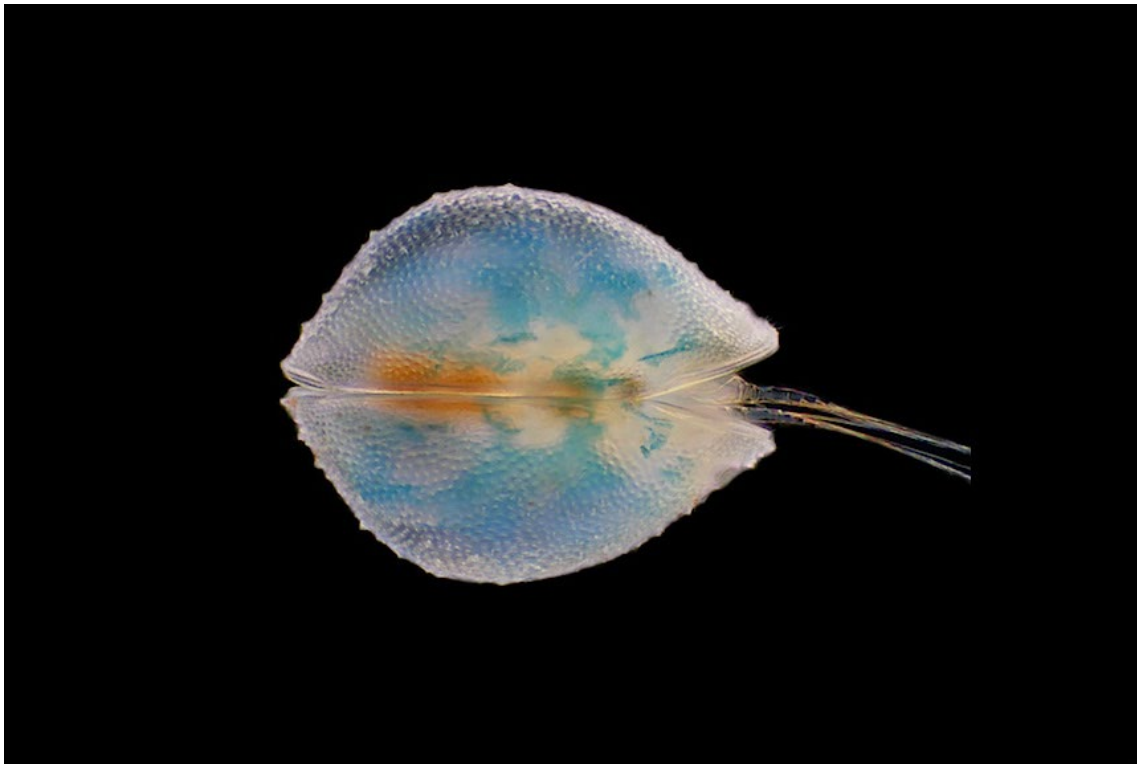


CYPRIS

2002-2003

Numbers 21-22

Editor: Elisabeth Brouwers



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

RESEARCH ACTIVITIES

ARGENTINA

Alicia Echevarria

I am working on the Tertiary marine ostracods of Peninsula de Valdes and Maastrichtian brackish ostracods of north Patagonia.

Maria Jose Salas

I continue to work on Ordovician ostracod faunas from Argentina, focusing on taxonomy, paleoecology, and paleobiogeography. I am dealing with ostracods from Tremadoc successions from a northwestern basin of Argentina, in cooperation with **Jean Vannier**.

AUSTRALIA

Correspondent: Stephen Eagar

Patrick De Deckker

Patrick continues his investigations into Quaternary marine environments recorded in deep-sea cores in the Australian region. Collaboration with colleagues on those cores has aimed at obtaining multidisciplinary records of environmental change. Work with **Sander van der Kaars** (Monash University) dealt with pollen; **Lena Maeda** (Japanese Geological Survey) with trace metals in bulk sediments (paper submitted to *Palaeo-3*); **Franz Gingele** on clay analyses from the deep-sea canyons offshore of the Murray Mouth; and **Eva Calvo, Carles Pelejero** and **Tim Barrows** (all at ANU) on alkenone temperature signals at the sea surface (paper near completion). A manuscript on modern acantharians and their role in affecting the chemistry of waters near the sea-surface is published. These unicellular microorganisms, which resemble radiolarians, secrete a strontium sulphate mineral—which are never found as fossils as sea water is undersaturated with respect to that mineral—play a significant role in recycling Sr and Ba in sea water near the sea surface, and surprisingly are often more common than planktic foraminifers.

One exciting event was the oceanic cruise on the French vessel *Marion Dufresne* in February-March 2003, when Patrick and many ANU people, including twelve students, went to sea to study aspects of deep-sea canyons offshore Kangaroo Island. Micropaleontologists from France (**Sabine Schmidt**; sediment accumulation rates); Germany (**Thomas Jellinek**; ostracods) and USA (**A. Rathburn**; benthic foraminifers) took part in the cruise. Several papers are in preparation on the findings of the cruise, including some on ostracods and foraminifers collected at the sea surface down to great depths. Long cores were retrieved and are being studied by **Franz Gingele** (clays), myself (stable isotopes), **Michelle Spooner** (PhD student, ANU; forams), **Daniel Wilkins** (PhD

student; dating techniques, some using forams), **Sharron Glasgow** (PhD student UWA; pollen), and **Eva Calvo and Carles Pelejero** (RSES, ANU; alkenones).

Patrick has completed old work on a core from the playa Lake Frome in South Australia, using the chemistry of ostracod shells for determining past hydrologic changes from the Flinders Ranges region spanning the last 50,000 years. The paper is being revised and should be resubmitted soon.

Chris Gouramanis

Chris is approaching the halfway mark of a PhD project under the supervision of **Patrick De Deckker**. This project is funded by an ARC grant. The primary focus of the project is to determine the climate of southern Australia from approximately 10,000 years ago to the present by using the chemistry of ostracod valves taken from a series of lake cores. He has published part of his Honours thesis with **John Webb** and **Anne Warren** from La Trobe University as co-authors in the *Australian Journal of Earth Science*.

Peter J. Jones

Peter redescribed the type species of the monotypic genus *Ankumia* (*A. bosqueti* van Veen 1932; Late Cretaceous (Maastrichtian) from The Netherlands) and interpreted its multilamellar carapace as a pathological result of interrupted ecdysis (moult retention) within the Platycopina (possibly *Platella* Coryell and Fields 1937). Because the genus *Ankumia* was based on a pathological feature, it is regarded as a *nomen dubium*. It is unrelated to the puzzling crustacean group Eridostraca, in which the multilamellar shell appears to be the natural growth pattern of the animal. The results have been published in the *Journal of Micropalaeontology*. His study of the latest Devonian and Early Carboniferous paraparchitid ostracods from the Bonaparte Basin (their taxonomy, biostratigraphic and palaeozoogeographic links) has been published in *Association of Australasian Palaeontologists Memoir 29*. An obituary on the achievements during the life of the late Dr. Kenneth G. McKenzie (1928-2003), ostracodologist *extraordinaire*, was published in *The Australian Geologist* (March 2004) and later in *Nomen nudum*.

Peter continues micropalaeontological studies of the subsurface Upper Devonian and Lower Carboniferous rocks of the Bonaparte Basin, northwestern Australia, and provided biostratigraphic support in an investigation of the Lower Carboniferous petroleum source rocks, which was published as a Special Publication of the Northern Territory Geological Survey. He is participating in a project coordinated by **Manfred Menning** (GeoForschungs Zentrum Potsdam) in the preparation of a high resolution correlation chart for the Devonian, Carboniferous, and Permian systems. Progress reports have been presented at the 15th International Congress on Carboniferous and Permian Stratigraphy, Utrecht (2003) and the 32nd IGC (Florence, 2004).

Ivana Karanovic

In the past three years, I held an ABRS (Australian Biological Resources Study) grant for the revision of the subfamily Candoninae. This project was completed in August of this year, and from September this year I have been working on Pilbara (Western Australia) ostracods collected during a large survey of this region.

John Neil

Current research includes:

- Taxonomy and palaeoecology of ostracode assemblages from the Palaeogene and Neogene of southeast Australia, especially the Middle Miocene.
- Microstructure, especially micro-reticulation, of the ostracode shell.

Jessica Reeves

Jessica completed her PhD thesis at the University of Wollongong, under the supervision of **Allan Chivas**. Her work involved using ostracod assemblage data, morphological variation, and stable isotope analysis of the ostracod shell carbonate to determine the palaeoenvironmental change of the Gulf of Carpentaria through the last glacial cycle. Through this period, the region experienced open shallow marine, lagoonal and lacustrine conditions and was even completely subaerial for some time. The results of this work are expected to be published late 2004.

Jessica has undertaken a Post-doctoral appointment at ANU, looking at groundwater ostracods from the Pilbara. The project is in collaboration with **Patrick De Deckker** (ANU), **Stuart Halse** (Conservation and Land Management, WA), and **Ivana Karanovic** (WA Museum). To date, at least twenty new ostracod species have been identified from this area, with at least twenty still to be described. The aim of the project is to obtain a greater understanding of the distribution and ecology of these stygofauna, with particular attention to the host water chemistry.

Anna Syme

I have completed two years of a PhD investigating systematics of the myodocopid Family *Cylindroleberididae*. During 2004 I spent time in the U.S., where I met with **Dr. Kornicker** at the Smithsonian Institution to discuss *cylindroleberid* morphology. I spent some time at **Todd Oakley's** lab, where I obtained molecular data for *cylindroleberid* specimens. I will combine this with morphological data to hypothesize a phylogeny for the family.

Mark Warne

Mark continues research focused on Cenozoic ostracod micropalaeontology and geological evolution of the Bass Strait seaway/petroleum province. Recent research has included work on Neogene palaeoclimates as well as the taxonomy and ecology of living Australasian Ostracoda. He is undertaking research on Australian Palaeozoic and Mesozoic ostracod classification and palaeoecology. Mark Warne attended the 14th ISO in Shizuoka.

News on students at Deakin University, Australia, undertaking ostracod related projects is as follows:

- **Michele Guzel** continues her PhD project on the Cretaceous ostracod faunas of the Carnarvon Basin, Western Australia.
- **Bryce Webb** completed an honors thesis on the Quaternary Ostracoda of the Yarra Delta, Victoria, Australia, in 2002.

- **Brent Soutar** completed an honors thesis in part on the ostracod fauna of the Pliocene Whalers Bluff Formation, Otway Basin, Australia in 2004.
- **Jayden Kirkpatrick** is currently undertaking an honors project on the ostracod faunas of the Bookpurnong Formation, Murray Basin, Australia.
- **Matt White** is undertaking studies on a Pleistocene non-marine fauna from the Nelson Bay Formation, Victoria, Australia.

AUSTRIA

Wolfgang Mette

During the last few years, I was concerned with biostratigraphical and micropalaeontological studies in the Jurassic of southwestern Madagascar (Morondava Basin). I am working on ostracods from the Upper Permian and Triassic of Iran and Europe. In the near future, I would like to start a project on the Jurassic of northeastern Iran.

BELGIUM

Correspondent: Karel Wouters

Jean-Georges Casier

He is working on Devonian ostracods. During 2002, 2003, and 2004 he studied late Devonian and early Carboniferous ostracods from several sections in Belgium and France, and in relation with the Hangenberg Event. He is working on Frasnian ostracods from Nevada (USA) in relation with the Alamo Event; on Eifelian and Givetian ostracods from the Namur Basin in Belgium; and on a study of Eifelian to Famennian ostracods from sections in Morocco.

Koen Martens

Research topics in 2001-2004:

- Continuing studies on taxonomy, phylogeny, and ecology of nonmarine ostracods from the world, with a focus on Africa, Mongolia, and South America.
- Ostracod diversity and ostracod speciation in ancient lakes (Baikal, Tanganyika, Malawi, Titicaca).
- Evolutionary ecology and genetics of darwinulid ostracods (with **Isa Schon, Roger Butlin, Karine Van Doninck**).
- Revision of putative ancient asexual Darwinuloidea with **G. Rossetti** (Recent), Mesozoic (with **David Horne**), and Palaeozoic (with **F. Lethiers**).

Coordinator of an 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. This project runs for four years (2004-2008) and employs six PhDs and four postdocs in nine European laboratories. The topic covers molecular biology, genomics, ecology, phylogeny and phylogeography, modeling, etc., and deals with geographic parthenogenesis, relevance of parasitic load, functionality of rare males, and so on.

Non-ostracod related activities include projects on the science policy of biodiversity; development of new phylogenetic tools; and the use of biodiversity in small water bodies to assess (agricultural) landscape integrity.

I have become editor-in-chief of *Hydrobiologia* and am editor of two book series.

Marc Peeters

He is studying recent marine ostracods (as well as foraminifers) recovered from sediments from the Belgian part of the North Sea.

Isa Schon

She is mainly interested in the paradox of sex using nonmarine ostracods as model group and in the evolution and speciation of ostracods from ancient lakes.

Karine Van Doninck

Research topics during 2002:

- Continue the ecological studies on darwinulid ostracods.
- Finishing the manuscript of the salinity and temperature tolerance of *Darwinula stevensoni*, *Heterocypris incongruens*, and *Vestalenula molopoensis*. Publishing those results in *Oecologia*.
- Statistical analyses of the salinity and temperature tolerance of *Penthesilenula brasiliensis* and *Penthesilenula aotearoa* and preparing the manuscript.
- Monthly sampling of *Darwinula stevensoni* in the Mellaerts pond (Belgium) for the life history experiment (from April 2001 to April 2002) and measuring all different stages of the populations and statistical analyses.
- Genetics on darwinulid ostracods.
- Apply quantitative PCR assay to study UN-C DNA damage in *Darwinula stevensoni* and analyze the data.
- Study the genetic variation within and between the sampled *Darwinula stevensoni* populations using the RAPD technique (Random Amplified Polymorphic DNA) and analyzing the phylogenetic data.

Research topics during 2003:

- Finishing the writing of PhD thesis entitled “*Evolutionary ecology and genetics of the asexual darwinulid ostracods*”. Doctorate degree obtained on 02-28-2003.
- Ecologic studies on darwinulid ostracods.

- Publishing the new results of the salinity and temperature tolerance experiments of several darwinulid species in *Freshwater Biology*.
- Publishing the life history experiment on *Darwinula stevensoni* from the Mellaerts Pond (Belgium) in *Hydrobiologia*.
- Genetics on darwinulid ostracods.
- Finishing the manuscript about the genetic variation in *Darwinula stevensoni*.

Research topics during 2004:

- Finishing the manuscript about the genetic variation in *Darwinula stevensoni*.
- Studying the bdelloid rotifers in the laboratory of **Prof. M. Meselson** at Harvard University—postdoctoral BAEF and FBR Fellowship—no ostracodes anymore for now.

Karel Wouters

Research topics in 2002-2004:

- Marine and brackish Cypridacea, mostly from the Indian and Pacific Oceans.
- The zoogeography of the genus *Microceratina* (together with **T. Namiotko, D. Danielopol, and W. Humphreys**).
- Distribution of the brackish water ostracod *Cyprideis torosa*.
- Taxonomy and zoogeography of intertidal Ostracoda from the Cape Verde Islands.
- Ypresian Ostracoda from the Ampe outcrop in north Belgium (together with **T. Moorkens and H. Hooyberghs**).
- Late Miocene Ostracoda from the Deurne Sand Member in Antwerp (with **M. Bosselaers, and others**).
- Marine Miocene Ostracoda in the Maaseik well (east Belgium).
- Review of the genus *Neocytheromorpha*.
- Ostracods from the Loon Formation, Pleistocene, north France (with **J. Somme and others**).

Supervision of Licentiate thesis (2003-2004) of **Thomas Vandenberghe** (University of Leuven) on taxonomy and palaeoecology of ostracods from Eocene (Lutetian) deposits in a sand quarry in Berg-Nederokkerzeel (Belgium).

BRAZIL

Simone Nunes Brandao

She completed a master's in science in Zoology in Museu Nacional-Rio De Janeiro with the alpha-taxonomy of Macrocyprididae. She is a PhD student in Germany under the advisorship of **Dietmar Keyser**, and her thesis will be on the Recent ostracods (using soft parts, when available) of the deep sea of the Atlantic sector of Antarctica. She will identify and describe as many taxa as possible possible, not only the Macrocyprididae. She intends to investigate the systematic relationship from Macrocyprididae to other taxa, and population genetics using DNA

(together with **Isaa Schoen**, who works in Belgium with **Koen Martens**). She is interested in the biodiversity and biogeography of Antarctic ostracods (not just Macrocyprididae).

Dermeval A. do Carmo

He is the head of the Laboratory of Micropaleontology at the Institute of Geosciences, Universidade de Brasilia. In 2003 he was the chairman of the XVIII Brazilian Paleontological Congress held in Brasilia.

Four graduate students are being supervised:

- **Claudio Magalhaes de Almeida**, Permian ostracods from Parana Basin.
- **Fatima Praxedes Rebelo Leite**, Miocene paleobiogeography of the western Amazonia.
- **Joao V. Queiroz Neto**, Early Cretaceous ostracods from Alagoas Basin.
- **Silvia Regina Gobbo-Rodrigues**, Early Cretaceous ostracods from the Santana Basin.

Two undergraduate students are working with ostracods:

- **Cibele C. Jiucosky**, Late Aptian/early Albian ostracods from Sergipe Basin.
- **Fernanco Santos Diener**, Miocene ostracods from Solimoes Basin.

Joao Carlos Coimbra

During the last few years, I have been working on five main projects:

- Deep-sea ostracods from Pleistocene/Holocene of the southwestern Atlantic Ocean.
- Long-term project about the taxonomy and zoogeography of Brazilian marine ostracods, with **Ana Luisa Carreno**, **Gerson Fauth**, **Maria Ines Feijo Ramos**, and **Robin C. Whatley**.
- Oligocene-Holocene southernmost Brazilian ostracods and foraminifers and their applications to palaeoenvironmental and biostratigraphical analysis, with **Ana Luisa Carreno**.
- Cretaceous ostracods from Potiguar, Araripe, and Reconcavo Basins (all of them in the northeastern Brazil), with **Dermeval Aparecido do Carmo** and **Ana Luisa Carreno**.
- Ostracods from the Brazilian oceanic islands (Atol das Rocas, Trindade, and Fernanco de Noronha).

I have three PhD students:

- **Cristianini Trescastro Bergue** is working with deep sea ostracods from Quaternary cores of the Santo Basin, southeastern Brazil.
- **Claudia Pinto Machado** is studying the taxonomy and paleoenvironments of five offshore drill holes from Pelotas basin, southernmost Brazil.
- **Geise de Santana dos Anjos** is working on biostratigraphy and sea level changes (based on foraminifers) of five offshore drill holes from Pelotas Basin, southernmost Brazil (co-advised by **Ana Luisa Carreno**).

An M.Sc. student, **Pauline di Mari Leopoldo**, is beginning a study on deep sea ostracods from the core (3200 m in depth, 7.6 m of sediments) localized in the southern part of the southwestern Atlantic.

Demetrio Nicolaidis

Is an undergraduate student, is working on ostracods and foraminifers from an outcrop of the Yecua Formation, Bolivia.

Gerson Fauth

He is working in collaboration with **Joao Carlos Coimbra** on Quaternary ostracods of the Brazilian shelf.

Renato Olindo Ghiselloi Junior

She is a PhD student working on ostracods as environmental indicators in the polluted Guanabara Bay, Rio de Janeiro State, Brazil. Her advisor is **Dr. Beatriz B. Eichler**, an expert in the applications of foraminifers as indicators of polluted marginal and marine areas.

Ricardo Lourenco Pinto

He is a PhD student in zoology and is studying ostracods from semi-terrestrial habitats in Sao Paulo State, Brazil. He is co-advised by **Koen Martens**.

Paulo da Silva Milhomen

He is a petroleum ostracodologist at Petroleo Brasileiro S.A.—PETROBRAS. He is working with biostratigraphy based on nonmarine Cretaceous ostracods from the marginal Brazilian petroleum basins.

Iraja Damiani Pinto

He is working on palaeoentomology from Brazil, Argentina, Uruguay, and South Africa more than than on ostracods.

Maria Ines Feijo Ramos

She is working with Cretaceous, Tertiary, and Recent ostracods in the following projects:

- Neogene ostracods from Pirabas Formation, Para State, Brazil.
- Neogene ostracods from the Solimoes Formation, Brazil.
- Marine Recent ostracods from the Brazilian continental shelf.
- Nonmarine Cretaceous ostracods from Codo and Itapecuru Formations, Sao Luis Basin, Maranhao State, Brazil.

She has been working in collaboration with **Robin C. Whatley** (University of Aberystwyth, UK) and **Joao Carlos Coimbra** (Universidade Federal do Rio Grande do Sul, Brazil). She is supervising a graduate student, **Ana Paula Linhares** (Neogene ostracods from Pirabas Formation, Para State, Brazil) and undergraduate volunteer students in microfossils and curation activities.

Maria Ines has been working as Curator of the Invertebrate Paleontology Collection from the Museum Paraense Emilio Goeldi, Para, Brazil.

Norma Wurdig

She has invested most of the time in ecology of estuarine meiofauna from southern Brazil. She has a post-doctoral student, **Dr. Luis Fernando Gutteres**, who is beginning studies in ecology and taxonomy of nonmarine ostracods from southern Brazil.

CANADA

Christine McClelland

I work at the Canadian Museum of Nature in Ottawa. My research interests include all things ostracode, polar marine benthic community ecology, climate change, and fossil records. I had the opportunity to take part in two sampling expeditions to the Beaufort Sea with my supervisors, **Dr. Kathy Conlan** and **Dr. Alec Aitken**. I have an undergraduate degree in biology and am soon returning to school for my master's degree in ostracode ecology.

FRANCE

Correspondent: Jean-Paul Colin

Bernard Andreu

He is working on:

- The Upper Cretaceous of the Pyrenees, France.
- Jurassic (Callovian-Oxfordian) of Portugal.
- Lower Cretaceous (Aptian-Albian) of Bulgaria.
- Jurassic and Cretaceous of Jaisalmer Basin, Rajasthan, India.
- Jurassic and Cretaceous of Junggar Basin, China.

Thesis supervision:

- **Rossi**, Semlalia University, Marrakech, Morocco, "*Ostracod assemblages from the Lower Cretaceous of the Basins of Agadir and Essaouira, Morocco*"
- **M. El Ettachfinie**, Chouaib Doukkali University, El Jadida, Morocco, "*Cenomanian and Turonian Moroccan series: lithology, micropaleontology and sequence stratigraphy*".

Malvina Artheue

Thesis: “*Structure and origin of the communities in ground waters of Roussillon, local and regional determinism of biodiversity*”. This work is partly supported by the European program PASCALID (Protocol for the Assessment and Conservation of Aquatic Life in the Subsurface).

Jean-Francois Babinot

Retired since November 2003, but still working without any constraint on:

- Late Aptian (Gargasian) stratotype outcrops in SE France (Provence).
- Revision of ostracod faunas associated with a detailed revision of the biostratigraphic content (ammonites, foraminifers, etc.) (with **M. Moullade** and **G. Tronchetti**, Marseille).
- Studies on some areas of the Mediterranean Neogene, especially in southeast France and Spain, western Maghreb, Corsica, and Turkey.
- Coniacian-Santonian ostracodes from eastern Algeria.
- Investigations on several Triassic, Late Cretaceous to Oligocene deposits of Provence, related to a revision of the age of some problematical tectonic units (with **J. Philip**, Marseille).
- Babinot’s ostracode collections are deposited in the Museum of Paleontology, Universite de Provence, Marseille; all major taxa deposited will be computerized in the future.

Anne-Marie Bodergat

Working on:

- Distribution of ostracodes in Kagoshima Bay, Japan, for the last one hundred years, in collaboration with **Dr. K. Ishizaki** (Sendai University, Japan), **K. Oki** (Kagoshima University, Japan), and **H. Bertrand** (Ecole Normale Superieure, Lyon, France).
- Distribution of Recent ostracodes in Senegal River, in collaboration with **A. Ly** and **R. Saar** (University of Dakar, Senegal).
- Lower Jurassic ostracodes from Algeria, in collaboration with **S. Elmi** (University Lyon 1, France), **A. Sebbane** and **M. Mekahli** (University of Oran, Algeria).

Students and research topics:

- **S. Benali-Baitich**, *Plio-Pleistocene ostracodes from Rhodes, Greece*, in collaboration with **P. Moissette**.
- **S. Gasne**, *Non-marine Lower Cretaceous ostracodes from Los Cameros Basin, Spain*, in collaboration with **J.-P. Colin** and **J.-P. Garcia**.
- **Maillareds**, *Miocene ostracodes from Crete, Greece*, in collaboration with **P. Moissette**.
- **S. Tchenar**, *Toarcian ostracodes from Algeria*, in collaboration with **A. Sebbane**.

Pierre Carbonel

Working on:

- Ostracode faunas as indicators of paleohydrologic variations in archaeological sites—Marseilles (Lacydon), Cyprus (Larnaca), Saida, Alexandria, Morocco (Oued Assaka), St. Martin (Antilles), in collaboration with **Ch. Morhange**, **K. Espic** and **J.-P. Goiran**, (Aix)

with **L. Wengler** (Perpignan) and **P. Bertran** (INRPA, IPGQ Talence), programmes ECLIPSE I and II.

- Ostracode faunas as indicators of paleohydrologic variations in deep sea areas—deep sea fan of the Nile during the last 450 KY; ostracodes from the Bay of Biscay—relationships with biogeochemical processes of the first cm of sediment, seasonal aspects (Programs OXYBENT and SEDICAN).
- Ostracode faunas from fresh and brackish environments—Vie estuary, seasonal repartition, in collaboration with **J.-P. Devenay** (Angers), southern Portugal, in collaboration with **J.-P. Colin** and **M.C. Cabral**.
- Freshwater ostracodes from the lower Miocene from Aquitaine Basin, in collaboration with **D. Danielopol** and **J.-P. Colin**.
- *Krithe* problem(s), various collaborators.

Matthieu Chassaing

I am a student in the University of Tours in France, working on a master's degree (the fifth year of university in France). I am working in collaboration with **P. Carbonel** from the University of Bordeaux on the Late Quaternary ostracodes from a karst lake in the Middle Atlas, Morocco. My university education was in surficial geology, but I have spent the last two years specializing in lacustrine Quaternary paleoenvironments and the meaning of ostracode assemblages.

Jean-Paul Colin

- “Purbeckian” ostracodes from southwest France (Charente, Oleron).
- Checklist and inventory of the ostracods from New Caledonia (with **T. Hoibian**, Noumea).
- Nonmarine ostracodes from the Aquitanian stratotype (with **P. Carbonel**).
- Plio-Pleistocene limnic ostracodes from Portugal (with **C. Cabral** and **P. Carbonel**).
- Upper Jurassic and Lower Cretaceous ostracodes from Portugal (with **C. Cabral**).
- Upper Jurassic and Lower Cretaceous ostracodes from Lebanon (with **J. Dejax**).
- Mid-Cretaceous ostracodes from the Western Interior, U.S.A. (with **N. Tibert**).

Scientific advisor for the Revue de Micropaleontologie; Vice-President, Reserve Naturella Géologique de Saucats La Brede; Vice-President, European Ostracode Group; President, French Ostracologists Group.

Laure Corbari

I am preparing a PhD with **Dr. Massabuau** as a supervisor. I am studying how ostracods can adapt to changes in water chemistry, especially water oxygenation levels. I am working on animals originating from the Bay of Arcachon of Biscayne. The final goal is to get more insight into the relationship between ostracods and oxygen using the relationship of *Krithe* (vestibule size/oxygen). I am using video imaging, gas control system in thermostated micro-aquarium, and oxygen electrodes.

Sylvie Crasquin-Soleau

Over the past two years, I focused my work on the Permian-Triassic boundary. I studied different sections in Turkey (western Taurus and Hazro area), in Saudi Arabia, and in Iran (central and eastern Elburz). I published a synthesis on the Palaeocopides through the P/Tr boundary. I have some collaborative projects in China, and I am working on Permian-Triassic boundary type sections in different environments from shallow to basinal (south China). I continue to analyze the Permian and Triassic fauna in other areas such as Thailand, Bolivia, and Sicily.

Thesis supervision: **A. Chitnarin** (Suranaree University of Technology, Nakhon Ratchasima) began a PhD thesis on the Carboniferous and Permian ostracodes from northern Thailand.

Sophie Dupont

Activities during 2002-2003 involved the ecology of recent estuarine ostracodes and relationships between ostracodes and quality of brackish water. I began research on ostracodes in December 2002. During the past two years, I have collected sediment samples every two months at five points of the Slack estuary (north of France). Water is analyzed for different physical-chemical parameters (temperature, dissolved oxygen, salinity, nitrates, phosphates, etc.). Ostracodes are extracted from sediment, counted, and identified. The aim for 2003-2004 is to complete ostracode identifications, to provide a description of ostracode populations in this estuary over two years, and to reveal any relationship between physical-chemical parameters and ostracode species.

Sabine Gasne

DEA Universite de Dijon—*Paleoenvironmental and biostratigraphical interest of ostracodes from Los Cameros Basin, Spain* (supervision **A.-M. Bodergat** and **J.-P. Colin**).

Ulrich von Grafenstein

I have stabilized my professional situation, which means that I can continue to work on Quaternary freshwater ostracode fossils and their isotopic and geochemical signatures.

Claude Guernet

Ostracodes and Neogene and Quaternary stratigraphy of the Mediterranean area.

Pierre Marmonier

Two major projects for the next few years:

- Effects of landscape changes linked to agriculture on stream fauna, including ostracods (4th year of the program).
- Micro-evolution of the species *Cryptocandona kieferi*, comparing populations from the Rhone, the Rhine, and the Danube Rivers (in collaboration with **Dan Danielopol**, Austria and **Tandez Namiotko**, Poland). The study of the systematics of groundwater ostracods from Morocco (in collaboration with **M. Boulal** and **B. Idbennacer**, University of Marrakech) is finished and submitted for publication.

Jean-Charles Massabuau

I am a respiratory physiologist who has been working with one of my students, **Laure Corbari**, on some aspects of ostracod respiratory physiology. We are preparing a paper entitled “The *Cytherella* tool to reconstruct paleo-oxygen levels: basis of respiratory physiology in an ostracod platycope”. In this paper we focus mainly on *Cytherella lata*, and we worked on the respiratory basis of the Whatley hypothesis.

Henri J. Oertli

No “creative activity”, just continuation (since 1964) of writing abstracts of published papers dealing with Post-Paleozoic Ostracoda, for the “Zentralblatt fur Geologie und Palaontologie” (Schweizerbart, Stuttgart). Further abstracting till the end of June 2004, then definite retirement! Great thanks to all colleagues who sent papers and other information. **Dr. Friedrich Luppold**, Hannover (Germany) will continue abstracting for the “Zentralblatt”.

Vincent Perrier

I have been working one year on my PhD about “*The Early Palaeozoic colonization of pelagic niches exemplified by myodocope crustaceans from Europe*”. My supervisors are **Dr. Jean Vannier** (Lyon, France) and **Dr. David Siveter** (Leicester, England). The material I am working on comes from the Upper Silurian layers of the Armorican Massif. I will study other regions in Europe such as Bohemia, Wales, and Sardinia. I am interested in Recent ostracods for comparison with my fossils to determine the autecology and the phylogenetic relationships between Recent and Silurian myodocopes.

Laurent Picot

I am working on lacustrine and marine Paleogene ostracodes from the Jura Mountains and the south Rhine margin—taxonomy and mainly paleoecology. I worked with **D. Danielopol** on Recent lacustrine ostracodes from Mondsee (Austria). The ecological distribution, taxonomic and morphologic diversity of the ostracode faunas have been studied using an actuo-paleontological approach. The development of the Morphomatica program allowed us to realize precise morphological comparisons and to quantify those. I wish to be able to pursue this type of study and to apply these new methods to Paleogene ostracodes.

Jacques Sauvagnat

Barremian ostracodes from southeast France.

Yvette Tambareau

I do have possibilities to work on ostracods, but I keep an active interest in Tethyan Paleogene biostratigraphy, organizing field trips.

GERMANY

Claudia Didie

I am working in a project funded by the German Research Foundation on Recent ostracodes of the SW Atlantic. In this project, the ostracode fauna is compared to the benthic foraminiferal fauna of the same samples with the aim to learn more about environmental preferences of the still-not-well understood deep marine ostracodes. The stable carbon and oxygen isotopes of *Krithe* and *Henryhowella* will be analyzed to find out about taxon specific offsets from the isotope values of the host water. Valves of these genera will be analyzed for their trace element contents.

Claudia Dojen

I am writing my PhD thesis on Early Devonian ostracods from the eastern Iberian Chains (Spain). My main interests are taxonomy, palaeoecology, and palaeogeography. Most faunas are of Eifelian ecotype. Hopefully, the thesis will be finished in 2003. A short study about Early Devonian ostracods of Thuringian ecotype from Anatolia (Turkey) is in preparation by **G. Becker** (Frankfurt), **M.C. Goncuoglu** (Ankara), and me.

Peter Frenzel

I am working on Recent and Holocene ostracods and foraminifers from the Baltic Seas in the Department of Marine Biology at Rostock University in northern Germany. The focus lies on taxonomy, ecology and palaeoecology. I hope to finish my Habilitation thesis about this topic in 2005. We are preparing the ISO15 in Berlin, where **Finn Viehberg** and I will guide the Baltic coast excursion.

Helga Groos-Uffenorde

She is working in the Geology Department of Goettingen University (GZG, Geobiology), despite the fact that she retired in March 2003. Because of health problems, her work up to January 2005 concentrated on teaching Micropalaeontology and Biostratigraphy.

Eugen Karl Kempf

Although retired, I continue to work on the "*Kempf Database Ostracoda*". The second supplements to the published indexes and bibliographies are steadily growing, forming parts 11 to 15 of the series "*Index and Bibliography of Nonmarine Ostracoda*" as well as "*Index and Bibliography of Marine Ostracoda*". Mainly due to working in retirement, it is difficult and expensive to get the necessary literature. It would be of great help if ostracodologists would send copies of their papers soon after publication.

In 2004, the first index from level 2 (+ stratigraphy) of my database was published on CD-ROM with the title "*Recent Marine Ostracoda of the World*". Herewith a unique instrument of reference

was available, forming a great step on the way toward a “**GRESS Ostracoda**”, where GRESS stands for **G**rowing **E**xpert **S**upport **S**ystem. Work is progressing well on the parts “*Recent Nonmarine Ostracoda of the World*” as well as “*Fossil Marine Ostracoda of the World*”.

In the year 2005 I remind you that publications of the “*Kempf Database Ostracoda*” have been in existence for 25 years. Looking back, I have experienced and enjoyed the rapid and immense development of data processing. Nowadays it is almost unbelievable that about 42,000 machine readable punch cards had to be provided for producing Index A of the series “*Index and Bibliography of Marine Ostracoda*”, for instance.

Dietmar Keyser

I continue the question of nodding in *Cyprideis*, together with **Prof. Aladin**, St. Petersburg, Russia; we analyzed the osmolarity of hemolymph in fresh- and brackish water ostracods. In 2003 a paper on this subject was presented in Istanbul and another on the Scharf Symposium in Poland. In connection with these questions, the problems of calcification in ostracods were studied and the results presented on the EOM V in Cuenca. The histology and calcification of the ostracod carapace is one of the major tasks we try to solve. Together with **Prof. Schornikov**, the distribution and systematic relationships in *Paradoxostoma* of Madeira and the Canary Islands were studied. The results were presented as a poster and a publication in Cuenca. Together with our colleagues in Berlin, cores of the Aral Sea bottom are being studied in the INTAS project CLIMAN to characterize climatic impact on the settlements of the early Aral Sea area.

Michael Kramer

I am studying a Holocene ostracod record from the Lake Zaling Hu (Gyaring Hu) situated in northwestern China. Ostracod assemblages and shell chemistry (stable isotopes and trace elements) are used to provide an appropriate data set to reconstruct the lake development and climate fluctuations during the Late Quaternary. The work is guided by **Dr. Steffen Mischke** and is connected to the project “*Ecosystems of Central Asia*” of the FU-Berlin.

This year I finished a diploma thesis about ostracods of a sediment core from the Koucha Lake (NE Tibetan Plateau). Recorded ostracod associations and element analyses (Ca, Mg, Sr) on valves of *L. inopinata* and *F. danielopoli* were used to reconstruct changes of the lake environment since the Last Glacial. Paleoclimatic trends regarding the Indian/Asian Monsoon could be estimated. The thesis work is supervised by **S. Mischke** and **M. Schudack** of the Freie Universität Berlin.

Peter Luger

My study on the Cretaceous Ostracoda from northern Somalia was completed during the last year. The outcome (publication) will take time, as this is part of my habilitation thesis. As a part of this study, a regional comparison of the North African-Arabian Cretaceous ostracodes will be published through the help of many colleagues (especially **Frans Koning** and his colleagues from *Palaeogeography, Palaeoclimatology, Palaeocology*) and by the much appreciated help of **John van Couvering** and **Seth Kaufmann**.

Friedrich W. Luppold

I investigate samples from the Jurassic and Cretaceous as service features to our Department of Geological Mapping. There are other activities on ostracode research—investigation and correlation of the Kirchrode II borehole, which consists of claystones of basinal sediments of Albian age with excellent ostracod faunas. By means of these results I will generate an ostracode zonation of the Lower Saxony basin. Further on activities for the ISO 15. For many years, **Henri Oertli** has reported on post-Paleozoic ostracod papers for “*Zentralblatt für Geologie und Paläontologie*”. I am his successor (authors: please send reprints for the Jurassic and Cretaceous!).

Renate Matzke-Karasz

Renate’s major research interests are micromorphology of freshwater ostracod soft parts and carapaces, fossil ostracod soft parts, morphology of reproductive organs, sperm-egg interactions in ostracods, taxonomy of freshwater ostracods, both fossil (Quaternary) and Recent and palaeoecology of ostracods.

Her main ongoing research:

- Investigation of additional appendages in African giant ostracod species (together with **Koen Martens**).
- Revision of the Uliczny collection in the Bavarian State collection of Palaeontology (ostracods from Pliocene of Cephalonia, 1969) (together with **Nasser Mostafawi**).
- Biostratigraphy and palaeoecology of a Neogene Paratethyan section in NW Turkey (together with **W. Witt** and several colleagues working on other biota).
- Sperm-egg interaction in ostracods with giant sperm.

She is one of the partners of the EU Marie Curie Research and Training Network ‘*SexAsex*’, coordinated by **Koen Martens**. Together with the anthropologist and chromosome specialist **Dr. Stefan Muller**, she forms the Munich post of the network, responsible for karyological, histological, and spermatological research on *Eucypris virens*, the model organism. Within this frame, the enthusiastic young ostracodologist **Radka Symonova** (Prague) will do her PhD in Munich and a postdoc (not yet appointed) will be ‘shared’ with the network partners in Brno (**Prof. Jan Zima**, cytogenetics) and Sheffield (**Prof. R. Butlin**, molecular biology).

Steffen Mischke

I am Associate Professor at the Institute of Geological Sciences of the Freie Universität Berlin (Germany). I work on late Quaternary climate change studies in central Asia using ostracod paleoecology and shell chemistry. Outcrop sections and lake sediment cores under investigation have Eemian (marine isotope stage 5e) or younger ages (MIS 3 to present). My group includes Diploma students **Ludwig Buckl** and **Michael Kramer**; the group has established the first ostracod-based electrical conductivity transfer function for the Tibetan Plateau using surface samples and limnological data from about 100 water bodies. The newly established transfer function was successfully applied to a Holocene ostracod record from Lake Kuchna on the

northeast Tibetan Plateau and presented at the 4th International Symposium on the Tibetan Plateau in Lhasa in August 2004.

Nasser Mostafawi

I work on the systematics, ecology, and stratigraphy of the Neogene ostracodes from the Aegean Islands. Several papers are in press. Other research activities focused (in cooperation with the Geogr. Inst., Marburg) on the archaeology and palaeoenvironment of the Aegean coast of Turkey. The main thrust of this study is the close integration of archaeological and environmental data to achieve an understanding of environmental changes and cultural impacts which have shaped the morphology of the area over time.

Benjamin Sames

I studied geology and palaeontology at Martin-Luther Universitaet Halle-Wittenberg, Germany and Freie Univeristat Berlin, Germany and received the Diploma in 2003. I began working on ostracods with my diploma thesis "*Taxonomy, palaeoecology, biogeography and biostratigraphy of calcareous microfossils (Ostracoda, Charophyta) of the Tendaguru Beds (Late Jurassic/Early Cretaceous) at Gendaguru Hill, Tanzania*" (translated title; advisor **Michael E. Schudack**, Berlin).

Since summer 2003, I have dealt with ostracodes of the nonmarine Early Cretaceous of the U.S. Western Interior (Lakota, Cloverly, and Cedar Mountain Formations) in my PhD (advisors **Michael E. Schudack**, Berlin, and **David J. Horne**, London). The work focuses on biostratigraphy, paleobiogeography, paleoecology, and evolution of important lineages (*Cypridea*-lineage, etc.). This includes improvements of the biostratigraphic record, revision and comparison of relevant faunas, biogeographic examination, and supra-regional interpretation in context with dispersal mechanisms plus plate tectonic and paleoclimatic developments through time. The main objective is an improvement of the biostratigraphic age determination of nonmarine Early Cretaceous formations in the U.S. Western Interior. The intention of my work is to utilize the ostracodes from North America for biostratigraphy. They were endemic for a long time, which seems unlikely now, especially since relationships of Late Jurassic North American and European nonmarine ostracode faunas have been demonstrated by **M. Schudack** in the 1990s.

Burkhard W. Scharf

I have been retired since May 1, 2004. I have more time than earlier to work on living and subfossil freshwater ostracods.

- I have studied the Late Glacial ostracods of a lake at Miesenheim in Germany. It can be shown that the Meiendorf Interstadial, the first interstadial after the Pleniglacial, has two temperate peaks (report in Shizuoka).
- I have investigated the freshwater ostracods on islands in the North Sea, Germany.
- In 2000, I collected ostracodes in Laguna de la Laja (Andes, Chile) and in coastal lakes of Uruguay and India.

- Together with my wife and Indian colleague, in 2000 we have collected many surface samples and cores from the biggest lagoon in Asia, the Chilika Lake in India. **Dietmar Keyser** and I are investigating the ostracods.
- I have investigated the development of ostracods in Late Glacial and Holocene sediments from an inland saline lake in Germany.
- At the moment, I am studying the occurrence of an entocytherid ostracod species in Germany, imported from North America.
- I will stay for several months in Stettin, Poland, to work on hydrobiological themes, including ostracods.

Michael Schudack

He continues his research on ostracods and charophytes. His current main activities on ostracods and charophytes include research projects on the Late Jurassic and Early Cretaceous of Europe, Central Asia, and North America, and the Holocene of Central Asia. His main focus (depending on the project) lies in biostratigraphy, paleoecology, biogeography, paleoclimatology, and stable isotope shell geochemistry. A running application for a research project deals with Quaternary charophytes and paleoclimates in western China.

Completed thesis: *Micropaleontology of Tendaguru Formation (Upper Jurassic, Tanzania)* (**B. Sames**).

Thesis supervision:

- Early Cretaceous ostracods from the Rocky Mountains, USA (**B. Sames**).
- Early Cretaceous ostracods from eastern Spain.
- Two master's thesis on Quaternary ostracods from the Holocene of China (**B. Bookhagen** and **M. Kramer**, in cooperation with **S. Mischke**).
- Late Jurassic ostracods from eastern Spain (**K. Kussius**).
- Rhaetian ostracods from northern Germany (**K. Oppermann**).
- Early Cretaceous charophytes from the Rocky Mountains, USA (**N. Siegling**).

Michael will organize the 15th International Symposium on Ostracods (ISO15) in Berlin in September 2005.

In November-December of 2002, our institute had the pleasure to welcome ostracodologist **Khand Yondon** from Mongolia. We had two successful months of joint work.

Ulla Schudack

Ulla has given up ostracod research for the moment due to repeated rejection of the "Deutsche Forschungsgemeinschaft" to support her studies. She will co-organize the 15th International Symposium on Ostracoda (ISO15) in Berlin in September 2005.

Antje Schwalb

In 2002, Antje finished her Habilitation and moved to a permanent faculty position at the Technische Universität Braunschweig. Her Habilitation thesis, "*Lacustrine ostracodes as stable isotope recorders of late-glacial and Holocene environmental dynamics and climate*" will be published in 2003.

Henning Uffenorde

He had an early retirement in Hamburg in April 2003. His scientific interests include Oligocene and Miocene Ostracoda.

Finn Viehberg

He finished his PhD studies in 2005 and will offer the first ecological training set for freshwater ostracods in northeast Germany. He is involved in a paleolimnological project, reconstructing the late glacial and Holocene environment of the largest lake in north Germany (Lake Mueritz). The multi-proxy approach includes sediment, pollen, diatoms, ostracods, and eventually cladocerans.

Past studies included the late glacial and Holocene evolution of the southern Baltic Sea and water level variations in Lake Krakower Sea in cooperation with **J. Ansorge, P. Frenzel, G. Hoffmann,** and **S. Lorenz.**

After the PhD, he will continue his work on living and subfossil ostracods and intensify his skills in cladocerans. He is aiming for future paleolimnological projects and has applied for a scholarship, which has not yet been decided. He has designed a new tool for collecting living ostracods and other aquatic organisms to short cut the long picking sessions in the laboratory from sediment samples.

HUNGARY

Anita Kiss

I study freshwater ostracod assemblages in the Danube River and the connected wetlands and several small water bodies—time and spatial scale composition of assemblages, bio-indication possibilities with ostracods and other micro crustaceans (Cladocera, Copepoda) and study of ecological and population dynamics of a few ostracod species—field test and laboratory experiments.

IRAQ

Hanan Z.M. Hussain

I am working on a master's thesis on ostracods from a region in the middle of Iraq.

ISRAEL

Correspondents: A. Honigstein and A. Rosenfeld

Amnon Rosenfeld, Avi Honigstein

Published their Eocene ostracode paper in *Micropaleontology* (together with **C. Benjamin**, Ben Gurion University, Beer Sheva, Israel). The report on Holocene Mediterranean ostracodes from north Israel (together with **Rosalie Maddocks**, University of Houston, USA) is in its final stage. A paper describing new material from the Permian subsurface is in preparation, and we finished the taxonomic chapter. This article will update the paper by Gerry et al., 1987 on the Israel Permian ostracode faunas. The results of our study will be presented at the next ostracode symposium in Berlin, 2005.

An abstract on brachiopods and ostracodes of Jurassic outcrops in Israel and their paleoenvironmental implications was prepared for the Annual Meeting of the Geological Society of America in Denver, 2004, together with **H. Feldman** (Touro College, New York, USA). We are continuing work on the Eocene, Cretaceous, and Jurassic assemblages of our region. Amnon published a paper on Pleistocene ostracodes and pre-history. He returned in summer 2004 from a half-year sabbatical at the American Museum of Natural History, New York (host: **John van Couvering**). Thanks, John!

Avi attended the XV Geological Congress Geological Society Argentina, El Calafate, Argentina in 2002 and the V International Conference on Asian Marine Geology, Bangkok, Thailand in 2004. A new member to the ostracode community is **Benny Guralnik**. He is a geology student at the Hebrew University, Jerusalem. He currently studies the paleoenvironment of the Timsah Springs (southwest of Haifa). In this research, he performs isotopic measurements and biometric studies on *Cyprideis torosa*.

ITALY

Correspondent: Elsa Gliozzi

Claudio Belis

He studied stable isotopes in latest Pleistocene ostracods from Lake Albano. Recently, he moved to Late Glacial sequences from sites in northern Italy. At present, he works on ostracods only during his free time.

Pietro Miculan

I am working on brackish-water faunas of the late Miocene (Messinian “Lago-Mare”) from the western Mediterranean area. Research interests include: (1) Miocene deep-sea ostracods of the Mediterranean area and (2) Lower Miocene ostracods from Libya.

Giampaolo Rossetti

He continues his activity on taxonomy and phylogeny of Recent Darwinulidae in cooperation with **Koen Martens**. He investigated the ostracod distribution in wetlands of northern Italy in relation to the environmental characteristics of the study sites. He is sub-coordinator of the EU Marie Curie RTN Network SexAsex, aimed at investigating why sex exists at all, given its evolutionary costs, using the model organism *Eucypris virens*. Two other projects will start in spring 2005 on the study of ostracod communities in alpine springs and alpine wetlands in northern Italy.

Valentina Pieri

In 2004, she started her PhD, dealing with the possible use of freshwater ostracods as indicators of water quality. She is currently working on the taxonomy of ostracods collected in Italian localities, including lowland springs in Lombardy and temporary pools in Sicily. One of the expected outcomes of her research is the update of the checklist of Italian nonmarine ostracods.

UNIVERSITY OF CATANIA

Francesco Sciuto

Research on the palaeoecology and stratigraphy of Plio-Pleistocene deep-water ostracod assemblages. Current research is the living and dead ostracod assemblages from the Mediterranean and Thailand.

- *Contribution to the knowledge of ostracod thanatocoenoses from circa littoral bottoms off Aci Trezza (Jonian Sea, east Sicily)*—this study represents a first contribution to the knowledge of the ostracod faunas from off Aci Trezza (eastern Sicily). Studied thanatocoenoses originate from samples coming from soft bottoms within the intermediate to deep horizons of the circa littoral zone in thick coastal and shelf edge detritus assemblages, or transitions between them and the muddy detritus assemblage, have been found. Assemblages consist of species presently living in the Mediterranean. Their analysis enlightened us on species richness and specimen abundance, which are not linked to bathymetry. Ostracode qualitative and quantitative distributions seem to be strongly related to sediment texture.
- *Preliminary data on Pliocene ostracods from capo Milazzo (NE Sicily)*—Ostracod benthic assemblages from deep water Upper Pliocene sediments cropping out at Cala S. Antonino (Capo Milazzi, NE Sicily) have been studied. Layers of silts and sands, locally about 13 m thick, fill previous depressions. They overlie Tortonian conglomerates and are overlain by Tyrrhenian shallow water deposits topped by tuffs. Seven samples yielded 43 taxa, 34 of which occur at a specific level. Ostracods are abundant (51-113 specimens per sample), although assemblages are poorly diversified, especially in the basal samples. Assemblages consist of five abundant species—*Bythocypris bosquetiana* (Brady), *B. obtusata* (Sars), *Bairdoppilata conformis* (Terquem), *B. profunda* Aiello, Barra, and

Bonaduce, and *Agrenocythere pliocenica* (Seguenza). Five other species [*Costa tricostata* (Reuss), *C. tricostata pliocenica* Ruggieri, *Henryhowella sarsi profunda* Bonaduce, Barra, and Aiello, *Acanthocythereis histrix* (Reuss) and *Quasibuntonia sequenziana* (Ruggieri)] are less frequent and abundant. Assemblages are dominated by species whose distribution is restricted to bathyal environments together with species which are widely distributed. Among the most abundant species, the still extant *Bythocypris obtusata* is known in the Atlantic-Mediterranean region from 595-2700 meters, whereas *Quasibuntonia radiatopora*, seemingly extinct in the Mediterranean, has been recorded from 975-2780 meters in the Atlantic. *Henryhowella sarsi profunda* seems to have a similar distribution together with the extinct *Bairdoppilata profunda* and *Costa tricostata pliocenica*, both species exclusively found in typically bathyal assemblages from the “Trubi” and the grey-bluish clays. It is worth noting the constant presence of *Agrenocythere pliocenica*, the only ostracod considered as strictly psychrospheric, thus indicating oceanic hydrological conditions. Other species show wider distributions also thriving in shallower waters as *Cytherella vulgatella*, which colonizes infralittoral bottoms; *Bairdoppilata conformis*, *Pseudocythere caudate*, and *Cytheropteron alatum*, also living in all the circalittoral zone; and *Bythocypris bosquetiana* and *Monoceratina mediterranea*, whose distribution extends up to the shelf break. Species exclusively living in shelf environments are absent or extremely rare. The scant diversification of species points to a deep-water palaeoenvironment as well as the structure of the assemblages, characterized by the dominance of a few number of species, which appear to be typical of bathyal environments, usually relatively stable although difficult to colonize. All considering, it has been possible to infer a deep palaeobiotope located at a depth seemingly exceeding 600 meters, which agrees with evaluations made using foraminifers.

- *Pliocene ostracod assemblages from Centuripe (Sicily): palaeoenvironmental inference*— Ostracod assemblages from a 320 m thick Pliocene terrigenous succession cropping out near Centuripe (Sicily) in a complex geological context, have been studied. Palaeoenvironmental reconstruction was performed integrating different approaches such as the autoecological meaning of single species with the analysis of specimen abundance, species richness, population structure and taphonomic features, all joined with the grouping of ostracod species within distribution stock. This study allowed tracing the evolution of the depositional basin. A deep although proximal environment with a palaeobathymetry not shallower than about 300 m and not deeper than 500 m has been hypothesized for the basal layers containing species living in bathyal environments but lacking in the psychrospheric ones. Abundant specimens belonging to infra-circalittoral or even exclusively infralittoral species have been interpreted as displaced from shallower bottoms and added to the autochthonous assemblages. A shallowing has been postulated for the middle part of the section owing to the presence of species having circalittoral to bathyal distributions joined with the disappearance of exclusively deep-water species. Finally, the upper part seemingly deposited in circalittoral palaeoenvironments and the topmost part, near the infra-circalittoral boundary as infra-circalittoral species, characterized by shallower depths ranges progressively appear. Allochthonous, exclusively infralittoral inputs are obvious also in this part of the section. The extent of displacements, all along the section, points to a marginal location of the sedimentary environment, adjacent to a steep palaeobasin and was seemingly triggered off by syntectonic activity.

- Enhanced biodiversity in the deep: Early Pleistocene coral communities from southern Italy*—Deep-sea scleractinian assemblages are still poorly known as well as the associated faunas in both Recent and fossil record. An exceptional possibility of investigating fossil coral communities is offered by southern Italy localities where Quaternary tectonic activity caused uplift and outcrops of deep palaeoenvironments. An excellent case study is given by the Furnari area (northeastern Sicily), where a small marginal basin was filled by Quaternary siliciclastic-bioclastic mid-shelf deposits evolving to bathyal muds. Early in the Pleistocene a normal fault cut these sediments, forming a cliff stabilized by early diagenesis and the development of a goethite cover. The newly formed hard bottom, rapidly sunk at bathyal depths, was suitable for colonization by deep-water sessile and motile epifaunal organisms whose life would be prevented in soft, fine grained sediments which were depositing at the cliff base. Observations were performed on the fault plane and samples were taken in the rubble apron along the fault scarp and in the bathyal muds a few meters from the fault. Analysis involves corals, mainly scleractinians and subordinate stylasterids, mollusks, serpulids, bryozoans, ostracods, and brachiopods. Solitary and colonial scleractinians, mainly *Madrepora oculata*, *Enallopsammia scillae* and Isidids, grew directly on the cliff as seen by cemented bases. Other organisms, such as some serpulids, bryozoans, and the bivalve *Spondylus gussoni*, colonized the scarp crust. Although neither well-spaced and not forming true banks nor tickets, corals prompted microhabitat differentiation, thus enhancing local biodiversity. Moreover, they contributed to carbonate production in the area. The lightly displaced coral fragments, in fact, accumulated along the scarp, building localized rubble aprons up to 10 cm thick, which, in turn, provided coarse grain substrate to other organisms, among which encrusting sessile serpulids and bryozoans, together with numerous vagile gastropods. Skeletal remains were added to the *in situ* faunas from shallower palaeoenvironments. Neighboring soft bottoms, on the contrary, show less diverse communities lacking corals and mainly consisting of infaunal protobranchiate bivalves, ostracods, and a few small size encrustors. Analysis of composition and structure of the diagenized fossil assemblages allow identifying in the bathyal zone different palaeocommunities and their facies, which lived within psychrospheric conditions in shallow horizons of the epibathyal zone, probably deeper than 300 m.
- Pleistocene bathyal ostracods from Capo Milazzo (NE Sicily) and palaeoenvironmental implications*—Pleistocene ostracod assemblages from the upper layers (*Globigerina cariaensis* and *Globorotalia truncatulinoides excelsa* Zones) of a sandy to silty succession cropping out along the southern side of the Capo Milazzo Peninsula (NE Sicily) have been studied. Ostracods are abundant and well diversified, specimens and species respectively accounting for about 188 and 381 and 38 and 78 in the two samples examined. Ostracod assemblages have a palaeoecological meaning similar to those from the underlying Upper Pliocene sediments, pointing to a bathyal depositional palaeoenvironment, seemingly deeper than about 600 m. Nevertheless, both species and specimens markedly increase in number, a character shared with other Mediterranean deep sea successions, at the Pliocene-Pleistocene boundary. In the present instance, the increment in species richness and, above all, in specimen abundance, could have been enhanced by an increased availability of trophic resources at the bottom surface, seemingly coupled and/or linked to fine deposition.

- *Shallow water ostracods in front of Mae Khlong River mouth (NW Gulf of Thailand)*—The study of the ostracod fauna of shallow marine environments, strongly influenced by human activity off the Mae Khlong river mouth (NW Gulf of Thailand, north of Phetchaburi) allows the identification of 34 species belonging to thanatocoenosis and, subordinately, to biocoenosis. The relationships between ostracods and water depth and substrate are discussed in order to identify species which are tolerant of the changes in these environmental parameters. Ostracod distributions are related to salinity, pH, and dissolved oxygen. Moreover, using the Shannon Weaver index as a measure of ecosystem health, it has been possible to highlight the deterioration of environmental conditions at the investigated sampling stations and to identify the species which are tolerant of human-induced environmental changes.
- *Environmental monitoring through the shallow marine ostracods of Phetchaburi area (NW Gulf of Thailand)*—the study of the shallow water ostracod fauna of the coastal area near Phetchaburi allows the identification of 38 species. Considering the data of some environmental factors, it has been possible to recognize some ostracod groups which indicate relationships with depth and substrate. The application of Shannon Weaver (H') index demonstrates that the best conditions of species richness and equitability and equitable environmental conditions are present in the central-southern sector of the investigated area. Conversely, stressful conditions occur in the northern sector in front of the Mae Khlong river mouth, which drains seaward pollutants and nutrients. Except for two sampling stations without ostracods (H' not calculated), H' values are included by us in four categories. It is assumed that the environmental conditions improve from H' 1 to H' 4. The presence of the ostracod species in these categories is evidence of some observations concerning their high or reduced capability to tolerate the variations of the environmental conditions. Species occurring in several categories are more tolerant than those present in a reduced number of categories. The former species can be labeled as opportunistic, and the latter species can be considered “in equilibrium” or less opportunistic. Through the multivariate analysis, it has been possible to see combinations of species linked to the H' categories and, thus, useful to identify the environmental conditions. This work is evidence that ostracods can be good markers of environmental variability, so becoming useful tools for the monitoring of a coastal area showing particular conditions linked to strong river influence and human activity.
- *Shallow marine ostracods of Phetchaburi area (NW Gulf of Thailand as environmental markers)*—this research plans to analyze the ostracod fauna of the coastal area near Phetchaburi (Gulf of Thailand). This area shows two sectors: the northern one is strongly influenced by the rivers and channels, draining pollutants and nutrients; the southern one usually denotes marine conditions. The study shows a shallow water ostracod fauna consisting of 40 species belonging to a biocoenosis and thanatocoenosis. From an ecological point of view, it has been possible to recognize more or less precise links among environmental factors and ostracod species. In particular, these data show D and S groups of ostracods consisting of species which are able to indicate more or less precise variations of depth (D) and substrate (S), respectively. The application of Shannon Weaver index demonstrates that the best conditions of species richness and equitability; thus, the best environmental conditions occur in the central-southern sector of the investigated area. To the contrary, the worst conditions occur in the northern sector in front of the Mae Khlong river mouth. Following the Shannon Weaver values, the sampling stations can be included

in five (SW 1 to SW 5) categories. It is assumed that the environmental conditions will improve from SW 1 to SW 5. The presence of the ostracod species in these categories allows some observations concerning their high or reduced capability to tolerate the variations of the environmental conditions. Species occurring in several categories are more tolerant than those present in a reduced number of categories. The former species may be labeled as opportunistic; the latter species may be considered “in equilibrium”, considering that they appear in categories characterized by more or less high values of the index. Moreover, it appears evident that the opportunistic species are exclusive and sometimes dominant in sampling stations characterized by low values of Shannon Weaver index. Through the multivariate analysis, it has been possible to evidence several combinations of species linked to the SW categories, and useful to identify more or less well defined environmental conditions. This work shows that ostracods can be good markers of the environmental variability, becoming useful tools for the monitoring of a coastal area showing particular conditions linked to strong river influences and anthropomorphic influence.

UNIVERSITY OF PARMA

Carlo Bellavere, Giorgio Benassi, Andrea Gandolfi, Paolo Menozzi (University of Modena and Reggio Emilia), **Lorena Rebecchi, Valeria Rossi**

Main topics:

- Population ecology and population genetics of several species—*Heterocypris incongruens*, *Eucypris virens*, *Darwinula stevensoni*. Genetic variability in time and space were evaluated in relation to the ecology and biological characteristics of species with special reference to dormancy and reproductive modes. In obligate parthenogenetic populations of *D. stevensoni*, in geographic parthenogenetic populations *H. incongruens* and *E. virens*.
- The main topic is the evaluation of coexistence, maintenance and spread of amphimictic and parthenogenetic lineages of *Heterocypris* and the hybrid origin of several clonal lineages. This includes analysis of:
 - Genetic relationship between different lineages, molecular mechanisms, reproductive cytological mechanisms.
 - Life history traits in different lineages.
 - Population dynamics of co-existing different lineages.
 - Intraclonal variability and phenotypic plasticity in apomictic clonal lineages.

UNIVERSITY OF ROMA TRE

Elsa Gliozzi

She continues her research on Late Miocene (Tortonian-Messinian athalassic or Lago-Mare) ostracod assemblages from several localities in Italy, from taxonomic, palaeoecologic, and palaeobiogeographic points of view. She has been the supervisor of several master's Theses on these topics and published the results together with **Maria Elena Ceci, Luca Tassone, and Silvia Ligios**.

At present, together with **Maria Chiara Medici** (master's student), she is carrying out research on a freshwater ostracod fauna dated Middle-Late Pleistocene, collected in central Italian deposits of

Umbria. Together with **Costanza Faranda** and **Ilaria Mazzini**, she is working on the Plio-Pleistocene marine ostracods of Latium.

Francesco Grossi, PhD student is carrying out a thesis concerning the Late Messinian “Lago-Mare” ostracod assemblage from the Mediterranean area.

JAPAN

Hirokazu Ozawa

Hirokazu Ozawa has completed a doctoral thesis “*Recent and Pleistocene ostracod fauna along the Japan Sea coast—a case study of extinction for the Omma-Manganji species*”. I moved from Kanazawa University (**Dr. Takahiro Kamiya’s** lab) to the National Science Museum of Japan, Tokyo (**Dr. Yoshihiro Tanimura’s** lab) in March 2002.

Current research on ostracods includes:

- Ecology and taxonomy of modern ostracods in the Japan Sea and Okhotsk Sea (with **Dr. Takahiro Kamiya**)
- Palaeoecology and taxonomy of cryophilic ostracods in Miocene to Pleistocene from central and northern Japan.

Robin James Smith

The first part of my Royal Society/JSPS Fellowship hosted at Kanazawa University, Japan, was completed in March 2002. I returned to the UK and started the second stage at Greenwich University and from April 2003 I spent the final year of the fellowship at the Natural History Museum, London. During the fellowship, I had the opportunity to work with many ostracod and crustacean workers including **Takahiro Kamiya** (University of Kanazawa, Japan), **Shin-Ichi Hiruta** (Hokkaido University of Education at Kushiro, Japan), **Akira Tsukagoshi** (Shizuoka University, Japan), **David Horne** (Natural History Museum and University of London, UK), **Renate Matzke-Karasz** (Ludwig-Maximilian University Muenchen, Germany), **Koen Martens** (Royal Belgian Institute of Natural Sciences), **John Whittaker** (Natural History Museum, UK), and **Geoff Boxshall** (Natural History Museum, UK). My work included study of the ontogeny of ostracods and the taxonomy of Recent nonmarine ostracods.

In May 2004, I returned to Kanazawa University to continue working with **Takahiro Kamiya** as a COE Postdoctoral Researcher, focusing on the Recent nonmarine ostracod fauna of Japan, particularly from springs. In December 2004 I started work at the Lake Biwa Museum in Shiga Prefecture as a scientific researcher. I am currently continuing my work on the ontogeny and evolution of ostracods and the taxonomy, ecology, and biogeography of nonmarine ostracods.

Moriaki Yasuhara

I will visit Tom Cronin, USGS, to study deep-sea ostracodes for two years as a JSPS Fellow.

LUXEMBOURG

Correspondent: **Karel Wouters**

Claude Meisch

He continues his work on the taxonomy and distribution of freshwater ostracods, mainly in Europe. As an associate partner of the Royal Belgian Institute of Natural Sciences, he is involved in the Sexasex project funded by the EU for four years (SexAsex: a case study on interactions between sexual and asexual reproduction; coordinator **Koen Martens**).

MEXICO

Ana Luisa Carreno

- Recent marine ostracodes from equatorial offshore Brazil.
- Cretaceous ostracodes from the Reconcavo Basin, Brazil (with **Joao Carlos Coimbra** Universidad Federal do Rio Grande do Sul).
- Continuation of long-term research on Baja California Tertiary calcareous microfauna and microflora (Ostracoda, Foraminifera, calcareous nannoplankton).
- Paleoenvironmental reconstruction of Mexican lacustrine Quaternary lakes based on ostracode paleoecology and trace shell chemistry (with **Manuel R. Palacios-Fest**, Terra Nostra Earth Science Research).

Teaching activities: **Geise de Santana dos Anjos**, 2004, *Biostratigrafia do Neogeno da Plataforma de Florianopolis com base no estudo de Foraminiferos planctonicos*. M.S. thesis, Programa de Pos-Graduacao em Geociencias, Area de Estratigrafia, Universidad Federal do Rio Grande do Sul, Brasil.

Ma. Luisa Machain-Castillo, F. Raul Gio-Argaez

Continue working on Holocene ostracodes of the Mexican seas, especially in the diversity and distribution patterns of the continental shelf and coastal areas of the Gulf of Mexico.

MOROCCO

Correspondent: **Ratiba Bekkali**

Driss Nachite, Ratiba Bekkali

Working on:

- Neogene lacustrine Ostracoda of Granada Basin (south of Spain)

- Saiss Basin (north of Morocco), and limno-brackish Ostracoda from the N.O. of Morocco.
- Holocene Ostracoda of the Alboran Sea with **A. El Hmaidi** from Moulay Ismail University (Meknes, Morocco).

Rossi, Abdelhamid

He is working on Cretaceous Ostracoda from Morocco.

NIGERIA

Nkechi E. Onyedineke

Ongoing research includes investigations of the taxonomy, distribution, and ecology of Recent Nigerian Ostracoda.

NEW ZEALAND

Stephen Eagar

I am working on a paper on ostracods from Tuvalu (formerly the Ellice Islands). I collected samples from Funafuti and have access to further materials from the other atolls. I am working on ostracods from the Marshall Islands, Tahiti, and Samoa.

I am expecting a checklist of the ostracods of New Zealand to be published soon. This was part of an attempt to document all species known at the millennium—*Species 2000: Phylum Arthropoda, Crustacea, Ostracoda*. I expect a small paper on coastal ostracods from New Zealand to be published in late 2004 or early 2005. I have completed and submitted a manuscript on *Pontocypris* living in the head of a polychaete. I am finishing a paper on ostracods from French Polynesia.

Thomas Jellinek

Of the Senckenberg Museum, will be working in Christchurch for the next three years. Thomas is a Senior Research Fellow in Gateway Antarctica at the University of Canterbury and will take the time to complete work on collections of living deep-sea ostracods made jointly with **Kerry Swanson** in the Southern Ocean and Angola Basin especially.

Together with **Ilaria Mazzini**, they are completing a paper on *Pseudobosquetina* and cosmopolitanism and it is hoped to have this submitted for publication in March. Work on *Echinocythereis* by Kerry and Thomas is well advanced and once that manuscript is completed,

they will begin work on a phylogenetically interesting relationship between *Zabythocypris* found off SE Australia and in the Angola Basin. Ilaria has begun work on a high resolution core taken in the eastern Tasman Sea during the 1998 cruise of 'Sonne'; the isotopic record in this core has been described as 'one of the best' for the region and linking those data to equivalent results for Ostracoda has enormous promise.

Francie Gaiger has won a prestigious Marsden Scholarship that will fund her MSc thesis project looking at Plio-Pleistocene extinctions in the deep-sea ostracod fauna east of New Zealand (a joint project with **Bruce Hayward**, Geomarine Ltd.)

POLAND

Correspondent: Janina Szczechura

Irmina Krzyminska

She continues her studies on marine and freshwater Recent and Quaternary ostracodes from the Baltic Sea as well as from lakes of Poland.

Agnieszka Mackiewicz

She is a PhD student working on Recent ostracodes from Hornsund Fjord (Spitsbergen). The main aim of her study is to correlate the ostracode communities with their environmental conditions.

Tadeusz Namiotko

He has taken on some of Prof. **T. Sywula's** duties at the University. He is working on taxonomy and ecology of Recent and Quaternary non-marine ostracodes from Europe.

He is currently working on the following projects:

- Systematic revision of the genus *Cryptocandona* group *eremite* (together with other ostracodologists).
- Origin and evolution of a new anchialine stygobitic species of *Microceratina* (together with other ostracodologists).
- Quaternary nonmarine ostracodes from Poland.

Ewa Olempska

She is involved with several projects:

- Devonian ostracodes from the Holy Cross Mountains.
- Devonian ostracodes from Devil Gate (Nevada, USA) (together with **J.-C. Casier**).
- Late Cambrian phosphatocopids from north Poland.
- Carboniferous ostracodes from China.
- Devonian myodocopids from Morocco.
- Recent ostracodes from Antarctica.

Jolanta Smolen

She published a paper concerning the Jurassic/Cretaceous boundary, based on the ostracode genus *Cypridea*, in central and southeast Poland. She intends to revise the biostratigraphic significance of this group of ostracodes, working on the unknown Tithonian deposits from the southeast, below the Carpathians, and northwest Poland.

Janina Szczechura

She works on the middle Miocene ostracodes from the western Carpathians, as well as from the Carpathian Foredeep. She collected large ostracode assemblages from the Lower Badenian of the Carpathian Foredeep, including taxa so far unknown from the central Paratethys. In 2005, she published a large paper with descriptions of taxa.

PORTUGAL

Correspondent: Maria Cristina Cabral

Maria Cristina Cabral

- Pleistocene nonmarine ostracodes from Algarve, south Portugal—taxonomy, palaeogeography and palaeoecology (with **J.P. Colin** and **P. Carbonel**).
- Holocene ostracodes from coastal lagoons and estuaries in SW Portugal (Santo Andre and Melides lagoons, Mira estuary)—chronological record of four different cores.
- Cretaceous Aptian-Cenomanian) marine and nonmarine ostracodes from Lisbon region, Portugal—taxonomy, biostratigraphy and palaeoecology.
- Marine Toarcian ostracodes from Peniche, Rabacal and Boca da Mata, Lusitanian Basin, Portugal—master's thesis supervision, in collaboration with **Luis Duarte**, University of Coimbra.
- Callovian and Oxfordian ostracodes from the Lusitanian Basin, Portugal.

RUSSIA

Anna Abushik

In 2003 and 2004, she studied the stratigraphical distribution of Silurian and lower Devonian ostracods of the Russian Arctic.

N.N. Kolpenskaya

I am studying Jurassic Ostracoda of the Russian Plate.

Natal'ya Kupriyanova

During 2002-2003, I investigated:

- Pliocene-Quaternary deep-sea Ostracoda from the Mendeleev Ridge (Arctic Ocean).
- Triassic marine ostracods from Franz Josef Land.
- Triassic, Jurassic, and Cretaceous marine ostracods from the Barents Sea shelf.
- Stratigraphy of Triassic to early Cretaceous deposits of the Barents Sea based on ostracods.

Mila Mel'nikova

During 2003, I worked on a comparative analysis of the taxonomic composition of ostracods from Ordovician deposits from Leningrad region, Estonia, Latvia, Lithuania, Sweden, Poland, Germany, Great Britain, and Ibero-Armorica.

In 2004, I studied Ordovician ostracods from the section "Mishina Gora" (Russia, Pskov region). The analysis of the ostracod assemblages from the deposits from the Kund/Azeri boundary and the Lasnamyagi-Yukhakuskii interval of this section allowed me to conclude that the boundary between Kundaskii and Azeriskii horizons lies lower than was suggested earlier by B.P. Asatkin (1938). These ostracod data correlate with the conodont data.

Irina Nikolaeva

She continues her research of the Paleogenic Ostracoda. In particular, the evolution of different groups of the Superfamily Trachyleberidacea, zonal subdivision of the Paleogene using ostracods, and the paleoecology of the Oligocene ostracods of the eastern Paratethys.

In 2004, the database on the ostracod zonal species assemblages of the Paleogenic deposits of the European South of Russia was completed. The database contains information about 86 ostracod species, constituting 12 zones and 6 subzones. It is possible to enter the species name and to obtain the complete information about its generic affiliation, the synonym list, its position in the zonal assemblage and also the information about the zone itself, including its correlation with zones established using other groups of fossils.

Eugenii Schornikov

Continues research of ecology, morphology, and taxonomy of ostracods in the following topics:

- Morphology and taxonomy of Arctic and cold-water ostracods from the north Pacific.
- Freshwater ostracods of the Far East and the Arctic.
- Ostracods as indicators of environments and dynamics of water ecosystems.
- Ostracoda of the Arctic Sea and the Sea of Japan.

Anna Stepanova

Main activities for 2003-2004 included:

- Working in the frame of the Russian-German cooperative project “*Laptev Sea system*” and Fellowship 2003 program of the Otto Schmidt Laboratory for Polar and Marine research in St. Petersburg (Russia).
- Studying late Pleistocene-Holocene and modern ostracods of the Laptev Sea.
- Holocene and modern ostracods of the eastern Kara Sea.
- Completing master’s thesis, devoted to the Holocene environment of the eastern Laptev Sea shelf (Arctic Siberia) as reflected in ostracod assemblages and revision of the genus *Cytheropteron* from the late Pleistocene-Holocene and surface sediments of the Laptev Sea [the diploma materials were published in 2003; the rest will be published in 2004].
- Work on a PhD thesis entitled *Pleistocene-Holocene and Recent Ostracoda of the Laptev Sea and their importance for paleoenvironmental reconstructions*. The thesis represents the first detailed scrutiny of the Late Pleistocene-Holocene and Recent ostracods of the studied area. In total, 45 species belonging to 22 genera and 13 families were identified; one species was described as new. For the first time, three ecologically different assemblages linked to three areas of the sea: western central, eastern, and southern, were distinguished among Recent Ostracoda. Fossil Ostracoda from AMS ¹⁴C-dated sediment cores from the eastern shelf area (with lower dates of 11.3-11.1 ka) and the western continental slope (with lower dates of 15.8 ka) were also studied for the first time. The analysis of the fossil ostracod assemblages allowed me to supplement previously obtained data on the chronology of the postglacial transgression with paleoenvironmental reconstructions.
- Work on the Kara Sea material was continued, and I hope to submit a paper on the distribution of recent ostracods on the eastern Kara Sea shelf in 2005. In 2005, I plan to translate my PhD thesis into English and publish it as a monograph in the supplementary volume of the *Russian Paleontological Journal*.

Ekaterina Tesakova

She is responsible for the ostracodologist session in the 13th All-Russian Micropaleontological Meeting, which will be held in November 2005. Her interests include the ecology of ostracods, paleoenvironmental reconstructions, and paleogeography.

In 2004, she made a paleobiogeographical zonation of the Kimmeridgian Seas of the sub-latitudinal straits in the northern Ural region.

Ostracods from Tithonian and Berriasian of the Eastern Crimea proved to be of great importance for biostratigraphy and paleoecology. Studies of these ostracods allowed us to conclude that the sediment section accumulated in the upper part of the continental slope and the site was subjected to periodical slides, occurring due to storms or, probably, due to earthquakes.

Quantitative and qualitative analysis of the distribution of ostracods in the Kimmeridgian and lower Volgian deposits of the section “Goroditshi” (Volga River region, Russia) and allowed periodical changes of bottom water temperature be established. Comparison of obtained ostracod data with the analogous data on ammonites allowed these warming and cooling to be correlated

with the changes in sea water level. It was possible to establish that the stratification was estuarine-like in this part of the basin.

Maria Zenina

Is a post-graduate student studying ostracods as indicators of environments and dynamics of water ecosystems using ostracods from the Amursky Bay (Peter the Great Bay, Sea of Japan) as an example.

SENEGAL

Correspondent: Raphael Sarr

Raphael Sarr

- Colonization by microfaunas (foraminifers, Ostracoda) following the water filling of the Maka Diama dam (Senegal River). Joint project with the Universite Claude Bernard of Lyon (France) and the University of Montreal (Canada).
- Study of the recent evolution (Quaternary to Recent) of lagoons and estuaries of the northern Senegal seashore using microfaunas (ostracodes, foraminifers) and microfloras (diatoms).

SERBIA AND MONTENEGRO

Correspondent: Ljupko Rundic

Tamara Karan-Znidarsic

Since 2002, she has focused on taxonomy, ecology, and distribution of recent nonmarine ostracodes. She worked her master's thesis on ostracodes in the waters of a part of the Pannonian Plain and investigated other regions of the country.

Nadezda Krstic

She published many papers during 2002-2004, mainly paleogeographic and paleoecologic papers written on the basis of ostracode research. She worked localities ranging from the Balkan Peninsula to the entire southern part and a portion of middle Europe. She published five ostracode papers.

Ljupko Rundic

I continue my research on Tertiary ostracodes of Serbia, Bosnia, and the other part of Paratethys. During the last year, I worked in collaboration with **N. Trofimovich** (Lvov, Ukraine) and observed Paleogene ostracod assemblages from the Carpathian Mountains, Ukraine. Recently, I worked on problems of geoheritage and the protection of main stratigraphic

and paleontological sites in Serbia. I am trying to find legislative solutions for many of the problems of environmental protection. At this moment, I am the President of the Organizing Committee of the 14th Congress of Geologists of Serbia and Montenegro, which will be held in Novi Sad, Serbia on October 18-20, 2005. Since last April, I am the President of the Serbian Geological Society, a term of two years (2004-2006). I am busy, so published only a few ostracodes during the past period.

SPAIN

Francesc Mezquita

At present, I continue working on ecology and palaeoecology of nonmarine ostracodes, mainly from the Iberian Peninsula and the Balearic Islands.

Ongoing research projects include:

- Biogeography of ostracodes from the Balearic Islands (with **J.L. Pretus**, Univ. Barcelona and Ph.D. student **Liia Zamora**, Univ. Valencia).
- Ecology of ostracodes and macroinvertebrates from seasonal ponds of Natural Park Albufera of Valencia and from River Palencia, Spain (with **Juan Rueda, L., Zamora, C. Lopez**).
- Ostracod palaeolimnology of Lake Albufera (with **M.R. Miracle** and PhD student **Javi Marco**, Univ. Valencia, assisted by **J. Holmes** for ostracod geochemistry).
- Ecology (with **S. Altinsacli**) and palaeoecology (with **J. Reed**, Univ. Hull, UK) of Turkish ostracods.
- Ostracod palaeolimnology of Lake Archidona, Spain (with **R. Julia**, CSIC-Barcelona).
- Evolutionary ecology of reproductive modes in *Eucypris virens* (SexAsex project, coordinated by **Koen Martens**, KBIN-Belgium).
- Ecology and geochemistry of *Cyprideis torosa* (with **Emi Ito**, Minnesota, and PhD student **E. Carbonell**).

Julio Rodriguez-Lazaro

Activities include:

- Chairman of the Fifth European Ostracodologists' Meeting (EOM-V), *Building Bridges with Ostracods*, held in Cuenca, Spain in July 2003.
- Director of a PhD entitled "*Pliocene to Recent Ostracoda of the western Ebro Basin: Palaeoecology and Geochemistry*". Presented by **Maite Martin-Rubio** in October 2003.
- Responsible for a new research project about the palaeoenvironmental evolution of the southern Bay of Biscay during the Quaternary, based on foraminifers, ostracods, and micro mammals. 2004-2007, with **Maite Martin-Rubio** and others.
- Geochemistry of biogenic lacustrine carbonates. Monitoring of culture samples of ostracods, charophytes, and gastropods. In collaboration with **Maite Martin-Rubio** and **Pere Anadon** and team (Barcelona).

In preparation:

- Chapter of Ostracoda in a textbook of Palaeontology, edited by the Spanish Palaeontological Society. In collaboration with **Luis Sanchez de Posada** (Oviedo) and **Rodolfo Gozalo** (Valencia).

SWITZERLAND

Daniel Whittle

I am a student at the University of Geneva, starting work on stable isotope geochemistry using Ostracoda. I am working on a core made up mostly of Recent calcareous sediments extracted from a karstic lake of Switzerland.

TUNISIA

Correspondent: Rakia Benzarti

Mohamed Ben Youssef

He is supervising two PhD theses (**Ahlem Amri** and **Mouna Frigui**) to identify ostracode associations in Cretaceous and lower Messinian series and to establish a repartition chart of Cretaceous ostracods.

Moncef Mzoughi

Working on biostratigraphical studies of some offshore wells in the Gulf of Hammamet (northeastern Tunisia). These studies deal with Albian and Cenomanian series where ostracodes are characteristic and allow an accurate biostratigraphy of these wells.

Rakia Benzarti

She is working on biostratigraphical studies of some onshore wells in central-northern Tunisia and some sections outcropping in southern Tunisia, notably Gasfsa and Chott areas. These studies deal with Aptian to Turonian and Palaeocene-Eocene ostracods, often in association with foraminifers.

Ihsen Zghal

I am working on recent ostracods of Sfax coast (north southern Tunisia) and the impact of pollution on them (changes in mineralization and ornamentation). I am supervising a PhD thesis on Aptian and Albian ostracods of Halra Jebel (Kasserine area, central Tunisia).

TURKEY

Okan Kulkoyluoglu

I have been explaining to people how important it is to work on ostracods. I focus on taxonomy, systematics, and ecology of ostracods and their usage when aspects of water quality are involved. Ostracods can be used as an indicator species in various water bodies, so this includes understanding more about their ecological preferences and tolerances to ecological variables. My students and I are using different ideas and statistical methods to reach the best results to show the possible relationships between ostracods and water ecology. In this case, we would like to see any relationships with ostracods and their spatiotemporal patterns. Recently, we have been working on a multivariate method that can compile all of this information to explain what ostracods prefer. We believe that, for our purposes, at least monthly sampling should be done over at least two or more years of a long-term study.

Mustafa Kylyc

After graduating from the Department of Biology in the Faculty of Science at Istanbul University in 1989, I began work on my master's and PhD degrees in the same university. During my work, I dealt with the taxonomy of marine and brackish ostracods in the Black Sea coast of Turkey. In 1997, I completed my PhD work and earned a doctorate degree in 1997. The dissertation was *Recent Ostracoda (Crustacean) fauna of the Black Sea coasts of Turkey*. Part of my work has been published. I continue working on ostracodes, mostly involved in different projects. Since the 4th European Ostracodologists Meeting in July 1999 in Adana, Turkey, I have not been able to attend any other meetings. I would like to cooperate with those who have similar research interests.

Dr. Dincer Gulen

Our mentor on ostracodes has retired, although he continues to teach some graduate courses.

Atike Nazik

I am working on:

- Holocene ostracodes from northern Aegean Sea, Marmara Sea, and the western and middle parts of the Black Sea.
- Neogene ostracodes from Arguvan-Parcikan (Malatya-eastern Anatolia).

UNITED KINGDOM

Ian Boomer

I am continuing to work on aspects of late Quaternary ostracods in the Aral, Caspian, and Black Sea systems, together with colleagues in a number of countries including France (**von Grafenstein, Guichard**), Germany (**Arz, Lamy, Bahr**), and Romania (**Stoica, Opreanu**). Black Sea work is supported by invitation to join EU ASSEMBLAGE cruise on *Marion Dufresne* in May 2004.

Other ostracod-based research projects include:

- Size variation in *Cyprideis torosa* (with **Peter Franzel**).
- Ostracods as pollution indicators in urban rivers.
- Ostracods from springs and seepages in NW Scotland (with **David Horne** and **Robin Smith**).
- Amino-acid racemization of single ostracod valves (with colleagues at University of York).

Michael Frogley

I continue to work on the Quaternary Balkan material from Lake Pamvotis, Ioannina, Greece. I have recently begun investigating Late Holocene lake records from the Cuzco region of Peru in collaboration with **Alex Chepstow-Lusty** (Universite de Montpellier II), **Melanie Leng** (NERC Isotope Geosciences Lab, UK), **Brian Bauer** (University of Illinois in Chicago), **Karin Boessenkool** (University of Cardiff), and others.

David J. Horne

Since being made redundant by the University of Greenwich in 2003, I have taken up a temporary post in the Geography Department at Queen Mary, University of London, and I have become a Scientific Associate in the Department of Zoology at the Natural History Museum in London.

I continue to be active in research, pursuing my interests in living and fossil marine and nonmarine ostracods, with particular attention to British Quaternary (with **John Whittaker** at the Natural History Museum) and Purbeck-Wealden faunas, as well as ostracod and crustacean phylogeny (in collaboration with **Robin Smith** and **Taka Kamiya** in Japan; **Koen Martens** and **Isa Schoen** in Belgium).

I am part of the 4-year European Union FP6 Marie Curie Research and Training Network: *From Sex to Asex: a case study on interactions between sexual and asexual reproduction*, starting November 2004 (coordinated by **Koen Martens** in Brussels), being affiliated to **Roger Butlin's** group at Sheffield University, UK.

Kevin Keatings

I am working on the paleolimnology of Lake Qarun in the Faiyum region of Egypt.

Alan Lord

Chair, IRGO 2001-2005

Secretary, Ostracod Group, The Micropalaeontological Society

From January 2005, I have a half-time position in the Forschungsinstitut Senckenberg, Frankfurt-am-Main and plan to promote fossil ostracod work to complement **Thomas Jellinek's** fine work with **Kerry Swanson** on Recent ostracods.

C. Giles Miller

I have been reorganizing the Natural History Museum ostracod collections recently to make way for recent donations such as **Eric Robinson's** collection.

Information about the NHM ostracod collections can be found at <http://www.nhm.ac.uk/palaeontology/micro/collections/ostracod/index.html>. We are working toward a searchable web catalogue of the post-Palaeozoic collections in the Palaeontology Department here. It is almost finished now, so we are looking to incorporate data about the recent material currently held in the Zoology Department and the Palaeozoic collections. The web site will go live in 2006, but some information, such as a list of over 600 relevant type and figured collections, is available at the web site given above.

David Siveter

Research is focused on studies of Palaeozoic ostracods and related arthropods, mainly from Europe, North America, China, and the former Soviet Union. Much of his recent work has concentrated on early (Ordovician and Silurian) myodocopes, and the investigation of Cambrian (Chengjiang, China and Comley, UK) and Silurian (Herefordshire) Konservat-lagerstätten that have yielded ostracods and related Crustaceans.

Ian J. Slipper

I have taken on a new position at the University of Greenwich where I now have responsibility for running the electron microscopy facility for the School of Science—that is, three scanning electron microscopes, one transmission electron microscope, and the x-ray diffraction and x-ray fluorescence laboratories. I continue in the position of Chair of the Ostracod Group of The Micropalaeontological Society and will be taking over production of the Newsletter of The Micropalaeontological Society from November 2004.

My ostracod work lately has been done in my spare time, and my main project underway at present is "*A revision of the collection of Jones and Jones & Hinde in the Natural History Museum, London*". Related to this work is a more in-depth study of the micropalaeontology of the Chalk Detritus of Charing and the life of Mr. William Harris. I am currently working on the Ostracoda of the marine Lower Cretaceous for the second edition of the *Stratigraphical Atlas of British Ostracoda*. The *Upper Cretaceous* is complete and with the editors.

Ian Wilkinson

- I have had little opportunity to work on ostracods during the last few years; much of the time has been devoted to foraminiferal biostratigraphy from the Mesozoic of Britain and the Near East, together with paper pushing, quality assurance, and the like.
- Analysis of Carboniferous faunas has been a diversion from my normal Mesozoic-Holocene work and with **Philip Wilby** (British Geological Survey) and **Mark Williams** (British Antarctic Survey) has completed work on entomozoaceans associated with a shark carcass. We reported on this at the European Ostracodologists' Meeting in Spain.
- Mark Williams and I, together with a small team from the BGS, have also been working on ostracods from the Tournasian of Scotland, relating them to palaeoecology.
- I have also collaborated with **Serozh Z. Gulakyan** (Seismogeochemical and Analytical Centre of the National Survey for Seismic Protection of the Republic of Armenia, Acharyan 54a, Yerevan, 375040, Armenia) and **Bubikyan, S.A.** (Geological Institute, Academy of Science of the Republic of Armenia, Yerevan) on the Holocene ostracods of Lake Sevan, Armenia. Serozh Gulakyan and I have continued this work into the Recent.
- I have also continued a little work in the Cretaceous, notably the Aptian and Albian, and the Portlandian.

UNITED STATES

Paula Allen

I am finishing my PhD on landscape influences on lake chemistry and ostracode community structure in southeastern Wisconsin lakes.

Mark Angelos

I am currently working on a survey of modern non-marine ostracods from California. This multi-year project is designed to: (1) assemble a voucher collection of ostracods at the Natural History Museum of Los Angeles County; (2) investigate the factors influencing ostracod community composition (.e.g., temperature regimes, flooding regimes, substrate); and (3) investigate the habitat range of individual ostracod species (e.g., salinity and alkalinity limits).

Elisabeth Brouwers

Most of my days are spent in a science management role, overseeing five large and diverse biological research centers of the USGS—located in Louisiana, North Dakota, Missouri, Colorado, and Montana. I am reducing my reprint and book library and determining those critical projects that I plan to write up over the next few years. I am focusing on those geographic regions that are difficult to get into or those collections that are essentially not reproduceable.

Anne Cohen

2003—I am grateful to **Alison Smith** and **Lisa Park** for inviting me to take part in the Paleontological Society Short Course at Seattle in 2003. How wonderful to see many of my ostracode friends again!

2004—I am grateful to **Todd Oakley** and his student **Kevin Bilyk**, who are making a web site of my partially illustrated (carapaces and mandibles) tabular key to both subclasses of Ostracoda and all families of Myodocopa. I plan to provide the remaining illustrations this year. I am working on a Cohen and Morin paper providing names, diagnoses, and morphological illustrations (including SEMs) for several new genera of Cypridinidae endangered in the cladistic analysis of Cohen and Morin, 2003, I am working with **Elizabeth Torres** on a cladistic analysis of the Cypridinidae, combining morphological and DNA data. I hope to finish a Cohen and Morin description of new genera and species of bioluminescent signaling ostracodes.

Thomas M. Cronin

- My work is focused on the Quaternary of Chesapeake Bay, Florida, Biscayne Bay, and Tampa Bay coastal, estuarine, and freshwater ostracodes, as well as broader ecosystem changes and climate impacts.
- I went on the IODP ACEX cruise to the Arctic Ocean during August-September 2004; ostracodes limited to the Quaternary.
- I am working with **Gary Dwyer** (Duke University) and **Harry Dowsett** (USGS) on PRISM (mid Pliocene) global climate, specifically on Mg/Ca ratios in deep-sea *Krithe*. I am also working on a new project on patterns and impacts of abrupt climate change on eastern United States, including the use of ostracodes.
- I will have a post-doctoral student from Japan in the fall, **Moriaki Yasuhara**, who will be working on deep-sea ostracode biodiversity.
- I am also doing work on foraminifers, sea level rise, and stable isotopes in estuaries.
- I have been conducting some studies on ostracodes in an ancient Late Pleistocene lake in Tampa Bay, together with **Ben Flower** and **Dave Hastings**, who have been using ostracodes in studies of Mg/Ca and Sr/Ca in the chemistry of lake water.

Ken Finger

Since joining the University of California Museum of Paleontology in 2002 to curate its microfossil collection, I have been working with **Dawn Peterson** on microfaunas from (1) the Late Miocene-Early Pliocene central coast of Chile; (2) Late Pleistocene terraces on the Galapagos Islands; (3) Lake Merritt, a polluted tidal lagoon in the heart of Oakland, California; and (4) an Eocene section that was briefly exposed in Fairfield, California.

Roger L. Kaesler

- Many Treatise volumes will be coming out.
- **Julie Retrum** has completed a magisterial degree on the paleoecology and systematics of species of *Carbonita* from the Permian of the Mid-continent. Julie is just beginning doctoral work on some Pleistocene freshwater ostracodes.

- **Jennifer Castle** has completed a magisterial degree in which she has done a baseline study of freshwater ostracodes from a wetland that is endangered by encroaching urbanization.

Dawn E. Peterson

I am working with **Dr. Ken Finger** at the University of California Museum of Paleontology, Berkeley, California. Our current research focuses on:

- Taxonomy, stratigraphy, and paleoecology of Tortonian to Lower Pliocene ostracodes and foraminifers from coastal deposits in central and south-central Chile.
- Deep water lower middle Eocene ostracodes and foraminifers from the Capay Formation of central California.
- Research on responses of ostracodes and foraminifers to pollution, fluctuating salinities, and seasonal anoxia in the urban tidal basin, Lake Merritt, Oakland, California.
- We are establishing a database for all holotypes in the UCMP collections and taking photomicrographs of them for a new UCMP website.
- I have recently been appointed Research Associate at the University of California Museum of Paleontology, Berkeley, under **Ken Finger**.

Frederick M. Swain

Recent work has been on environmental aspects of classic Silurian Ostracoda of the central Appalachian region, USA.

For additional information and downloadable PDF documents, please go to <http://www.geo.umn.edu/people/profs/SWAIN.html>.

YEMEN

Munif A. Owen

- I recently completed my PhD on marine Ostracoda. The thesis title is "*The study of Ostracoda in Recent deposits of south-west Yemen*".
- I am interested in marine Ostracoda of Soqatra Island and Al-Hodaida coast.
- I am interested in the evidence of the changing of coastlines in Aden city during the Holocene. Aden city is a Free Zone, and it is important to study the influence of the sea on the city.

YUGOSLAVIA

Tamara Karan Znidarsic

Some time ago I became interested in recent nonmarine Ostracoda. I am working on my M.S. thesis about ostracods in the waters of part of the Pannonian Plain. So far, my research has focused on taxonomy, ecology, and distribution.

REQUESTS

Jean-Paul Colin

The Reserve Naturelle Géologique de Saucats-La Brede (Aquitanian-Burdigalian stratotypes) is setting up a Miocene library. If you have spare copies of publications dealing with Miocene stratigraphy and/or paleontology, please send them to Y. Gilly, Reserve Naturelle Géologique de Saucats-La Brede, 17, Chemin de l'Eglise, 33650 Saucats, France.

Thierry Hoibian

Thank you for the help and publications of some "ostracodologists". I am looking for papers on ostracods of Indo-Pacific islands concerning mainly systematics and ecology. Please contact me by email at hoibian@univ-nc.nc.

Tamara Karan-Znidarsic

I would appreciate receiving reprints from colleagues on taxonomy, ecology, and distribution of recent nonmarine ostracodes and ostracodes from the Pannonian Plain.

Eugen K. Kempf

For inclusion in the "*Kempf Database Ostracoda*", it would be of great help if ostracodologists would send copies of their papers soon after publication.

Okan Kulkoyluoglu

I think we need to work more on the habitat preferences of ostracods in relation to their ecology, evolution, and usage in different fields of science.

Alan Lord

Colleagues are requested to send reprints for the Senckenberg Ostracod Section Library, via A.R. Lord, Forschungsinstitut, Senckenberg, Senckenberganlage 25, D-60325 Frankfurt-am-Main, Germany. Thank you.

Friedrich W. Luppold

For many years, **Henri Oertli** has reported on post-Paleozoic ostracod papers for “*Zentralblatt für Geologie und Paläontologie*”. I am his successor. I request authors to please send reprints for the Jurassic and Cretaceous.

Wolfgang Mette

I would like to know if there is anyone currently working on the Jurassic of Iran or is interested in cooperating in research on the Jurassic of Iran.

John Neil

Because of my relative isolation from other workers, I would appreciate reprints and correspondence (e-mail or snail mail) from anyone working with Palaeogene and Neogene marine, shallow-water faunas and would respond in kind.

REPORTS

Henning Uffendorde

Is working voluntarily at the Museum of the Geoscience Center (GZG Univ. Goettingen), where he has nearly finished saving, re-identifying, and cataloguing the old Lienenklaus ostracode collections, published in 1894 (monograph, NW German Tertiary), 1896 (Middle Oligocene, Bern, Switzerland), 1897 (Miocene, Ortenburg, Bavaria), and 1900 (North German Tertiary). The results of this work are documented temporarily in the form of an Excel spreadsheet catalogue, as the Museum has not yet decided on the acquisition of a new database system. Work on the ostracodes from the publication of Lienenklaus (1905, Oligo-/Miocene of the Mainz Basin) is in progress.

Eugen Kempf

A new Index of the “Kempf Database Ostracoda” is available on CD-ROM. This new Index D, entitled “*Recent Marine Ostracoda of the World*” forms part 16 of the series “*Index and Bibliography of Marine Ostracoda*” and is different from all the other index parts published to date. It represents the first work of reference from “Level 2” of the “*Kempf Database Ostracoda*”, dealing with the stratigraphical occurrence of Ostracoda within the history of earth, inclusive of the Recent. Index D deals only with recent marine Ostracoda that have been described either as living or dead genera or subgenera and species or subspecies from all parts of the world. The index links to first descriptions and also to subsequent descriptions or mentions, leading to the exact page of the relevant publication. More than 20,000 data sets are covered by Index D. For those working on Recent and/or Cenozoic marine Ostracoda, Index D will be a time-saver and quality-enhancing benefit. In summary, Index D depends on the previously published “Level 1” for the names of

genera and species as well as the literature citations coded by number in the Index B series or in the bibliographies.

ANNOUNCEMENTS

Brita Bookhagen

(Diploma student) has started to investigate the ostracod assemblages of short cores and surface mud samples from Lake Donggi Cona on the NE Tibetan Plateau in summer 2004 to reconstruct Recent climate change in the area.

Ludwig Buckl (Biologist)

Has finished his Diploma thesis on *Die Ostracodenfauna des nordostlichen Tibetplateaus—ökologische und klimatische Einflüsse* (The ostracod fauna from the NE Tibetan Plateau: ecological and climatic influences) in October 2004. About 30 taxa were identified following an extensive sampling of surface mud samples from about 100 water bodies in the study area. *In-situ* measurements of limnological parameters (pH, electrical conductivity, water depth, dissolved oxygen content, etc.) were conducted.

Jean-Paul Colin

If you come to France, you are all welcome to visit the Réserve Naturelle Géologique de Saucats-La Brede, located about 20 km south of Bordeaux, where you will be able to see the stratotypic sections of the Miocene stages of the Aquitanian and Burdigalian and visit the Museum, which displays a rich collection of fossils from these famous localities. For a group-guided visit, please call or send e-mail.

Réserve Naturelle Géologique de Saucats-La Brede

17, Chemin de l'Eglise

33650 Saucats, France

Tel/Fax 33(0) 5 56 72 27 98

saucats.brede@espaces-naturels.fr

www.rngeologique-saucatslabrede.reserves-naturelles.org

Jean-Paul Colin

The journal "*Revue de Micropaleontologie*" publishes papers dedicated to all aspects of Micropaleontology (including modern representatives of microfossils). Manuscripts are peer reviewed by at least two specialists in the field. Following acceptance, papers are usually published in a few months both on the internet (Science Direct) and on paper. Four issues are published annually. 25 reprints are provided to authors free of charge. For further information, contact danelian@ccr.jussieu.fr.

Ashraf Elewa

Elewa, A.M.T., editor, 2004, *Morphometrics—applications in biology and paleontology*: Springer-Verlag Publishers, Heidelberg, Germany.

Information about this book can be accessed through the following shortcut: <http://www.springeronline.com/sgw/cda/frontpage/0,10735,5-0-22-29412423-00.html>

David J. Horne

I have been involved in two biodiversity projects, results of which are now available on web sites:

- Fauna Europaea, which includes living nonmarine ostracods—<http://www.faunaeur.org>
- The European Register of Marine Species (ERMS), which includes living marine and brackish water ostracods—<http://www.marbef.org/data/erms.php>

Corrections and updates are in progress for both of these. Feedback would be welcome.

Roger Kaesler

I teach an introductory course entitled *Prehistoric Life* (to about 100 students) and two courses for advanced geology students: *Paleontology* (35 students) and *Paleontology Laboratory* (20 students)

Michael Kramer

(Diploma student) finished his work on the ostracod record of a Holocene lake sediment core from the NE Tibetan Plateau in summer 2004. He is writing up the results.

Alan Lord

You may recall that an award was made at ISO14, Shizuoka, for the best student oral presentation. The award was funded by the editors of the *Stereo-Atlas of Ostracod Shells* and named in honor of Professor Peter Sylvester-Bradley, the founder of the journal. The first recipient was Dr. **Gengo Tanaka** (then of Shizuoka University, and currently with Professor **David Siveter** of Leicester University).

I am delighted to announce that Professor **Noriyuki Ikeya** has made a generous donation to IRGO to support the future of the Sylvester-Bradley Award. Thus, we now hope to be able to make two awards at each ISO, one for the best student oral presentation and one for the best student poster presentation. IRGO officers have not yet discussed the details, but we certainly plan to make two awards at ISO15 in Berlin in September.

We are most grateful to Nori Ikeya for his generous support and faith in the future of our science.

Hirokazu Ozawa

The permanent exhibition in the National Science Museum of Japan, Tokyo, was renovated and extended in November 2004. In this renovation, the micropalaeontological display has been newly established by **Dr. Yoshihiro Tanimura** in this permanent exhibition. This may well be the

largest display on microfossils in the world. Several specimens and photographs of Palaeozoic, Cenozoic, and modern ostracods, provided by **Gengo Tanaka**, **Tomomi Sato**, and **Hirokazu Ozawa**, are displayed. If you have an opportunity to visit Tokyo, please look at this display. [http://shinkan.kahaku.go.jp/floor/b2f_en.jsp]

MEETINGS

The 20th French Ostracodologists Meeting (20th ROLF) was held in Saucats near Bordeaux (SW France) from May 7-9, 2004. This meeting was dedicated to the initiator of these meetings, **H.J. Oertli**, and was organized by the Reserve naturelle Géologique de Saucats-La Brede (**J.-P. Colin**) and the University of Bordeaux I (**P. Carbonel**). About 30 participants coming from nine countries (France, Tunisia, Germany, Switzerland, Italy, Spain, Great Britain, Portugal, and Australia) attended the meeting and ten papers were presented, followed by a conference on the stratigraphy and the paleogeography of the Miocene of the Aquitaine Basin. The following day was dedicated to two field trips: the Aquitanian and Burdigalian stratotypic outcrops in the neighborhood of the Reserve géologique and a visit of the Station Biologique d'Arcachon (**J.C. Massabuau** and **L. Corbari**). The proceedings will be published as a special issue of the *Revue de Micropaléontologie*. The next meeting will be organized in Tétouan (Morocco) by **D. Nachite** (Tétouan University).

Helga Groos-Uffenorde

The last formal meeting of the German ostracodologists took place in Mainz in 2002, well organized by **Peter Schafer**. Besides a scientific session in the Geological Survey of Rheinland Pfalz, an excursion took place to well-known sections in the Mainzer Becken.

During the annual meeting of the Palaeontologische Gesellschaft in Goettingen (October 2-8, 2004), 19 German-speaking ostracodologists met for a workshop on ostracodes. The abstracts of five talks were published in:

- '74, *Jahrestagung der Palaontologischen Gesellschaft*, Gottingen 2004, Exkursionen and Workshops, Universitätsdrucke Gottingen, 245-250:
- Blumenstengen, H. and Bender, P., 2004, Ostracoden aus der Weitershausen-Formation (Oberdevon, Horre, Rheinisches Schiefergebirge), p. 245.
- Dojen, C., 2004, Ostrakoden aus dem Unterdevon von Keltiberien (N-Spanien), p. 246.
- Gramann, F., 2004, Marine Ostracoden und Palaogen-Stratigraphie Norddeutschlands, p. 247.
- Gross, M., 2004, Ostracodenfaunen aus dem Mittel- und Ober-Miozan Osterreichs (Wiener Becken, Badenium; Steirisches Becken, Pannonium), p. 247-248.

- Sames, B., 2004, Ostracoda der nichmarinen Unterkreide des U.S. Western Interior: biostratigraphie, palaoökologie, biogeography und phylogenie, p. 249-250.

Future Meetings: ISO 15

The **15th International Symposium on Ostracoda** will be held in Berlin on September 12-15 (September 8-19 including all field trips), 2005. Abstract submission and conference fee payment deadline is May 31, 2005. Please check <http://www.palaeo.de/iso15> for further information. Theme: Ostracodology—linking bio- and geosciences.

The Berlin Ostracodology Group and the International Research Group on Ostracoda cordially invite you to attend the 15th International Symposium on Ostracoda. The symposium will be held on the Lankwitz campus of the Freie Universität Berlin in the south of Berlin, Germany. This meeting is officially sponsored by the International Research Group on Ostracoda (IRGO) and the Freie Universität Berlin.

Symposium web site: <http://www.palaeo.de/iso15>

Please download the 2nd Circular for more information.

PDF (<http://userpage.fu-berlin.de/~palaeont/iso15/ISO15-circular2.pdf>)

WORD (<http://userpage.fu-berlin.de/~palaeont/iso15/ISO15-circular2.doc>)

Organizing committee:

Chairman: Michael Schudack (Freie Universität, Berlin)
 Secretary: Steffen Mischke (Freie Universität, Berlin)
 Treasurer: Ulla Schudack (Freie Universität Berlin)
 Counsellors: Helmut Keupp (Vice President Freie Universität Berlin)
 Benjamin Sames (Freie Universität Berlin)
 Rolf Kohring (Freie Universität Berlin)
 Anna Pint (Freie Universität Berlin)
 Peter Frenzel (Universities of Rostock and Greifswald)
 Renate Matzke-Karasz (Ludwig-Maximilians-Universität München)
 Finn Viehberg (Ernst-Moritz-Arndt Universität Greifswald)

Scientific committee: Elisabeth Brouwers (USA)

Dan L. Danielopol (Austria)

Patrick De Deckker (Australia)

Ingeborg Hinz-Schallreuter (Germany)

David J. Horne (United Kingdom)

Eugen K. Kempf (Germany)

Alan Lord (United Kingdom)

Claude Meisch (Luxembourg)

Henri J. Oertli (France)

Julio Rodriguez-Lazaro (Spain)

Eugenij I. Schornikov (Russia)

Robin Whatley (United Kingdom)

Contact/conference secretary: Prof. Steffen Mischke, Fachrichtung Palaontologie, Institut für Geologische Wissenschaften, Freie Universität Berlin, Malteserstrasse 74-100, 12249 Berlin, Germany, Phone 0049-30-83870285, Fax 0049-30-83870745, E-mail smischke@web.de

An image of every attendee will be published in the abstract volume of the Congress.

Important deadlines

Final deadline for payment and registration: May 31, 2005

Abstract deadline: May 31, 2005

Deadline for submission of extended manuscripts: September 15, 2005

NEW TAXA

Jean-Paul Colin

Genera

- *Humphreyscandona* Karanovic and Marmonier, 2003
- *Notacandona* Karanovic and Marmonier, 2003
- *Pilbaracandona* Karanovic and Marmonier, 2003
- *Septacandona* Cabral and Colin, 2002

Species

- *Ambostracon lilianae* Babinot, 2002, Tortonian, Turkey
- *Candona? parvissima* Cabral and Colin, 2002, Lower?-middle Oxfordian, Portugal
- *Candonopsis murchisoni* Karanovic and Marmonier, 2002, Recent, Australia
- *Candonopsis dani* Karanovic and Marmonier, 2002, Recent, Australia
- *Candonopsis kimberleyi* Karanovic and Marmonier, 2002, Recent Australia
- *Candonopsis westaustraliensis* Karanovic and Marmonier, 2002, Recent, Australia
- *Candonopsis williami* Karanovic and Marmonier, Recent, Australia
- *Cetacella aittabensis* Andreu and others, 2003, Late Jurassic ?-Upper Hauterivian, Morocco
- *Cetacella iouaridensis* Andreu and others, 2003, Upper Hauterivian-Lower Barremian, Morocco
- *Cypria bodergatae* Pipik, 2003, Upper Miocene, Slovakia
- *Cypria isosceles* Pipik and Bodergat, 2003, Upper Miocene, Slovakia
- *Cypria lenticulata* Pipik and Bodergat, 2003, Upper Miocene, Slovakia
- *Cypria polyphema* Pipik and Bodergat, 2003, Upper Miocene, Slovakia

- *Cypridea daoudensis* Andreu and others, 2003, Upper Hauterivian-Lower Barremian, Morocco
- *Cypridea rhaelensis* Andreu and others, 2003, Upper Hauterivian-Lower Barremian, Morocco
- *Cypris silverinhaensis* Colin and Antunes, 2003? Late Paleocene-lowermost Eocene, Portugal
- *Euxinocythere aphroditae* Pipik and Bodergat, 2004, Upper Miocene, Slovakia
- *Euxinocythere delicata* Pipik and Bodergat, 2004, Upper Miocene, Slovakia
- *Euxinocythere lactea* Pipik and Bodergat, 2004, Upper Miocene, Slovakia
- *Euxinocythere minuscule* Pipik and Bodergat, 2004, Upper Miocene, Slovakia
- *Euxinocythere quadricostata* Pipik and Bodergat, 2004, Upper Miocene, Slovakia
- *Euxinocythere satyricea* Pipik and Bodergat, 2004, Upper Miocene, Slovakia
- *Fossocytheridea mosbyensis* Tibert and others, 2003, Cenomanian, United States
- *Fossocytheridea kiklandi* Tibert and others, 2003, Cenomanian, United States
- *Gomphocythere achloujensis* Colin and Tabuce, 2004, Maastrichtian, Morocco
- *Humphreyscandona adorea* Karanovic and Marmonier, 2003, Recent, Australia
- *Humphreyscandona fovea* Karanovic and Marmonier, 2003, Recent, Australia
- *Humphreyscandona pilbarae* Karanovic and Marmonier, 2003, Recent, Australia
- *Humphreyscandona walkockae* Karanovic and Marmonier, 2003, Recent, Australia
- *Humphreyscandona woutersi* Karanovic and Marmonier, 2003, Recent, Australia
- *Ilyocypris lusitanicus* Colin and Antunes, 2003 ?Late Paleocene-lowermost Eocene, Portugal
- *Geffenina wangi* Crasquin-Soleau, 2003, Early Murghabian, Sultanate of Oman
- *Ilyocypris papilionacea* Pipik and Bodergat, 2003, Upper Miocene, Slovakia
- *Notacandona boultoni* Karanovic and Marmonier, 2003, Recent, Australia
- *Notacandona modesta* Karanovic and Marmonier, 2003, Recent, Australia
- *Pilbaracandona eberhardi* Karanovic and Marmonier, 2003, Recent, Australia
- *Septacandona azeredae* Cabral and Colin, 2002, Lower?-Middle Oxfordian, Portugal
- *Septacandona multicostata* Cabral and Colin, 2002, Lower?-Middle Oxfordian, Portugal
- *Septacandona ramalhoi* Cabral and Colin, 2002, Lower?-Middle Oxfordian, Portugal
- *Zonocypris digitalis* Babinot, 2003, Campanian, Provence, SE France

Tribes

- Danielocandonini
- Candonopsini
- Humphreyscandoni
- Paracandonini
- Terrestriacandonini

Genera

- *Acandona* Karanovic, 2003
- *Areacandona* Karanovic, in press
- *Deminutiocandona* Karanovic, in press
- *Humphreyscandona* Karanovic and Marmonier, 2003
- *Meridiescandona* Karanovic, 2003

- *Notacandona* Karanovic and Marmonier, 2003
- *Neocandona* Karanovic, 2003
- *Origocandona* Karanovic, in press
- *Pilbaracandona* Karanovic and Marmonier, 2003
- *Pioneercandonopsis* Karanovic, 2005

Subgenera

- *Abcandonopsis* Karanovic, 2004

Species

- *Acandona admiratio* Karanovic, 2003
- *Acandona memoria* Karanovic, 2003
- *Areacandona mulgae* Karanovic, in press
- *Areacandona arteria* Karanovic, in press
- *Deminutiocandona mica* Karanovic, 2003
- *Humphreyscandona adorea* Karanovic and Marmonier, 2003
- *Humphreyscandona fovea* Karanovic and Marmonier, 2003
- *Humphreyscandona pilbarae* Karanovic and Marmonier, 2003
- *Humphreyscandona woutersi* Karanovic and Marmonier, 2003
- *Humphreyscandona waldockae* Karanovic and Marmonier, 2003
- *Humphreyscandona imperfecta* Karanovic, in press
- *Meridiescandona facies* Karanovic, 2003
- *Meridiescandona lucerna* Karanovic, 2003
- *Notacandona modesta* Karanovic and Marmonier, 2003
- *Notacandona boultoni* Karanovic and Marmonier, 2003
- *Neocandona novitas* Karanovic, in press
- *Neocandona newmani* Karanovic, in press
- *Origocandona inanitas* Karanovic, in press
- *Origocandona gratia* Karanovic, in press
- *Pilbaracandona eberhardi* Karanovic and Marmonier, 2003
- *Pilbaracandona colonia* Karanovic and Marmonier, 2003
- *Pioneercandonopsis hancocki* Karanovic, 2005
- *Candonopsis (Abcandonopsis) aula* Karanovic, 2004
- *Candonopsis (Abcandonopsis) indoles* Karanovic, 2004

Roger Kaesler

- **Julie Retrum** has described two new species of *Carbonita*. Her paper has been submitted for publication.

Okan Kulkoyluoglu, C. Meisch and W.R. Rust (2003)

A new genus (*Thermopsis thermophila* n. gen.) of Ostracoda (Crustacea) from hot springs of western North America: *Hydrobiologia*, 499:113-123. The species of this genus is able to live up

to 55⁰ of water temperature. So far it has only been reported from the hot springs of the Great Basin area in North America.

Wolfgang Mette

Jurassic of Madagascar:

- *Acrocythere oculata*
- *Australophocythere*
- *Australophocythere malgachica*
- *Fastigatocythere globosa*
- *Fastigatocythere trisulcata*
- *Majungaella ventriosa*
- *Majungaella microperforata*
- *Majungaella glabra*
- *Paradoxorhyncha malgachica*
- *Pirileberis tenuisulcata*
- *Pirileberis tenuicostata*
- *Trichordis praetexta magna*

Maria Ines Feijo Ramos

- *Argilloecia inflata* Ramos and others, 2004
- *Argilloecia subacuta* Ramos and others, 2004
- *Australimoosella polypleron* Coimbra and others, 2004
- *Bairdoppilata sudbrasiliensis* Ramos and others, 2004
- *Cativella paratranslucens* Coimbra and others, 2004
- *Cativella reticulocostata* Coimbra and others, 2004
- *Cletocythereis atlantica* Coimbra and others, 2004
- *Cytheridella purperae* Ramos, 2004
- *Henryhowella tuberculoclaviforma* Coimbra and others, 2004
- *Neonesidea? rotunda* Ramos and others, 2004
- *Pontocypris ? punctatus* Ramos and others, 2004

Julio Rodriguez-Lazaro

- *Quinghaicypris riojensis* Rodriguez and Martin (in press), Ilyocyprididae, Pliocene).

Ian Wilkinson

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Moriaki Yasuhara

- *Cytheropteron kumaii* Yasuhara and others, 2002
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OBITUARY

[Helga Groos-Uffenorde) and Robert F. Lundin]:

In Memoriam: Jean Milton Berdan, 1916-2004

Jean M. Berdan, born in 1916, received her PhD from Yale University in 1949. In 1942 she joined the Water Resources Division of the U.S. Geological Survey (USGS), working in New York State. Upon completion of her PhD degree, she became a member of the Paleontology and Stratigraphy Branch of the USGS, where she spent the rest of her professional career. Jean Berdan became Scientist Emeritus at the USGS in 1991. In the early 1960s, Jean Berdan became a Research Associate of the Department of Paleobiology at the National Museum of Natural History. Although her primary research interests dealt with Ordovician, Silurian, and Devonian ostracodes and stratigraphy, she wrote significant papers on lower Paleozoic brachiopods, Silurian-Devonian pelecypods, and jaw-like apparatuses of Silurian and Devonian organisms of uncertain affinity.

Jean Berdan published papers on virtually every major group of ostracodes and leperditicope arthropods. But she did not simply describe and classify ostracodes. A hallmark of her papers is application of the faunas to problems of age determination, correlation, stratigraphic relationships, paleoenvironmental interpretation, and paleogeography. Indeed, she provided some of the earliest ostracode evidence for the closure of the Iapetus Ocean with her discovery, in Maine, of Silurian ostracodes from the British-Baltic-Podolian province. Her work on Ordovician leperditicopids from Kentucky and adjacent areas (1984) still stands as a standard for this group of arthropods. A list of Jean Berdan's publications, that we believe to be nearly complete, follows this memorial.

Evidence of Jean Berdan's wide interests and activities is visible in the archives of the Smithsonian Institution. She dealt with materials from Canada and other foreign countries and almost all of the states of the U.S. She corresponded with virtually all researchers around the world that had an interest in lower Paleozoic ostracodes and stratigraphy as well as many who had interest in general paleontology of the lower Paleozoic. This correspondence attests to the high esteem in which she was held by her colleagues. She was consulted by many researchers for her knowledge of lower

Paleozoic paleontology and stratigraphy. Jean Berdan made available to ostracodologists all over the world her catalog with photographs enlarged by new photos of type material of ostracodes published (e.g., by Ulrich, 1916) and deposited in the collections of the USGS. Independently, we can personally attest to Jean's unselfish willingness to help her colleagues. She spent many hours talking with us and writing letters, especially when we were just beginners in ostracodology. She did not hesitate in reading long manuscripts of foreign colleagues and brushing up their English grammar.

Jean Berdan was an enthusiastic member of the International Research Group on Paleozoic Ostracodes, the International Commission on Silurian Stratigraphy, and the Geological Society of America as well as numerous other geological associations. She attended most of the International Symposia on Ostracodes where she stimulated and enriched the discussions on Paleozoic ostracodes and stratigraphy. We will miss her humor, her songs, and her limericks on the bus during excursions. Her songs and limericks played important parts in Paleontology and Stratigraphy branch parties at which fun was poked at USGS administrators.

Many colleagues will remember Pedro, the varan living together with Jean Berdan and Betsy Veld in Washington, D.C. for many years. At least two albums filled with photographs prove the visits of many colleagues from all over the world (sometimes intimidated) carrying the dangerous looking but patient and harmless Pedro.

On November 17th, 2004, we lost an open minded and modest scientist, a reliable, generous colleague and very good friend.

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In Memorium: Kenneth Glencoe McKenzie (1928-2003)

[Peter J. Jones, Department of Earth and Marine Sciences, The Australian National University. This obituary was published in *The Australian Geologist*, 130:49-50 and, with kind permission, is reproduced here specifically for a wider circulation among the palaeontological fraternity.]

Ken McKenzie passed away suddenly on the morning of 14 May 2003, after his usual walk on his beloved property "Yugen", near Wagga Wagga, New South Wales. His death interrupted sharply a lifetime of vibrant scientific work and community activities. Ken is survived by his wife, Judith Le Lievre, two sons, three daughters, and eleven grandchildren.

Ken was born on 18 September 1928 in Poona, India, where he received his early education at Bishops High School (1936-1945) and later at Wilsons College, at the University of Bombay (1945-47). In 1948 he began military service in the British Army (Royal Engineers) in Britain, where he was trained as a surveyor (engineering, topographic, photogrammetric) and was later posted to Hong Kong and Malaya. During his five years (1948-53) in the army, he showed his sporting prowess in hockey, cricket, and athletics. Ken's surveying skills later led to jobs in Australia with seismic and gravity teams prior to, and during, his study for a B.Sc. in Geology at the University of Western Australia. He gained his hockey blue in his first year. After graduating in 1957, Ken was employed as an oil company exploration geologist (Caltex/Amoco; Filipinas Oil; Exoil) and gained considerable field experience in Australia and the Philippines. Ken used his surveying skills again on a joint expedition of the Western Australian Museum and the Museum of Paleontology, Berkeley, California, to document the sites of vertebrate localities in the Triassic Blina Shale of the Canning Basin, Western Australia. This was the subject of his first paper, which was published in 1961. In 1960 Ken returned to the University of Western Australia to commence study for the Ph.D degree. The topic for his research, "*Oyster Harbour: a marginal marine environment*", which documented the ecological association of ostracods and foraminiferids off Albany, Western Australia, marked the beginning of a distinguished career of research on Ostracoda.

After he gained his Ph.D in 1963, Ken was awarded post-doctoral scholarships at the Stazione Zoologica, Naples; the Department of Geology, University of Minnesota (1963-64); and the Department of Zoology, Monash University (1965-67). In 1967, he was appointed Head of the Entomotraca Section at the British Museum (Natural History), London, and held this position until 1972. It was here Ken started to think about the origin of the crustaceans and learned much from several of the world's leading experts on this group, including **Sidnie Manton**, who worked in an adjacent office. In the field, he led the Royal Society's expedition to the Aldabra Islands, off Madagascar, and made collections for the British Museum in South Africa and South America (Argentina, Brazil, and Chile). It was such collections that awakened his interest in the palaeobiogeographic distribution of Cainozoic ostracods, both freshwater and marine. He also developed an interest in the quantitative aspects of taxonomy and was awarded a Diploma in Numerical Taxonomy at the Estudos Avancados de Oeiras, Portugal. By the time Ken left England, he had won a well-earned reputation as one of the world's leading researchers on living and Cenozoic marine and freshwater ostracods.

In 1973, Ken returned to Australia, and established the Geology Department in the School of Applied Science at the Riverina College of Advanced Education (now the Charles Sturt University), Wagga Wagga, New South Wales. This department is now closed, but not before having made a significant contribution to the educational needs in the Riverina region, and to scientific knowledge well beyond. Despite heavy teaching commitments, Ken produced a substantial flow of research papers, among which those on Cainozoic ostracods, formed the basis of his thesis for a D.Sc. (University of Western Australia), which was awarded in April 1982.

Ken developed an international network of colleagues, all sharing a mutual passion for Ostracoda. He established good friendships with many of them, especially those with whom he shared co-authorship in joint papers. Some of the earliest were those in the United States (**Fred Swain, Richard Benson, Roget Kaesler, and Willem van den Bold**), England (**Peter Sylvester-Bradley**), and Sweden (**Richard Reyment**). Others were in France (**Jean-Pierre Peypouquet**), Italy, India, China, and Japan.

In 1985, he was appointed an Associate in the Department of Geology, University of Melbourne, where he supervised the research of **Mark Warne** (Ph.D) and **John Neil** (M.Sc.) on Cainozoic marine ostracods of Victoria. After his formal retirement from his teaching duties at Charles Sturt University in 1988, he continued many more productive years of ostracod and crustacean research at the University of Melbourne. From here and from his home in Wagga Wagga he maintained a fine record of individual and collaborative research with colleagues in Australia, and worldwide. Without teaching commitments, Ken was also able to spend longer periods consolidating his research links previously established with colleagues in Italy, India, Sweden, and China (**Pei-ji Chen**).

In all, Ken published about 175 papers and edited or co-edited several books. His ostracod research could be broadly divided into the biology and biogeography of extant species from freshwater, brackish and marine environments, and the palaeontology of extinct species throughout the Phanerozoic. From the latter work he developed his ideas on the phylogeny and classification of the Ostracoda, and how this was related to the evolution of the Crustacea as a whole. To my

knowledge, Ken still has one paper, at least, in the publication pipeline. I was recently shown a manuscript, which he co-authored, describing the ostracod fauna of the Miocene freshwater limestones from the Riversleigh World Heritage deposits of northern Queensland.

Ken will be remembered for his ability in organizing many scientific conferences, either as the main organizer, or part of the organizing committee, beginning with the *Origin of Life* meeting of the Systematics Association in London in 1969. He was a co-founder of the Shallow Tethys (ST) working group of the International Palaeontological Association, together with **Giuliano Piccoli** (University of Padua, Italy). It was typical of Ken to put his hand up at the First ST meeting in Padua in 1982 and volunteer to organize the second meeting in Wagga Wagga in 1986. In 1988, I well remember receiving his phone call from Wales at the 10th International Symposium on Ostracoda (ISO) in Aberystwyth, telling me of a fortuitous opportunity that had arisen for us to host the next ISO meeting of this group in Australia. During the next three years Ken, together with **Patrick De Deckker** and me, organized the 11th International Symposium on Ostracoda, which was held at Deakin University on its Warnambool campus in 1991.

Ken put great emphasis on original thought in research, and never felt constrained to accept current orthodoxy, without critical evaluation. In this spirit, he admired the concepts of such iconoclasts as **Sam Carey** and **Art Boucot**, who he selected as keynote speakers at the Shallow Tethys 2 meeting, and to whom he dedicated the volume of the proceedings.

Ken had a distinct, easy-flowing writing style, which in some papers, especially those dealing with Tethys, tended to be rather florid. However, this did not detract from their clarity. He could immediately attract the attention of the reader with snappy titles like "*Homeomorphy: persistent joker in the taxonomic pack*". The extent and classical background of his knowledge was exemplified by his interest and research into Tethys. In his concluding epilogue on the proceedings of the Second Shallow Tethys Symposium, he discussed the origin of Tethys from many aspects, starting from classical mythology and ending with modern scientific thoughts of Suess, Wegener, and the plate tectonic model. It is noteworthy that one reviewer (**Tony Hallam**) of the published proceedings "was charmed to see that must be the first ever citation of Botticelli's *Birth of Venus* in a scientific reference list".

Italy was a second home to Ken. He had made about ten visits to the University of Parma since 1965, each about 2-3 months per year; three visits to the Stazione Zoologica, Naples; and one visit to the University of Padua. All of these visits involved collaboration in joint studies, and a simultaneous absorption of local cultural values. In October 2001, Ken traveled to Parma to receive the 'Scritture d'Acqua' Premio Salsomaggiore Internazionale, a prestigious award supported by the European Commission, several Ministries of the Italian Government, and many Communes in northern Italy. A persona profile of Ken in the local newspaper in June 2001 described his typical day starting, like many other Parma citizens, with a visit to his favourite café for his usual cup of coffee and a read of the local events in the *Gazzetta di Parma*. The reporter thought that Ken looked typically Italian; so much so, he compared his physiognomy with that of Arturo Toscanini. Ken had an excellent knowledge of the Italian language, literature, art, and history. He published a volume of poetry in Italian and also translated into English the operatic play "*Il diavolo con le zinne*" by the Italian (Nobel Prize winning) playwright, **Dario Fo**, to bring back to Australia.

Ken had a discerning taste for wine and was proactive in the promotion of the wines produced at the Charles Sturt University (then the Riverina College of Advanced Education). Whenever he visited Canberra, he would bring six of the best 'College Wines' for his BMR palaeontological colleagues to taste, and to place their orders. During his visit to Bordeaux in 1979, as well as working on the Cenozoic ostracods from the Aquitaine Basin, he also managed to spend some time picking grapes in the vineyards of Gascogne. His zest for life and enthusiasm for activities beyond his chosen field of scientific interest seemed almost boundless. In his early years at the Riverina College, he edited the literary magazine *Grapeshot* (1974-78) and was involved in several drama and ballet productions (1973-1986). Wherever he visited, he would bring home to Wagga Wagga something of the cultural values he had learned from the host country. On his return from France in 1979 he lost no time in sharing his keen interest in French music with others on Radio 2WG, Wagga Wagga.

Ken was a man of integrity, with a strong sense of purpose, which was expressed in his service to the community, through Local Government. In 1991 he was elected a Councillor on the Wagga Wagga City Council, where his sharp mind and his analytical skills were greatly valued. He declined an invitation to stand for re-election at the end of his four-year term of office because he still had many scientific projects to complete. Ken was also a man of strong philosophical convictions, and a popular and well-respected member of St. Andrew's Presbyterian Church and Parish of Wagga Wagga. It was here he actively participated in church life as Secretary of the management committee (1975-85) and frequently gave talks on his scientific work to various groups. At last year's St. Andrew's Day concert, he read a number of poems of Robbie Burns, to the delight of the audience, who also were impressed with his accent.

Ken will be remembered for both his scientific achievements and his humanity, by so many people, his local community of Wagga Wagga, and his colleagues in Australia and throughout the world.

In Memorium: Professor Tadeusz Sywula

Prof. Sywula had a car accident during his fieldwork in Macedonia and passed away there suddenly on August 23, 2004. His obituary and results of his studies, his bibliography, will be prepared for the proceedings of ISO15.

ABSTRACTS

Cohen, A.C. and Morin, J., 2003, Sexual morphology, reproduction, and bioluminescence in Ostracoda, *in* L.E. Park and A.J. Smith, eds., Bridging the gap: trends in the ostracode biological

and geological sciences: The Paleontological Society Papers, 9:37-70, New Haven, Yale University Press.

A broad array of the highly variable morphological characters available in Ostracoda were used (1) to construct a new tabular key to the families of the subclass Myodocopa (and to differentiate the Myodocopa from the Podocopa), and (2) to explore the evolution of bioluminescence in the myodocopid family Cypridinidae. Results of a cladistic analysis of the Cypridinidae strongly support a single origin of bioluminescence within the family; a single clade contains at least 64 species known to luminescence (not all described). Furthermore, within that large clade, complex bioluminescent mating displays were confined by the analysis to a single clade of exclusively Caribbean cypridinids, though that result was unresolved by bootstrap analysis.

Chemically different bioluminescence occurs convergently in two ostracode groups; it is produced within carapace glands of certain Halocypridina, Myodocopida and serves as an antipredatory behavior in both groups. Additionally, at least 60 cypridinid species also produce spectacular and complex species-specific male mating displays nightly in the Caribbean Sea. The cladistic analysis using 58 morphological characters of 44 taxonomic units (24 described genera of Cypridinidae, 11 individual species assigned to the genus *Vargula*, six groups of bioluminescent signaling Caribbean species (many undescribed), the Cylindroleberididae, and the Philomedidae) was performed using PAUP with the parsimony criterion. Twenty-five of the characters were previously underutilized characters of the complex upper lip and large male copulatory limbs discovered through dissection and SEM. These proved especially valuable, but characters of all other limbs were also included.

The Cypridinidae was confirmed as a monophyletic taxon with several well supported subclades in addition to the large bioluminescent one. *Skogsbergia*, which apparently uses an antennular fan of iridescent blue filaments in courtship (Parker, 1997) belongs to a clade with five other cypridinid genera, including the four that have a similar fan. The genus *Vargula* was determined to be a polyphyletic assemblage. New genera will be established for former *Vargula* species including "*V.*" *tubulata*, "*V.*" *hilgenforfii*, "*V.*" *tsujii* and all bioluminescent signaling species. Similar problems may exist for other large cypridinid genera, and clearer resolution of generic definitions might possibly reveal more significant patterns of geographic distribution within the family.

Most characters of the carapace were found to be too convergent to be useful. Though carapace characters are diagnostic for some ostracode taxa, most should not be used by themselves to identify ostracodes with certainty. General aspects of reproduction are also reviewed.

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