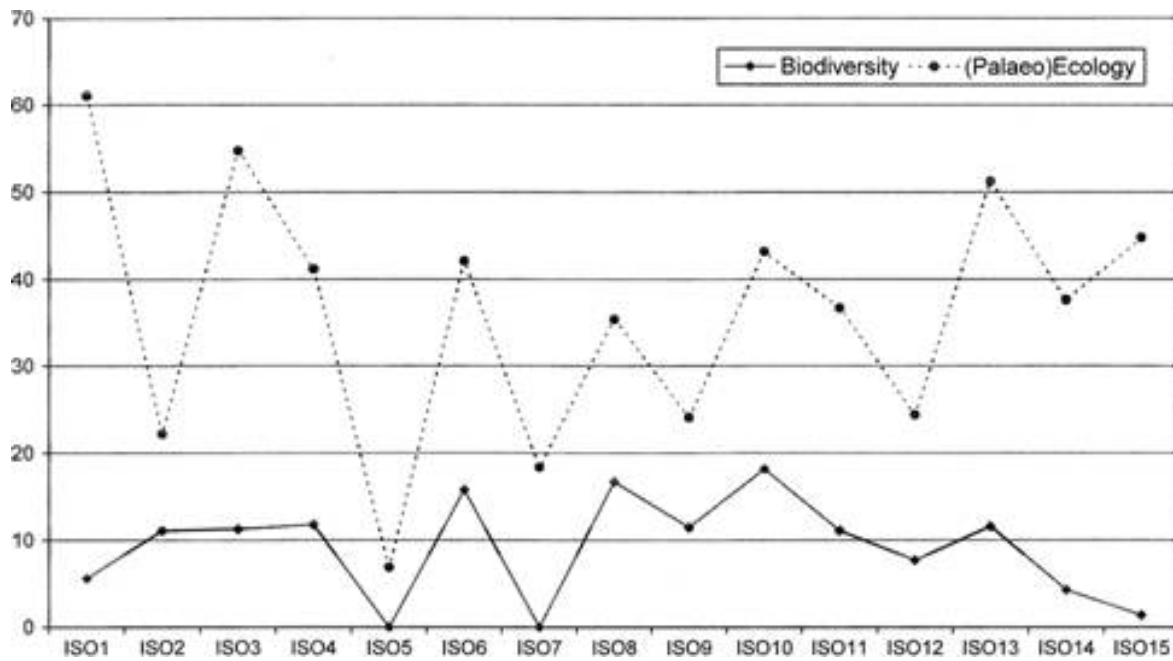


Fig. 6 Performances of biodiversity and (palaeo)ecology at the different ISO events. y-axis: proportions of biodiversity related and ecological contributions in percent

However, at ISO9, ISO11 and ISO12, the percentage of taxonomic contributions seems to be balanced around 10–15% (at ISO12 quite evenly divided among fundamental and applied studies), to be followed by the complete breakdown of taxonomy at ISO13 (Fig. 6). Possibly, this effect can be explained by a change in funding policies which (at least in the European research area) largely neglected the necessity of fundamental taxonomic research. Taxonomy went out of fashion, and had to be included in other, more applied and/or fashionable, project proposals. However, countless horrifying reports from conservation biologists about extinction trends, as well as worldwide taxonomic actions (such as the Global Taxonomy Initiative, and others) seem to have set a limit to the extinction of taxonomy. taxonomy. A budding new self-confidence of taxonomists is probably also reflected by the re-birth of ostracod taxonomy at ISO14 (22.6%) and ISO15 (18.2%), both presenting a good mixture of fundamental and applied taxonomical studies.

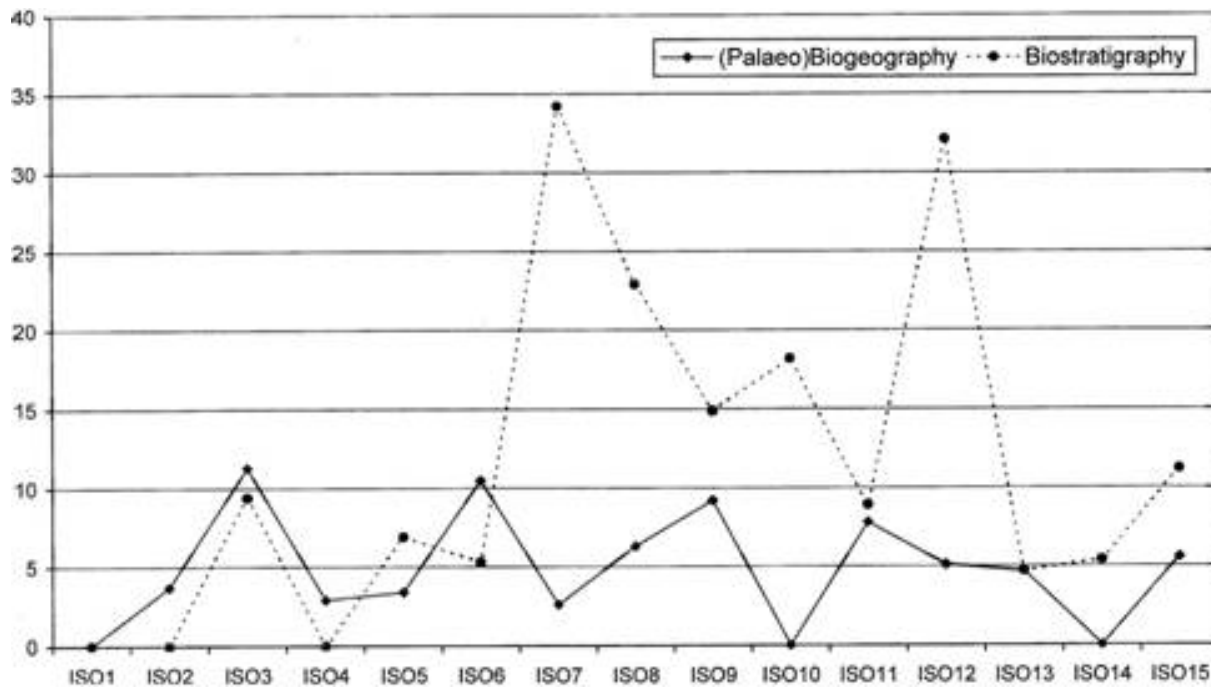


Fig. 7 Performances of (palaeo)biogeography and biostratigraphy at the different ISO events. y-axis: proportions of biogeographical and biostratigraphical contributions in percent

Ostracod taxonomy is traditionally built on morphology. Since hypotheses regarding evolution and phylogeny are mainly based on ostracod taxonomy, morphology also serves in these domains. Additionally, morphological knowledge of juvenile ostracods serves ontogenetic investigations as well as life-cycle-studies. Apart from a high peak at ISO5 (owing to its theme, morphology for phylogeny and evolution was highly pronounced), morphological investigations represent the more or less continuous background technique at all ISO events (Figs. 1, 5). Since environmental factors are often reflected by morphological traits, morphology is to a high degree an integral part of ecological studies, as shown in Fig. 3. Increasing interest in soft-part preservation in fossil ostracods has added a new aspect to the understanding of the group as a whole, and new technologies such as non-invasive methods might even give a major new impulse to this traditional research area in the near future. There is still a lot to be expected, the future is bright!

Ecology (including palaeoecology) is one of the major fields of investigation within ostracodology (Figs. 1, 6), and apart from a clear ‘depression’ at ISO5, it was always one of the main topics in ostracod symposia, if not the largest part of all ISO contributions (which was the case at 10 out of 15 ISO events). Additionally, at ISO1, ISO6 and ISO8, a high proportion of presented taxonomic studies were aimed at an improved understanding of ecological data (Fig. 2). Within the field of (palaeo)ecology, most studies deal with the relationship between (palaeo)diversity and various environmental factors, followed by pure environmental studies and those combining (palaeo)ecology and (palaeo)biogeography (Fig. 4). At ISO7 (1979), shell chemistry was introduced as an innovative technique for the use of ostracod shells as environmental proxies (peak at ISO13), followed by isotope analyses from ISO11 (1991, peak at ISO14). At ISO15, no project on pure shell chemistry was presented—it seems as if isotope analysis has currently succeeded as the most relevant technique if deductions from ostracod shell compositions on former environmental conditions are required. Behavioral studies related to environmental factors play only a minor role.

The outstanding performance of ecological research within ostracodology is not surprising: along with wealth and high living standards in the industrial countries, the last five decades have brought severe man-made impacts on our environments. To understand the ongoing global and regional changes, ecological survey techniques had to be improved and data were increasingly processed by more sophisticated computing technologies. Ostracodologists made and will make use of these developments to learn more about ostracod ecology, and—vice versa—will apply this knowledge to contribute to the understanding of both past and future trends.

The study of ostracod biodiversity is rarely a stand-alone discipline. New insights into faunal assemblages of a given time and space are usually embedded within ecological, phylogenetical, biogeographical or biostratigraphical investigations. In particular the two fields ‘ecology’ and ‘biostratigraphy’ are often inextricably interwoven with faunistic analyses. Therefore, if ISO projects featured a biodiversity study within an ecological context, or a biodiversity study within a biostratigraphic context, respectively, these were categorized within the groups ‘ecology’ and ‘biostratigraphy.’

The remaining analyzed biodiversity studies (Figs 1, 6 and data sheets) tell us two major things:

biodiversity studies executed to gain new insights into ostracod evolution and phylogeny are relatively rare; and, in contrast, a much larger proportion of biodiversity studies combine faunal analyses with biogeographical issues, particularly at ISO10, which was dedicated to Global Events. However, from ISO10 onwards, the proportion of biodiversity–biogeography studies gradually decreased from 18.2 to 0.7% at ISO15. This development is both surprising and alarming, particularly if viewed together with the main theme ‘biogeography,’ which also shows a more or less continuous decrease after ISO11 (Figs. 1, 7) with a complete absence at ISO14. Is it possible that such an important facet of ostracod phylogeny and evolution is no longer explored?

Biostratigraphy is certainly the oldest applied discipline in ostracodology. Ever since the first description of a fossil ostracod in 1813 (*Cypris faba* Desmarest), ostracod biostratigraphy has been a proven method for dating sediments and strata, not least in the economically important field of hydrocarbon exploration. Biostratigraphic contributions were relatively pronounced in the ISO7 proceedings from 1979 (34.2%), reflecting increased exploration as a consequence of the global “energy crisis”, then gradually decreased down to 8.9% at ISO10 (Figs. 1, 7). At the occasion of ISO12, organizers may have wanted to pinpoint this negative trend by choosing the theme ‘Ostracoda and biostratigraphy’, but the following two symposia again featured only around 5% biostratigraphy within their proceedings.

However, since the oil industry has largely replaced biostratigraphy by other exploration techniques in recent decades (in order to decrease personnel costs), it now becomes obvious that biostratigraphy is still the most powerful tool for both immediate strata dating and palaeoenvironmental assessment. The new demand for well-trained micropalaeontologists meanwhile led to the establishment of popular international open short courses in applied micropalaeontology, e.g., at the University of Bonn. This renewed interest in biostratigraphy certainly follows new requirements in the oil exploration industry. The relatively high performance of this working field at ISO15 (11.2%) is indicative of this trend.

Of the eight main categories of ostracod research, reproduction and genetics represent the smallest groups. Molecular genetic research first appeared at ISO11 in 1991 (Fig. 1) with two fundamental studies—surprisingly late when compared to the general development of this research field in the rest of biology. In the present proceedings volume, genetic contributions remained below 3% of the total number (four papers or 2.8% at ISO15). There may be several reasons for this. Firstly, molecular biological studies on ostracods are restricted to only a few research groups. Ostracods may not be the most ideal model organisms for such studies, because many species remain difficult to culture in the lab, and their small size (amongst other reasons) makes DNA extraction less than equivocal. Secondly, molecular biologists working with ostracods often do not consider themselves ostracodologists per se, and attending ostracod conferences might not be their priority. Finally, molecular studies on any animal or plant groups are often seen as being more competitive than more classical disciplines, and therefore such papers might not be offered for publication in the symposium proceedings.

The general under-representation of reproduction biology within ostracod research (Fig. 1) is due to varied reasons. Major studies on ostracod reproduction, namely on the morphological background of reproduction, were carried out before the first ISO, mainly in the first decades of the 20th century, by technically brilliant microscopists like Zenker, Muller, Bauer, Lowndes (e.g.,

Zenker, 1854; Muller, 1889; Lowndes, 1935; Bauer, 1940). With the rise of SEM and TEM techniques in the 1960s, several potentially ground-breaking studies on ostracod giant spermatozoa were published (e.g., Gupta, 1968; Reger and Florendo, 1969; Reger, 1970; Zissler, 1966, 1970), but unfortunately, they were (1) not published within an ISO proceedings volume and (2) obviously not ground-breaking enough: apart from Wingstrand's monograph on ostracod spermatozoa (1988), they had no 'pollinating' effect on ostracod research. Additionally, it has to be mentioned that these studies were not carried out by 'genuine' ostracodologists entering the field of spermatology, but by spermatologists, who were only temporarily interested in ostracod spermatozoa (e.g., Zissler, Reger).

Within ISO proceedings, most studies on ostracod reproduction were related to morphological aspects, followed by investigations of the effects of reproduction on population dynamics. Karyological, ecological, behavioral, and biogeographical aspects of ostracod reproduction have so far played a very minor role.

However, ostracods reproduce either sexually or asexually and asexuality (parthenogenesis) is limited to certain populations or even species, but never cyclic. Furthermore, the occurrence of parthenogenesis in certain species is correlated with geographical/ climatological aspects. These biological peculiarities indeed bear a high potential for research in, for example, ostracod evolutionary ecology, palaeo-biogeography, and genetics. The ongoing SexAsex EU Marie-Curie Research and Training Network on the geographic parthenogen *Eucypris virens* will certainly give this field a new impulse, so that a significant output is to be expected. Not least, the continuous improvement of affordable camera systems will provide increasing possibilities, in particular to studies on ostracod reproductive behavior. Ostracod reproduction appears to be a research field in the starting blocks.

Conclusions

Within the spectrum of ISO contributions, *taxonomy* generally played a minor role and was mostly presented in a combination with other research fields, i.e., as applied taxonomy. From the 1970s, the percentage of taxonomic contributions decreased until a complete breakdown in 1998. Since then, a re-birth can be noted, perhaps as a sign of a budding new self-confidence in this area.

Morphology may be termed the permanent background research at high level within ostracodology, implemented in literally every working field. Along with a growing interest in soft-part preservation in fossil ostracods, it will be more important to have a profound knowledge of soft-part morphologies of all ostracod groups.

Ecology is one of the major fields of investigation within ostracodology, and new techniques seem to be introduced quite easily and quickly. Shell chemistry studies had their peak in 1998, but were then gradually replaced by, or combined with, isotope analyses. Behavioral studies played a minor role, whereas most ecological studies made use of biodiversity analyses to use assemblages as environmental proxies, and often include biogeographical implications. Apart from this application, *biodiversity* analyses mainly functioned as a tool for biostratigraphical and biogeographical projects—only very rarely were phylogenetic studies based on biodiversity analyses. *Biogeography* as such has not performed well recently. In spite of useful new tools like GPS and affordable database software, not the slightest growth of this field is to be noted within

the contributions of the last ISO events. In order to contribute to developments in general (palaeo)biogeographical research, work on ostracod biogeography urgently needs to be revived. In contrast, *biostratigraphy* seems to have overcome its low mark, which was clearly at ISO13. Ever since, renewed interest in this area is to be noticed. *Molecular genetic* research found its way into ostracodology rather late and after its introduction at ISO11 in 1991 no significant flourishing can be seen in the present analysis. Several possible reasons can be cited for this. Finally, research on ostracod reproduction has had its special chronology. The main morphological data on reproductive organs and cells were collected by researchers before the first ISO in 1963. Among the ISO contributions, the percentage of studies on *reproduction* were generally low, featuring morphological peculiarities, a few chromosome investigations, sex-ratio studies and only one manuscript (in total) in either an ecological or a biogeographical context. All spermatology research of the 1970s was performed by non-ostracodologists outside any ISO event. Since ostracod (a)sexuality is extraordinary for several reasons and even challenges evolutionary hypotheses by featuring putative ancient asexuals, this research area is expected to continue to flourish in the future.

Although the present study suffers from a number of shortcomings (cited above), we consider this retrospective of some value, because it might help us to decide which directions to take in our coming research projects in the 21st century.

Gemeine Kopfe lesen in der Geschichte die Vergangenheit, kluge die Zukunft—Simple minds read the past in history, clever minds read the future.

Acknowledgments

We wish to thank all people who organized previous International Symposia on Ostracods, and who put a lot of work into the Symposia Proceedings. We also want to thank all authors who published in previous ISO Proceedings, thus providing an overview of the current state of the art of ostracodology.

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ANNOUNCEMENTS

Giorgio Benassi

(Antonio Moroni is now retired) announced the publication of a book on Italian freshwater ostracods:

Antonio Moroni and Ken McKenzie, *Ostracoda of the Italian Ricefield Ecosystems*, Accademia Nazionale delle Scienze, Scritte e Documenti, 38, Roma, 2007, 222 p.

Abstract:

Fifty species of Ostracoda are recorded from the Italian ricefield ecosystem in a major revision which covers collections made from 1960-1986. Several original and subsequent misidentifications have been corrected. More or less complete descriptions for every genus, based on dissection slides in the Istituto di Ecologia (University of Parma) collections are provided; in several cases these are more detailed than any hitherto published. The remarkable fact that the Italian continental Ostracoda fauna includes many "foreign guest" ("ospiti esteri") species which only occur in the ricefields ecosystem is stressed and its implications briefly discussed.

Don Van Nieuwenhuise

As treasurer of NAMS (North American Micropaleontology Section, SEPM), I am always happy to receive new applications from ostracodologists. Please check out the NAMS web site at <http://sepm.org/nams/index.htm> and send me your applications!

BIOGRAPHY

Ken McKenzie

[from the book "*Ostracoda of the Italian Ricefield Ecosystems*"] Biogeography by **Ireneo Ferrari**.

Ken McKenzie's life makes a fascinating story, abounding in travels, places, encounters, interests. Across continents: from India to Australia, from the Philippines to South Africa, from South America to the United States and Europe. And through work and study activities carried out in highly dissimilar professional and scientific contexts: in the oil industry, in international institutions promoting research, in prestigious natural history museums, in universities. McKenzie shaped his unique profile as citizen of the world, and his story as a man of science by nurturing himself on the stimuli and humours of the cultures of different worlds and distilling, re-elaborating, and revitalizing the contents of knowledge that usually remains codified within the confines of closed and well-protected disciplines.

His basic formation was in the field of geology: and his early professional activity, conducted in applied geology during the 'fifties, concerned the use of highly efficient paleoenvironment bioindicators for purposing of oil prospecting. Of particular importance as indicators are the Ostracods, a group of microcrustaceans that have populated the biosphere for more than five hundred million years and are now represented by thousands of species, both planktonic and benthic, of all aquatic environments, from temporary fresh-water pools to salt-water lagoons, from coastal marine areas to ocean abysses.

McKenzie was quite an expert on these animals. He analyzed series of samples collected in coastal regions of every continent.

OBITUARY

By **Giuseppe Aiello**

Maria Luisa Colalongo

(Pescara, 28 novembre 1937 – Bologna, 16 febbraio 2006)

Maria Luisa Colalongo spent forty years in paleontological research, publishing more than one hundred papers dealing with biostratigraphy, paleoecology, and taxonomy. She began her activities in the sixties with studies on the carbonate platform of the Southern Apennines, especially Mesozoic benthic foraminifers. Later she extended her field of study to other groups, planktonic foraminifera, and ostracods of the Neogene, Quaternary and Recent.

The activity of Professor Colalongo included the description of about fifty new species of ostracods. The most important contribution on ostracod taxonomy is a wide and detailed study (Colalongo and Pasini, 1980) of the Plio-Pleistocene bathyal ostracods of the Vrica Section. In this paper, four new genera have been described (*Ruggieriella*, *Typhloeocytherura*, *Tuberculoocythere*, *Paramacrocypris*); the former two are today commonly used by ostracodologists.

From the nineties on, she participated in paleoecological research, studying both ostracods and benthic foraminifers, of the Pleistocene-Holocene sediments of the Po Valley.

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