
Pander Society Newsletter



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INTRODUCTORY REMARKS

WELCOME to edition 34 of the Pander Society Newsletter. 2001 was a relatively quiet year for formal Pander Society activities, apart from the annual US meeting that took place in Normal, Illinois. Thanks go to Jim Barrick for the organisation of that event. More informal gatherings of Panderers were, as always, much more numerous, and two postcards were received by the Chief Panderer from such get-togethers. One, bearing the unlikely motif of a woman applying lipstick to her arm, came from a group of Australian conodontologists plus Ivan Sansom [the card was evidently something to do with 'Australian Fashion Week' (can anyone define 'oxymoron' for us?)]. The second was actually delivered by hand in a bar in Copenhagen where a number of British, Irish and Scandinavian conodont aficionados had accumulated for the now traditional pre-Christmas, pre-Palaeontological Association Conference meeting of the microvertebrate group of the Micropalaeontology Society.

As you all know, 2002 promises to be a much more action-packed year, with the US Pander Meeting in Lexington and ECOS VIII in France and Spain. There is also likely to be considerable conodont interest in the first International Palaeontological Congress in Sydney, for which the Pander Society is one of the sponsoring groups. We hope to see many readers of this newsletter at one, two or all of these events.

Dick Aldridge
Chief Panderer

Mark Purnell
Pander Society Webmaster

PEOPLE

Congratulations to:

Derek Briggs, who has been presented with the Boyle Medal for Scientific Excellence by the Royal Dublin Society and the Irish Times.

Tamara Nemyrovska, who has received the Teichmuller Prize of the German Geological Society.

Ivan Sansom, for being awarded the Hodson Fund of the Palaeontological Association.

Dieter Stoppel, who we hear was awarded Honorary Membership of the BDG at their Annual General Meeting in Bonn on November 3rd, 2001.

OBITUARY

Edric Charles Druce (1939-2001)

Peter Jones and Bob Nicoll write: Edric Charles Druce died suddenly following a massive heart attack on April 19, 2001 in Canberra, Australia. Ed was a man of three careers and one underlying passion, that is other than his family of Jan, Deryn and Ben.

Ed's early career was in conodonts. Ed was born in England on November 3, 1939. He attended university at Durham, and went on to a master's degree at University College of Swansea where, under the direction of Frank Rhodes, he and Ronald Austin studied the British Avonian. This study would later appear in print in 1969 under the authorship of Rhodes, Austin & Druce.

Ed moved to Australia in late 1965, taking a position with the Australian Bureau of Mineral Resources, Geology and Geophysics where he was to take over the conodont biostratigraphic work from Peter J. Jones. He initially worked on Devonian and Carboniferous conodonts in the Bonaparte Basin (BMR Bulletin 98 – 1969). In 1966 Ed developed the concept of a mobile conodont lab that allowed processing of samples in the field. This concept was used extensively by Ed in successive years in basins throughout Australia. After Devonian and Carboniferous work in Queensland in 1966, he initiated work in 1967 on the Cambrian-Ordovician of the Burke River Structural Belt in Queensland. In 1968 Ed was in the Canning Basin working with Phil Playford on the Devonian Reef complex and took the material he collected to the University of Michigan where he worked on a PhD degree under Frank Rhodes.

Ed returned to BMR and Canberra in 1971 and was off to the Canning Basin again in 1972, where he would work with Phil Playford and Bob Nicoll, amongst others, on the Late Devonian and the Early Carboniferous. In 1974 Ed returned to the Georgina Basin where he developed a multidisciplinary program on the Early Ordovician sediments of that basin. This included processing many more samples with the mobile conodont lab. This study continued until 1979 when Ed left BMR and essentially terminated his conodont work.

Ed's second career started after leaving BMR. He continued to work for the Australian Public Service in the general field of Trade and Resources and became involved in a diverse variety of issues. Thus it should have been no surprise that when turning on the radio in Canberra one day there was a news interview program with Ed talking about the importance of Orange Roughy, now widely known as an important deep water fish stock, but at the time virtually unknown to the public. For three years, in the 1980s, he was the Australian Consul and Trade Commissioner in Toronto, Canada.

Ed's third career came when he left the Public Service and became a partner in a small, but highly successful, international consulting business group in Canberra, a group he was still associated with at the time of his death. Through all this Ed was deeply involved in the world of stamps. He was an international judge of philatelic exhibitions, and he won many gold medals for the stamps he exhibited. Recently, it was acknowledged that "Ed's contributions to local, national and international philately were without equal". An Ed Druce Memorial Trophy is to be awarded by the Australian Philatelic Federation in his honour.

Ed had a deep love for the Australian bush. He enjoyed the subtle beauty of the outback and camping appeared to be part of his nature. His mobile conodont lab and field processing of samples meant that field seasons could easily be up to 3 months long. As long as the tea, beer and meat were there, the work would go on. When it was time to travel, there was usually a campsite near a pub in the evening where more than a few ales were consumed. And travel required that one never drove the same road twice, there must be a new way to go, a new sight to see.

CLOSURES

Eric Groessens has let us know that the Geological Institute of the University of Louvain-la-Neuve, Belgium, is closing this year. This institution has produced several eminent conodont workers : Bultynck, Mouravieff, Coen, Conil, and Eric himself.

We also hear from Willi Ziegler that the Department of Geosciences at Marburg, one of the great hubs of conodont research in the second half of the 20th century, is similarly threatened with closure. We hope to bring more news of this and document the history of conodont research at Marburg in the next Newsletter.

FUTURE MEETINGS

PANDER SOCIETY MEETING 2002

The Pander Society will be meeting in conjunction with the North-central/Southeastern GSA meeting in Lexington, Kentucky. The meeting will be held on April 3 - 5.

ECOS VIII - EIGHTH INTERNATIONAL CONODONT SYMPOSIUM HELD IN EUROPE; TOULOUSE & ALBI, JUNE 22-25 2002

The full programme for ECOS VIII was detailed in last year's Newsletter. The pre-conference field trip in North Spain will run from June 13-21, the scientific sessions will begin in Toulouse on June 22 and end in Albi on June 25, and the post-conference trip in SW France will run from June 26 to July 1.

Details are available at the Pander Society website:

<http://www.le.ac.uk/g1/map2/pander/>

Excursions: These include a long post-conference excursion pitched for conodontophiles, focusing on the Palaeozoics of NE Queensland (Broken River region; Burdekin and Hodgkinson Basins) and the Canning Basin of Western Australia.

Details can be found at:

www.es.mq.edu.au/mucep/ipc2002/index.htm

International Symposium on the Ordovician System and associated meetings, San Juan, Argentina, 18-21 August 2003

The Argentine Republic has been elected as the host country for the upcoming "9th International Symposium on the Ordovician System, 7th International Graptolite Conference, and Field Meeting of the Subcommission on Silurian Stratigraphy". Symposia are scheduled in conjunction to be held in San Juan City, located at the Andes foothill, western Argentina, on August 18-21, 2003. The meetings will include scientific sessions, workshops, and business sessions of the respective Ordovician and Silurian Subcommissions (ICS-IUGS), and the Graptolite Working Group (IPA). Proceedings volumes of short papers will be published.

Pre and post-symposia field trips are scheduled, visiting classical localities with highly-fossiliferous Ordovician carbonate and siliciclastic sequences in the Precordillera (August 13-17, San Juan and Mendoza provinces, west Argentina), and the Eastern Cordillera (August 22-26, Salta and Jujuy provinces, north west Argentina). These localities are framed by wonderful landscapes in the varied environments of both geological provinces. Typical folk events, including music, dance and gastronomy, flavoured by vineyards growing up from Ordovician rocks, will show diverse aspects of the rich Argentine culture. The first circular is now available at: <http://www.cricyt.edu.ar/2003.htm>

OTHER MEETINGS

First International Palaeontological Congress, Sydney, 6-10 July 2002

Venue: Sydney, principally Macquarie University, with a portion of the programme at the Australian Museum. There is abundant accommodation (student to 4-star categories) in the vicinity of Macquarie University.

Sponsors: International Palaeontological Association, the Australasian Association of Palaeontologists, and the Macquarie University Centre for Ecostratigraphy and Palaeobiology.

Symposia of interest to conodontophiles will include: Global extinction events (abrupt, gradual or polyphase); Evolution of pelagic communities through time; Computer palaeobiogeography; High resolution biostratigraphy.

SUMMARY OF TOPICS MENTIONED IN RESEARCH REPORTS

A. Cambrian. Dong, Donoghue, Ethington, Harris, Kozur, Nowlan, Obut, Repetski, Serpagli, Smith, Tolmacheva, Xia

B. Ordovician. Albanesi, Aldridge, Armstrong, Bagnoli, Baldrey, Barnes, Bauer, Dhanda, Dong, Dubinina, Ethington, Feretti, Furey-Greig, Hall, Harris, Ivanov, Izokh, Kozur, Leslie, Löfgren, Männik, Mawson, McCracken, Metzger, Molloy, Nicoll, Nowlan, Obut, Pashnin, Percival, Poole, Pyle, Rasmussen, Repetski, Sansom, Sarmiento, Serpagli, Shaw, Simpson, Smith, Sweet, Talent, Tarabukin, Tolmacheva, Viira, Wickström, Xia, Zhang, Zhen

C. Silurian. Aldridge, Bardashev, Barnes, Barrick, Bikbaev, Bultynck, Corradini, Dubinina, Furey-Greig, García-López, Harris, Ivanov, Izokh, Kleffner, Kozur, Männik, Mathieson, Mawson, McCracken, Metzger, Miller, Molloy, Nicoll, Norby, Nowlan, Pashnin, Percival, Poole, Purnell, Pyle, Rasmussen, Sansom, Sanz-López, Sarmiento, Serpagli, Simpson, Snigireva, Talent, Viira, Wickström, Zhang

D. Devonian. Bardashev, Belka, Bikbaev, Boncheva, Bultynck, Capinoglu, Corradini, Donoghue, Dopieralska, Drygant, Dubinina, Dzik, García-López, Gholamalian, Girard, Gouwy, Hairapetian, Harris, Hisaharu Igo, Hisayoshi Igo, Ivanov, Izokh, Johnston, Klapper, Kozur, Lai, Luppold, Mathieson, Matyja, Mawson, Metcalfe, Metzger, Narkiewicz, Percival, Perri, Piecha, Poole, Pyle, Sandberg, Sanz-López, Savage, Simpson, Snigireva, Spalletta, Stoppel, Talent, Tarabukin, Uyeno, White, Yazdi, Zhuravlev, Ziegler

E. Carboniferous. Armstrong, Bardasheva, Barrick, Boncheva, Brown, Capinoglu, Dong, Duser, García-López, Hairapetian, Harris, Hisaharu Igo, Hisayoshi Igo, Izokh, Jones, Kozur, Krumhardt, Kurka, Lambert,

Luppold, Matyja, Mawson, Méndez, Merrill, Metcalfe, Nakrem, Norby, Park, Perlmutter, Perri, Piecha, Poole, Purnell, Sandberg, Sanz-López, Savage, Spalletta, Stoppel, Talent, Tarabukin, White, Xia, Zhuravlev, Ziegler

F. Permian. Aldridge, Clark, Duser, Harris, Hisaharu Igo, Hisayoshi Igo, Isozaki, Kozur, Lai, Lambert, Luppold, Mei, Metcalfe, Nakrem, Nicoll, Pei, Perri, Poole, Purnell, Rasmussen, Ruppel, Swift, White, Yao, Zhuravlev

G. Triassic. Aldridge, Budurov, Duser, Harris, Hirsch, Hisaharu Igo, Ishida, Isozaki, Kiliç, Koike, Kolar-Jurkovsek, Kozur, Lai, Luppold, Márquez-Aliaga, Mastandrea, Meço, Mei, Metcalfe, Nakrem, Narkiewicz, Nicoll, Orchard, Paull, Pei, Perri, Petrunova, Plasencia-Camps, Purnell, Rasmussen, Swift, Turisova, White, Xia, Yao, Zhang

H. Palaeobiology. Aldridge, Armstrong, Baldrey, Conway Morris, Dhanda, Donoghue, Girard, Plasencia-Camps, Purnell, Sansom, Smith, Sweet, Wickström, Zhuravlev

I. CAI. Belka, García-López, Königshof, Matyja, Metcalfe, Pondrelli, Repetski, Sanz-López, Sudar, Tarabukin, Zhuravlev

J. Geochemistry. Armstrong, Barnes, Belka, Dopieralska, Nowlan, Ruppel, Savage, Trotter

RESEARCH REPORTS

Guillermo L. Albanesi (Argentina). I continue working on diverse aspects of conodont faunas from Ordovician basins of western and northwestern Argentina, and other major projects with Argentine and foreign colleagues. Together with Gladys Ortega, we are working on conodont-graptolite biostratigraphic ties to develop a comprehensive biozonal scheme for the Ordovician System of Argentina, with particular interest in the correlation of inter-series and inter-stage global boundaries. Currently, I'm working with Stig Bergström in The Ohio State University, as Fulbright scholar, on a project entitled: Conodont Paleobiogeographical Co-evolution of the Argentine Precordillera and the Marathon Area of Texas in the Ordovician Period. I'm also involved in the organization of "9th International Symposium on the Ordovician System, 7th International Graptolite Conference, and Field Meeting of the Subcommittee on Silurian Stratigraphy" to be held in

San Juan City, western Argentina, August 18-21, 2003 (see web site: <http://www.cricyt.edu.ar/2003.htm>).

Richard J. Aldridge. Although administration continues to dominate my schedule, I have managed to get a short paper on Llandovery conodonts from SW Wales submitted for publication. I have also made some progress on projects involving the Permian-Triassic conodont turnover (with Lai Xulong, Mark Purnell and Andrew Swift), the inter-relationships of complex conodonts (with Phil Donoghue, Mark Purnell and Zhang Shunxin), Silurian ozarkodinid phylogeny (with Lennart Jeppsson) and Silurian conodonts from China (with Wang Cheng-yuan). Highlight of my year was the discovery of a bedding-plane assemblage in the late Ordovician Soom Shale of South Africa that is not a *Promissum*, but an *Icriodella* or near relative; this will be unveiled at the ECOS VIII meeting in Toulouse.

Howard A. Armstrong. Work in 2001 has focused around projects on euconodont palaeobiogeography (papers in press); growth, heterochrony and life strategies in gnathodid euconodonts; and the environmental and biological impact of the end Ordovician glaciation at high latitudes. Chemical work continues and has expanded into radiogenic isotopes from conodonts.

Gabriella Bagnoli. My research on Ordovician conodonts from Öland continues and conodont successions are being compared with acritarch and chitinozoan associations. A study of Ordovician conodonts from Spain is in progress in co-operation with G. Sarmiento.

Abigail Baldrey. I have started a PhD at the University of Birmingham looking at the origin of complex conodonts and the phylogenetic relationships of basal prioniodontids. The project is supervised by Paul Smith, Phil Donoghue and John Repetski.

Igor A. Bardashev. I am actively working on Silurian and Devonian conodonts and stratigraphy of Central Asia.

Nina P. Bardasheva. I am actively working on Carboniferous conodonts from Central Asia.

Chris Barnes. I continue to complete recent field-based Lower Paleozoic conodont studies in the Canadian Cordillera. Detailed platform to basin transects have been sampled in the southern, central and northern Rocky Mountains (with Leanne Pyle as current PDF). Several papers and a major monograph have appeared recently, are in press or are in preparation. Shunxin Zhang is completing her Research Associate project using my extensive conodont database to relate conodont biostratigraphy, biofacies and biogeography to the pattern of eustasy and tectonism that affected northern Laurentia in the early Paleozoic. We have completed a major taxonomic work (J. Pal. Memoir 57, March 2002) on undescribed Early Llandovery conodonts from Anticosti Island, Quebec. Other papers in press deal with their paleoecology and the response of the conodont communities to eustatic change; another paper is nearing completion on cladistic analyses and another with Susanne Pohler on biofacies changes across the island within the Gun River Formation. Jianhua Zhang completed a PDF with a paper now in press on the Ordovician conodonts from the Stokes Siltstone, Amadeus Basin, Australia. David Jowett completed his M.Sc. thesis on the well-preserved Llandovery to lower Ludlow conodont faunas of the Cape Phillips Formation (slope facies), Arctic Islands. Work completed, nearing completion or in process includes: Ashgill conodonts (Whitland section, South Wales) with Annalisa Ferretti; Nd isotope work (with Cindy Wright and Stein Jacobsen, one paper in press, one in preparation).

James E. Barrick. I spent an enjoyable year working with Peep Männik in Tallinn and in Lubbock, as well as visiting with Lennart Jeppsson in Lund. Our work continues on conodont faunas associated with Silurian episodes and events and on taxonomy of coniform species. I am also still involved with the many taxonomic and biostratigraphic problems of Late Carboniferous conodonts.

Jeff Bauer. I am organizing the Pander Society Meeting in Lexington, Kentucky. I am finishing up research on Joins and Oil Creek conodonts (Ordovician) from southern Oklahoma.

Zdzislaw Belka. I am currently working on Late Devonian conodont stratigraphy in the eastern Anti-Atlas, Morocco. Other projects include studies on REE and strontium isotope chemistry of conodont elements in the Variscan Europe and CAI studies in the Devonian of northern Africa.

Alexander Z. Bikbaev. I am continuing research on conodonts, lithology, biostratigraphy, and facies of Silurian-Devonian deposits of the Urals.

Iliana A. Boncheva. My research on Devonian and Carboniferous conodont taxonomy and biostratigraphy from boreholes in North Bulgaria continues.

Lewis M. Brown. My current work involves Pennsylvanian projects with Carl B. Rexroad and others including Glen Merrill, Tim Lyons, Cammy Bright, and several undergraduate students at Lake Superior State University.

Kiril Y. Budurov. My research is concentrated on the following main topics: continuation of my study on the colour of Triassic conodonts; working on a monograph of the Triassic conodonts of Bulgaria.

Pierre Bultynck. I finished a paper with G. Sarmiento on Arenigian, Pridolian-Early Devonian conodonts from SW Meseta, Morocco. I am continuing work on Emsian to Frasnian conodonts from Southern Morocco.

Senol Capkinoglu. I am working on Late Devonian and Early Carboniferous conodonts, concentrating especially on the Devonian-Carboniferous boundary from the Eastern Taurides and Late Devonian conodonts from the Istanbul Zone of the Pontides.

Ronald R. Charpentier. I am not actively working on conodonts at this time.

David L. Clark. No new conodont research, although I still have one manuscript concerning a unique Permian fauna from northwestern Nevada that needs a little help before publication.

Simon Conway Morris. I maintain my interest in fossil chordates.

Carlo Corradini. I am working on the Silurian and the Lower Devonian of the Carnic Alps and on the Silurian to Lowermost Carboniferous of Sardinia. A project on the tying together of Silurian conodont and graptolite zonations is in progress (with E. Serpagli, Modena, and P. Storch, Prague).

Rosie Dhanda. I have started a PhD at the University of Birmingham, supervised by Paul Smith, Phil Donoghue and John Repetski, on the origin and phylogenetic relationships of the prioniodinid-ozarkodinid clade.

Dong Xi-ping. I am working on Cambrian and Lower Ordovician conodonts from Western Hunan, Eastern Anhui, Western Zhejiang, South China, Eastern Liaoning, North China, and Southern Xinjiang, Northwestern China, as well as on subsurface conodonts

of Cambrian, Ordovician and Carboniferous age from Liaohé Basin, North China.

Philip C. J. Donoghue. Over the past twelve months I have been working on a number of projects. The most relevant is an attempt to resolve the interrelationships of complex conodonts using cladistic methodology (in collaboration with Mark Purnell, Dick Aldridge & Zhang Shunxin). This builds on the new homology scheme for conodonts that was published with Mark and Dick in *Journal of Paleontology* in 2000. This work is now finished and is currently being written up for publication. At the same time, Walt Sweet and I have reviewed the 'past, present and future' of conodontology for the 75th anniversary issue of *Journal of Paleontology* (Sweet & Donoghue 2001) which includes Walt's hypotheses of the interrelationships of conodonts synthesized and transformed into a cladogram - I will be using this as the basis for testing Walt's hypotheses using the new cladistic datasets. I have also been working with Dong Xiping of Peking University on the histology and interrelationships of Cambrian proto-, para- and euconodonts, as well as fossil embryos from Xiping's conodont collections. Xiping visited our Birmingham lab during Nov-Dec 2000 and we are currently applying to fund another study visit for summer 2002. While work on conodonts has been progressing, I have also been working on synthesizing early vertebrate evolution (including conodonts) in terms of cladistic biogeography (Smith, Donoghue & Sansom in press), and the quality of the fossil record (for a symposium on molecular clocks and the fossil record, organised by myself and Paul Smith), the interrelationships of another problematic vertebrate group, the thelodonts (Donoghue & Smith 2001), and the molecular basis of patterning the visceral and dermoskeleton in all vertebrates. I have also published papers on the cladistic relationships of *Palmatolepis* (Donoghue 2001a), the functional basis of microstructural variation in conodont enamel (Donoghue 2001b), and the importance of conodonts to understanding the early skeletal evolution amongst vertebrates (Donoghue & Aldridge 2001). Next year looks likely to be just as productive, organising and presenting in a symposium on methods of phylogenetic reconstruction (Lyell Meeting 2002), and a symposium on the quality of the conodont fossil record as part of ECOS VIII (with Mark Purnell). I'd best get back to work!

Jolanta Dopieralska. I am currently working on REE and strontium isotope chemistry of conodont elements in the Variscan Europe. The purpose of the project, which constitutes my PhD study, is the reconstruction of the seawater geochemistry and circulation in the Variscan Sea during the Late Devonian.

Daniel Drygant. I am working on the *Icriodus* biostratigraphy of the Lower-Upper Devonian from West Ukraine. I have published 4 papers on the Palaeozoic stratigraphy, geology and palaeontology (Hyalolitha, Trilobita) of West Ukraine.

Svetlana V. Dubinina. I am actively working on Early Ordovician, Silurian and Late Devonian conodonts in chert/basalt and chert/tuffaceous assemblages of the Southern Urals.

Michiel Dusar. I continue to work on regional geology of North Belgium, including revision of the

lithostratigraphy of the Upper Carboniferous in Belgium and of Permian to Jurassic lithostratigraphy in the Campine basin, and supervise an Ms.Sc. thesis on Visean turbiditic limestones. A biography of Jos Bouckaert, pioneer conodont worker on the Namurian and Famennian of Belgium will be published shortly in *Geologica Belgica*, vol. 3 / 3-4.

Jerzy Dzik. A manuscript on Frasnian conodont apparatuses has been submitted and is now in peer review. I am now working on the Famennian.

R. L. Ethington. I continue to study faunas from the Lower and lower Middle Ordovician of the Great Basin. An ongoing study with Paul Myrow, John Taylor, Jim Miller and others is devoted to Upper Cambrian through Lower Ordovician faunas in the Rocky Mountains from New Mexico to Montana. Work also continues on a number of smaller projects for which Ordovician conodonts have been accumulated over a long period of time, particularly from the Ouachita Mountains of west-central Arkansas and from the dreary dolostones of the Ozark region of southern Missouri and northern Arkansas.

Annalisa Ferretti. A preliminary report on Late Ordovician conodont faunas (with special attention to a Hirnantian association) from the Austrian Carnic Alps was recently published (with Hans Peter Schönlaub) and new sampling there was completed. Several Late Ordovician sections in Brittany (NW France) are currently under investigation (with Enrico Serpagli). Work on the Whitland Section (South Wales) with Chris Barnes is in progress. An Early Ordovician association from Montagne Noire will soon be described (with Enrico Serpagli).

Terry Furey-Greig. I continue to work part-time on previously neglected, Late Ordovician-Early Silurian occurrences (autochthonous and allochthonous) in easternmost Australia with Ruth Mawson, Peter Molloy, Andrew Simpson and John Talent (all on conodonts), and with Misaki Umeda who is working on radiolarian faunas from the matrix of such occurrences.

Susana García-López. I am working on conodonts from the Silurian to lower Carboniferous, mainly focusing on biostratigraphy and biofacies topics. I also continue active work on projects dealing with CAI research in the Cantabrian Zone and Pyrenees (NW and NE of Spain). I will be busy for a time preparing ECOS VIII and learning the English language.

Hossein Gholamalain. As part of my studies on Late Devonian conodonts of central Iran, I am working on some early Famennian conodonts from NE of Efsahan, which may be published in *Acta Palaeontologica Polonica*. My Ph.D project on the Frasnian/Famennian boundary in central Iran is progressing successfully. Most of my conodonts near the boundary are of shallow water faunas, and deep water conodonts (*Palmatolepis*, *Ancyrodella*) are very rare or absent in my samples.

Catherine Girard. I am actively working on Devonian conodonts across the Kellwasser crisis and the *annulata* event. My work is especially focused on size and shape analyses of conodonts in order to assess conodont evolutionary response to the environmental variations.

Shape (outline) analysis of Frasnian conodonts continues with Gilbert Klapper.

Sofie Gouwy. I am actively working on conodonts of the Middle Devonian. I am using Graphic Correlation to correlate Middle Devonian sections of the Ardennes (Belgium) based on conodonts, brachiopods and corals.

Vachik Hairapetian. I continue to work on Late Devonian and Early Carboniferous fish microremains and conodonts from several sections in north and central Iran. A long paper on Famennian chondrichthyans from North Gondwana (with Michal Ginter and Christian Klug) has been submitted to *Acta Geologica Polonica*. Iranian, Moroccan and Algerian shallow-water chondrichthyan assemblages provided several new taxa and important data regarding taxonomy, palaeoenvironment and palaeogeography of chondrichthyes.

Jack C. Hall. I continue to work very slowly on conodont research. I have been revising a manuscript on bacteria found on Ordovician conodonts. Hopefully it will be done in the spring.

Anita G. Harris. I am still involved in studies of very Late Cambrian through Triassic conodonts and the rocks that contain them in the North American Cordillera (chiefly in Alaska, Nevada, Arizona, and northern Mexico).

Francis Hirsch. I have continued my study of Triassic conodonts from Japan in collaboration with Keiduke Ishida. We seek to unravel more of the taxonomic problems of Triassic conodonts, their zoo-palaeogeography, ecology and provinciality.

Hisaharu Igo. I am working on Carboniferous to Triassic conodonts in Japan.

Hisayoshi Igo. My research on Devonian-Permian conodonts in Japan and Triassic conodonts in Thailand continues.

Keisuke Ishida. I am working on Triassic conodonts from the accretionary complexes in Japan, collaborating with Francis Hirsch. We have described the conodonts from the latest Carnian - Middle Norian pelagic limestone and Late Norian - Rhaetian bedded chert-succession at Hisaidani, southern Chichibu Belt, Shikoku, SW Japan (Ishida & Hirsch, 2001). In the paper, we discuss the taxonomy of the conodont genera *Metapolygnathus*, *Ancyrogondolella*, *Mockina* and *Misikella*, and describe three new species: *Mockina sakurae*, *M. shamiseni* from the Middle Norian and *M. hisaidaniensis* from the Late Norian. We are also studying the newly named Izanami plateau, which is the origin of Triassic pelagic limestones incorporated in Jurassic and Early Cretaceous accretionary complexes of Japan (Hirsch & Ishida, 2002 in press). The three new species are provincially characteristic of this pre-accretionary plateau from which the rocks of Hisaidani were derived. I am also interested in the Permian of SW Japan.

Yukio Isozaki. I am still working on the Permo-Triassic boundary mass extinction. Recent progress includes the finding of a continuous Guadalupian-Lopingian sequence in paleo-atoll limestone in Japan. As this limestone originated from the mid-superoceanic

environment of Panthalassa, the biotic turnover recognized in this section has a profound implication for the global environmental change across the G-L boundary.

K.S. Ivanov. I continue to study conodonts, tectonics and biostratigraphy of Ordovician, Silurian and Devonian deposits of the Urals; I also study conodonts from cherts, including those from the Uralian Superdeep Borehole.

Nadya G. Izokh. I am actively studying conodont collections from the Ordovician (Tuva and Salair), Silurian (Gorny Altai), Devonian (Tuva, Altai and Salair) and Lower Carboniferous (Salair).

David I. Johnston. I have no conodont research to report other than that *Palaeontographica Canadiana* 19, the taxonomic monograph on Famennian conodonts from the Palliser Formation and Wabamun Group of western Canada, has been published (see publications).

Gareth Ll. Jones. I continue to work actively on Dinantian conodonts from Ireland, mostly for commercial biostratigraphy. I also maintain an interest in ichthyoliths.

Ali Murat Kiliç. I am continue my PhD research on Triassic conodonts from Western Taurids and Kocaeli Peninsula with Profs Gedik and Onder.

Gilbert Klapper. I am continuing with all the projects listed in the Pander Society Newsletter for 2001 (p. 9).

Mark Kleffner. I continue to work on my joint project with James Barrick, a revision of a conodont-, graptolite-, and chitinozoa-based Silurian chronostratigraphy. Figures and tables are nearly done and the manuscript is progressing at a pace that may actually result in a submission in 2002 (after close to four years of revision). I also continue to study the Lower Silurian of Ohio and Kentucky, with particular emphasis on intra- and interformational discontinuities that may also represent unconformities associated with global sea-level falls. Finally, I am beginning a study of Silurian conodont events of North America and their relationship to fluctuations in ocean chemistry and eustasy (with James Barrick and Matt Saltzman).

Toshio Koike. I am continuing work on the reconstruction of apparatuses of Triassic Gondolellidae and Ellisonidae in Japan and preparing a manuscript on *Xaniognathus* and *Neospathodus*.

Tea Kolar-Jurkovsek. I am continuing to study Triassic conodonts of Slovenia.

Peter Königshof. My recent conodont-research is focused on two aspects: a) the investigation of microboring organisms (e.g. fungi) in Palaeozoic conodont elements and b) CAI in southern France (Montagne Noire).

Heinz Kozur. My work on Permian and Triassic conodonts (world-wide), their taxonomy, stratigraphic importance, facies dependence and palaeogeography continues. In addition, I work on Cambrian to Carboniferous conodonts, mainly from Turkey.

Andrea Krumhardt. I am still mired in the Mississippian part of the Brooks Range Lisburne Group with no sign of

the Pennsylvanian in sight. Spent a short 2 weeks in the Brooks Range last summer collecting more (undoubtedly) Mississippian samples from various localities near Porcupine Lake. Thinking of opening a "Syncladognathus R Us" store to boost research funds. The rest of this past year was spent looking at Quaternary pollen from various sites around the state and Canada, determining the percentage of fossil biogenic silica from various Alaskan lakes, and learning how to extract collagen from modern and fossil bone for isotope analysis and radiocarbon dating (a procedure guaranteed to give you grey hair—just what I need).

Mira T. Kurka. I am presently teaching paleontology, micropaleontology and general geology at Great Basin College, and am still interested in Carboniferous conodonts.

Lai Xulong. Although I spend much of my time on the study of ancient DNA (including the giant panda, mammoths and hominid bones), I am still working on Permian and Triassic conodonts from South China, and Famennian conodonts from the volcanic-bearing strata of the Qinling area, northwestern Sichuan. I am currently at the University of Leicester for one year undertaking a Royal Society supported project with Dick Aldridge, Mark Purnell and Andrew Swift; we are using all published information on Permian to mid-Triassic conodonts to document conodont phylogeny through this interval using cladistic methods.

Lance L. Lambert. I am continuing the Pennsylvanian and Permian projects mentioned in the last newsletter. The move to UTSA has kept me quite busy, but now that I am (almost) settled in, things should progress nicely.

Stephen A. Leslie. I am continuing research on the conodont biostratigraphy, sequence stratigraphy, and event stratigraphy of the Middle and Upper Ordovician on the southern margin of the Ozark Dome in Northern Arkansas, using conodont graphic correlation as a means to determine the timing and duration of unconformities. One goal of this research is to provide insight into whether some of the sea level change recorded in Middle and Upper Ordovician rocks in Northern Arkansas was caused by local uplift of the Ozark Dome, or if the sea level change was regional to eustatic in nature. Some of my attention this year has been on projects other than Ordovician conodonts. I am working with Loren Babcock on aspects of the Cambrian "explosion" and with Andy Karam on the effects of background radiation on the evolution of early life.

Anita Löfgren. I am continuing research on lower Llanvirn conodonts and sections in Sweden as well as several projects in cooperation with colleagues. Together with Viive Viira and two other female co-authors I have just published a paper on conodonts from the N Estonian Lower-Middle Ordovician Mäekalda section (Viira et al. 2001). Cooperation with Viive continues on the early Arenig faunas of Cape Pakri, N. Estonia. A manuscript written together with Tatiana Tolmaceva on *Drepanodus arcuatus* and related species has been submitted and a paper together with Zhang Jianhua on apparatus reconstructions and element morphologies in *Lenodus - Eoplacognathus* is being finished.

Friedrich W. Luppold. Investigations of Middle to Upper Devonian conodonts from the Harz Mountains

are ongoing. Upper Carboniferous conodonts from the Southern Alps (Carnic Alps) are also being studied. Some samples from Peninsula Thailand, including Carboniferous to Triassic limestones, are under investigation as are Triassic conodonts of the German Muschelkalk.

Peep Männik. I am actively working on the evolution, ecology and taxonomy of Ordovician and Silurian conodonts from the Baltic, Arctic regions and Siberia, and on conodont-based high-resolution stratigraphy. Several joint studies continue: composition, distribution and evolution of Silurian conodont faunas (with Lennart Jeppsson); comparing Upper Ordovician- Lower Silurian carbonate platforms in Estonia and the Great Basin: a test of the synchrony of sequences and faunal changes (with Mark T. Harris from the Wisconsin- Milwaukee University and Peter M. Sheehan from the Milwaukee Public Museum); evolution and high-resolution stratigraphy of the Early Palaeozoic sedimentary basins in northern Baltica and Siberia palaeocontinents (with colleagues from Lund, Vilnius, St Petersburg, Syktyvkar, Ukhta and Novosibirsk); taxonomy, distribution and evolution of *Walliserodus* (with James E. Barrick).

Ana Márquez-Aliaga. I am actively working on Triassic conodonts from Spain.

Adelaide Mastandrea. I am actively working on Norian-Rhaetian conodont biostratigraphy from Calabria and Basilicata (Southern Italy) and I continue to work on Ladinian-Carnian conodonts from the Dolomites (Northern Italy).

David Mathieson. I am continuing work on the numerous shallow-water carbonate intervals in the predominantly clastic Late Silurian-Early Devonian sequences on the eastern flank of the Darling Basin of western New South Wales.

Hanna Matyja. I am concerned with Middle to Upper Devonian and Lower Carboniferous conodont event-stratigraphy, extinctions, palaeoecology and taxonomy, as well as with CAI studies. I am currently working on Middle Devonian conodonts from the northern part of Poland and the Frasnian/Famennian boundary interval in the South Polish shelf basin.

Ruth Mawson. I continue working on various Late Ordovician to Early Carboniferous faunas from eastern Australia and northernmost Pakistan and India with John Talent. A paper with Erich Draganits and Leo Krystyn (Vienna) on Givetian-Tournaisian conodonts from Spiti (India) is in press, as are others with John Talent, Peter Molloy and Andrew Simpson on Pridoli-Emsian conodonts from Nowshera (Pakistan), and with Gary Webster, Chris Maples and M. Dastanpour and Mike Bassett on Carboniferous conodonts from Iran. See also report from Terry Furey-Greig.

Sandy McCracken. I continue to work on Middle Ordovician and Silurian conodonts from various locations in Canada, and Devonian of western Canada.

Selam Meço. My main obligation during 2001 was the study of upper Triassic Conodonts in Albania.

Shilong Mei. I am presently working on Permian and basal Triassic conodonts in collaboration with Charles

Henderson and Mike Orchard. I am also working on GIS.

Carlos A. Méndez. I am working on Carboniferous (Serpukhovian to Gzhelian) conodonts in the Cantabrian Mountains (North Spain). Within a project on the biostratigraphy of upper Moscovian to lower Kasimovian strata, the Las Llacerias Section is producing results that allow us to consider it as a key section in the Carboniferous conodont research of the Cantabrian Mountains. My project on Desmoinesian faunas with Carl Rexroad and Lew Brown continues.

Glen Merrill. I continue to work with Pennsylvanian conodont faunas in SE Ohio and some from the mid-Carboniferous of central Texas. With P.H. von Bitter I continue to work with *Gondolella* and *Diplognathodus*, although progress is slow because of teaching and other duties.

Ian Metcalfe. I continue to work on conodonts from China and Southeast Asia. Chinese work centres mainly on the Permian-Triassic Boundary, and a paper with Bob Nicoll on *Hindeodus* species from the boundary interval is in press with Journal of Asian Earth Sciences. Work on conodonts from Malaysia has been revived, mainly on material sitting on the shelf, and a paper on conodont CAIs in Malaysia is in press with the Courier Forschungsinstitut Senckenberg. A paper on Devonian and Carboniferous conodonts from the Kanthan Limestone of Peninsular Malaysia is also in press with the Proceedings of the International Congress on Carboniferous-Permian, Calgary, 1999, and work is underway on various Permian and Triassic faunas from SE Asia.

Ronald Metzger. I continue to work slowly on multi-element reconstructions of Devonian conodonts from eastern Iowa. Manuscripts on Silurian conodonts and a collaborative project with Brian Witzke on Ordovician conodonts, both from Iowa, are nearing completion.

Giles Miller. I am continuing my collaboration with Tiit Marss (Tallinn Technical University, Estonia) and spent two fruitful weeks in Tallinn bringing together our results from all of the work we have done since 1995. We plan to submit a publication to Palaeontology in the next year, which describes thelodonts from the Wenlock-Lochkovian of the Welsh Borderland and at the same time includes data about the co-occurring conodonts. I have also been out collecting from the Gorstian-Ludfordian boundary stratotype section in the Welsh Borderland.

Peter Molloy. I am continuing work on Middle Palaeozoic material from Chitral (Pakistan) and on the Ireviken Event (earliest Wenlock) at Boree Creek, New South Wales. Concurrently I am working with Ruth Mawson, Andrew Simpson, Terry Furey-Greig and John Talent on a selection of Late Ordovician-Early Silurian occurrences in easternmost Australia.

Suzanne Murray. My conodont activities have been on hold for this year as I have concluded the other aspects of my PhD thesis.

Hans Arne Nakrem. My work has continued on Carboniferous to Triassic faunas of the Norwegian Arctic, both on bryozoans and conodonts. Conodonts

have dated a Moscovian bryozoan bioherm in Svalbard, and this result is in the press in a bryozoan paper. Latest Permian and earliest Triassic conodonts have been found in a Barents Sea drilling core, which I studied together with Hubert Szaniawski (scolecodonts) and Atle Mørk (sedimentology). As in other Permian samples from the north, the number of conodonts was low, but we managed to date the cored interval. We also report on the absence of the genus *Isarcicella* in the Triassic interval. Thus, we question the use of *I. parva* as an index fossil for the base of the Triassic worldwide. New samples have been collected, and this project continues.

Katarzyna Narkiewicz. I am still working on Middle Devonian conodonts from SE Poland (taxonomy, biostratigraphy and biofacies). I have submitted a paper reporting new data on Muschelkalk conodonts from the subsurface of the Polish Lowlands.

Bob Nicoll. I am still working on Permian-Triassic boundary things from China, with Ian Metcalfe. I also have more Permian conodonts from the Canning Basin of Western Australia. Additional samples are just now coming through the acid. Following discussion in Calgary with Godfrey Nowlan, progress may be made with the Silurian of the Carnarvon Basin. There is still the Ordovician to work on.

Rodney D. Norby. All work has been going slow with regards to Silurian and Mississippian conodonts, but I hope to get back to more research in the coming year with several colleagues.

Godfrey S. Nowlan. I am actively working on a number of projects: 1, Conodonts from the Cambro-Ordovician Deadwood Formation in Saskatchewan and North Dakota; paper submitted to Journal Paleontology (with S. Robson) on inarticulate brachiopods and conodonts from Alberta and Saskatchewan; 2, Conodont biostratigraphy and biofacies related to neodymium and carbon isotope signatures (with C. Holmden, University of Saskatchewan) with the objective of tracking sea level on the North American craton during the Middle to Late Ordovician. A manuscript is in press on data from Iowa and Saskatchewan in Geochimica et Cosmochimica Acta (Fanton et al.); the work is being extended to another section in Saskatchewan; 3, Ordovician-Silurian rocky shoreline section on Hudson Bay near Churchill, Manitoba (with Bob Elias and Graham Young). This study involves detailed biostratigraphy as an aid to mapping the rocky shoreline; 4, Working jointly with Oliver Lehnert (University of Erlangen) on a study of clasts in a Tertiary conglomerate on eastern Ellesmere Island; 5, Conodont biostratigraphy of Cambrian to Silurian strata of eastern Ellesmere Island in support of geological mapping by K. Dewing and U. Mayr; 6, three manuscripts have recently been completed on the stratigraphy and biostratigraphy of Cambrian and Early Ordovician strata of autochthonous and allochthonous strata in southern Quebec (cooperative with O. Salad Hersi and D. Lavoie); 7, Paper completed on conodonts from the Sops Head Complex, central Newfoundland (joint with B. O'Brien and B. McConnell); 8, Continuing biostratigraphic service work on Cambrian, Ordovician and Silurian conodonts from all over Canada.

Olga T. Obut. Recently I have completed my PhD thesis on a micropaleontological study of the Lower Palaeozoic

siliceous rocks in the Altai Mountains area; with special reference to the evolution of the Palaeo-Asian Ocean. Now my main interests are conodonts from the transitional Upper Cambrian to Lower Ordovician siliceous deposits of the Gorny Altai.

Mike Orchard. I continue my primary research on all aspects of Triassic conodonts: biochronology, multielement taxonomy, biogeography, paleoenvironments, multidisciplinary approaches and data intercalibration. I also work on the late Paleozoic conodont biostratigraphy and paleogeography of Cordilleran terranes.

Soo-In Park. My research on Middle Carboniferous conodonts from the Korean Peninsula continues.

Anatoli Pashnin. I have just started to study Ordovician-Silurian conodonts from the northern Urals. Last summer I collected my first samples across the Ordovician-Silurian and Llandovery-Wenlock boundaries from the Kozhym River sections.

Rachel K Paull. I am retired (ex-Lower Triassic) but still interested in Pander happenings. My specimens eventually will be placed in the repository at U. of Wisconsin-Madison.

Pei Fang. I am working on the Permo-Carboniferous conodonts of the north part of Henan, including conodont zones and their correlation locally and internationally.

Ian Percival. I have been quite active in conodont research during the past year, with four papers published spanning faunas of Early Ordovician to Early Devonian age, primarily from the Lachlan Fold Belt of central New South Wales. Current research continues on conodont faunas from this region, particularly as part of a productive collaboration with Yongyi Zhen (Australian Museum, Sydney) and Barry Webby (Macquarie University, Sydney). We have been concentrating on conodonts from island arc limestones in the northern Molong Volcanic Belt, with a paper in press (CFS) on the Early Ordovician fauna of the Hensleigh Siltstone, and others underway on Darriwilian conodonts from the Oakdale Formation and Warringa Limestone. Further afield, we are describing an Early Ordovician fauna from Mt Arrowsmith in the far west of the state. My research on conodonts entombed in cherts of Darriwilian age intensified in 2001; a paper (with Pat Lyons, AGSO, Canberra) on a fauna from the Jindalee Group in southern NSW has just been submitted, while continuing biostratigraphic studies on *Pygodus* spp and its associates in cherts from the nearby Goulburn region are producing satisfying results. Currently, several jointly-authored papers with emphasis on Ordovician conodonts are in preparation for conferences in mid-2002, mainly for presentation at the First International Palaeontological Congress at Macquarie University in July.

Barry Perlmutter. I am working with James O. Brown to continue to collect conodonts from the Montebello Member of the Mahantango Formation in Pennsylvania.

Maria Cristina Perri. I am continuing to work on Devonian-Early Carboniferous sequences of the Southern Alps in collaboration with Claudia Spalletta. A paper considering correlations within the Upper

Devonian is in preparation; this will provide a standard for the Famennian of the Carnic Alps. I am still involved in research on Permian-Lower Triassic conodonts from the Southern Alps and from sequences in Chitral (north-western Pakistan). A manuscript (with Enzo Farabegoli), reviewing conodont biostratigraphy and taxonomy in relation to the Permo-Triassic boundary in the Southern Alps, has been accepted for publication in the AUSCOS-2 volume.

Lyudmila V. Petrunova. My research is concentrated on taxonomy, evolution and biostratigraphy of Triassic conodonts from Bulgaria. I work with Prof. Kiril Budurov.

Matthias Piecha. I am working on Devonian and Carboniferous conodonts from the Rhenish Massif. I continue investigations on low temperature (CAI 1-2) Middle and Late Devonian conodonts from the Paffrath Syncline (Bergisches Land, West Germany) and I continue investigations on conodont biofacies and hiatuses around the Frasnian/Famennian boundary on the Rhenish shelf of northwestern Germany.

Pablo Plasencia-Camps. I've just started a Master's Thesis on Triassic conodonts from Spain. Ana Marquez-Aliaga and Nacho Valenzuela-Rios are my research directors, with additional supervision from Francis Hirsch. I'm a biologist and intend to study biological aspects of conodonts. Also I'm working on a revision of the Triassic genus *Pseudofurnishius*.

Monica Pondrelli. I am investigating CAI trends in the Carnic Alps, and comparing these data with other organic and inorganic maturity indices.

Forrest G. (Barney) Poole. I am actively working on Middle Ordovician-Upper Mississippian carbonate-shelf stratigraphy in Sonora, Mexico, with Ricardo Amaya-Martinez, William Page and Anita Harris, utilizing conodont ages determined by Harris. In addition, I am actively working on Ordovician-Lower Permian ocean-basin stratigraphy within the Sonora allochthon in central Sonora, utilizing conodont ages determined by Harris, as well as graptolite and fusulinid ages determined by other paleontologists. Also, I am actively working on Devonian and Mississippian stratigraphy and sedimentation in the Antler foreland basin of Nevada with Charles Sandberg, utilizing conodont faunas and zonation determined by him.

Mark Purnell. In addition to a few rather fishy projects (a paper on feeding in heterostracans was published recently, and a detailed investigation of the relationship between tooth wear, niche differentiation and speciation in sticklebacks continues) conodont work remains as exciting as ever. Work on conodont relationships with Phil Donoghue, Dick Aldridge and Zhang Shunxin has progressed to the point where it may even be published (well, submitted) before the next edition of this newsletter hits the internet, and a project on the relationships of Permian and Triassic conodonts (with Dick, Andy Swift and Lai Xulong) is also moving in the right direction (although the "delights" of Permian and Triassic conodont taxonomy are proving to be rather more "fun" than I anticipated!). I am also enjoying collaborative projects with various colleagues, focussing on natural assemblages and their implications for architecture, homology, function, and evolution. These

include Ordovician *Paracordylodus* (with Tania Tolmacheva, just published in *Palaeontology*) and *Phragmodus* (with John Repetski), a Llandovery assemblage from Scotland (with Mark Williams of the British Geological Survey), superb Wenlock assemblages from Ontario (with Peter von Bitter), and Carboniferous *Idioproniodus* (also with PvB). After a prolonged gestation, a manuscript on *Taphrognathus* and its biostratigraphic potential is finally in press (*Journal of Micropalaeontology*, with Peter von Bitter and Eric Groessens). This year I am particularly looking forward to the evening of June 23rd: the symposium on Bias and Completeness in the Conodonts Fossil Record that Phil Donoghue and I are organizing at ECOS will have finished!

Leanne Pyle. I am continuing my research on Lower Paleozoic conodonts as a postdoctoral fellow, working with Chris Barnes at the University of Victoria. In 2001, I completed research on the conodonts from a platform-to-basin transect (Ordovician to Devonian) in northeastern British Columbia, Canada. Currently, I am working on a collection of Early and Middle Ordovician conodonts from the southern Rocky Mountains, British Columbia.

Jan Audun Rasmussen. I am currently working on Permo-Triassic conodonts from the boundary beds in central and northern East Greenland together with Svend Stouge, Lars Stemmerik and Stefan Piasecki (Geol. Survey of Denmark and Greenland). Although most of my working time these days is concentrated on foraminifera, I will continue to work on Ordovician-Silurian conodonts from eastern North Greenland (with Paul Smith, Birmingham) and Ordovician conodonts from the Scandinavian Caledonides.

John E. Repetski. My work continues chiefly on Ordovician biostratigraphy, but with ongoing efforts on all aspects of Cambrian and Ordovician conodonts, some other phosphatic problematica, and various biostratigraphic problems in other stratigraphic intervals. Most of the work is in the US Appalachians (e.g., CAI maps for energy projects) and Midcontinent (mapping and karst studies), with additional work in other parts of North America and elsewhere (related to mapping, minerals, structure, and conodont systematics). Some new finds in the central and northern Appalachians are helping clarify longstanding problems in structurally complex and metamorphic terranes. Most of these efforts are collaborative with Panderers and other good colleagues.

Stephen C. Ruppel. I am continuing to work with Eric James (University of Texas, Austin) and Lance Lambert (University of Texas San Antonio) on an integrated study of sequence stratigraphy, biostratigraphy, and strontium isotope chemostratigraphy of the Leonardian in Texas.

Charles A. Sandberg. Current interests are Middle to Late Devonian and Mississippian conodont event stratigraphy, extinctions, biofacies, paleoecology, paleobiogeography, and taxonomy. In collaboration with Jared Morrow and Anita Harris, I am gathering conodont evidence on deeper water crater-fill channels, and based on older, blast-fallout conodont faunas, for the depth of crater excavation of the Alamo Impact in Nevada. For a geologic map with Barney Poole, I am completing a study of conodonts from the Devonian

platform-to-basin transitional sequence in the southern Hot Creek Range, Nevada. I am continuing preparation of revised late Middle Devonian through Late Devonian range charts in collaboration with Willi Ziegler, Roland Dreesen, and Jared Morrow. With Charlie Mason and Dave Work, I am preparing a GSA talk on Early Mississippian conodonts and ammonoids of the Borden Delta complex, northeastern Kentucky and southern Ohio.

Ivan Sansom. I am continuing work on early vertebrate faunas from the Ordovician of North America (with Paul Smith); the palaeobiology of Silurian coniform conodonts; and the histology of early vertebrate hard tissues.

Javier Sanz-López. My research continues on the diagenesis-metamorphism transition in the Cantabrian Mountains and, now, the Pyrenees. Some studies of Silurian to Carboniferous conodonts are to be published.

Graciela N. Sarmiento. I continue working on Ordovician and Silurian conodonts from Spain, Portugal, Morocco and Turkey.

Norman Savage. I am continuing to work on Late Devonian conodonts from Alaska and northern Russia, including the geochemical anomalies across the F/F boundary, and Early Devonian conodonts from Alaska and Northern California. Also, with PhD student Alberto Perez-Huerto, I have started to look at variations in conodont and brachiopod assemblages across cyclic deposits in the Pennsylvanian of Nevada.

Enrico Serpagli. I am working on Late Cambrian and Early-Late Ordovician conodont assemblages, mostly from Southern Europe, as well as on Silurian material from Bohemia (recently re-sampled) and the Carnic Alps.

Tom Shaw. I am continuing studies of Lower and Middle Ordovician conodonts in the Illinois Basin.

Andrew Simpson. A number of conodont related projects were advanced during 2001. A manuscript on the Siluro-Devonian conodont fauna from the Nowshera Limestone with colleagues from MUCEP has been submitted. A solo effort on a new Late Silurian subspecies of *Ozarkodina* has been submitted. Both of these will hopefully appear in the AUSCOS2 Volume early in the new year. A short paper documenting Late Ordovician faunas (among others) from the lost carbonate platform of the Georgetown region in north Queensland has also been submitted with MUCEP colleagues. A paper documenting Silurian faunas from a subsurface intersection in the vicinity of the Cadia Mine in mid western New South Wales and including graptolite and brachiopod data has been submitted to the Linnean Society of NSW with coconspirators Barrie Rickards, Ian Percival and Tony Wright. Work continues on a detailed comparison of Late Silurian Lau Event faunas from the Jack Limestone and Gotland with Lennart Jeppsson. Meanwhile, the acid baths at Macquarie continue to churn out engaging Silurian faunas from a range of Australian localities for a variety of MUCEP projects.

Paul Smith. Work has continued on a variety of conodont related topics together with other early

vertebrate research. A paper on the apparatus architecture of *Cordylodus* was completed with Phil Donoghue and John Repetski, and a new project initiated, as part of a larger British Geological Survey programme, to produce a high resolution stratigraphy of the Cambro-Ordovician of NW Scotland.

Maria P. Snigireva. Continues to research Silurian-Devonian conodonts of the Urals (biostratigraphy and taxonomy).

Claudia Spalletta. I continue to work on Early Devonian to Lower Carboniferous conodonts of the Carnic Alps (Southern Alps, Italy) in collaboration with M. Cristina Perri. Jointly with Enzo Farabegoli, Gil Klapper, M. Cristina Perri and Monica Pondrelli some new sections at the Frasnian/Famennian boundary are under study. I also started a collaboration with Raimund Feist on the Famennian conodont biostratigraphy of the Montagne Noire.

Dale Sparling. I've been inactive except for participation in the Bioevent Symposium in Normal, Illinois last Spring and picking microvertebrates to send to Sue Turner.

Dieter Stoppel. I hope to finish the volume on the Mississippian in Germany (with 30 co-authors) in 2002. I will continue to prepare a publication on the stratigraphy of the Devonian and Mississippian in the north-eastern part of the Rheinisches Schiefer-gebirge. The stratigraphy is based on conodont faunas.

Milan N. Sudar. Last year I was not too active in the investigation of conodonts, so I have not yet finished papers about the Late Carboniferous conodonts and Triassic conodont metamorphism. I have been working on investigations of the ophiolites of the Vardar Zone and Dinaridic Ophiolite Belt, as well as on the correlation of the Late Variscan-Early Alpine evolution of the Jadar Block (NW Serbia) and "Bukkium" (NE Hungary) terranes.

Walt Sweet. I continue (slowly) adding to my evolving, graphically assembled high-resolution network for the North American Ordovician. The Sweet-Ethington-Harris report on the Whiterockian, mentioned last year, continues to languish in editorial hands, but the Sweet-Donoghue survey of conodont systematics survived editorial review and has appeared in the Journal of Paleontology. Guillermo Albanesi shares my OSU office, microscope and conodont library this year and we have good, conspiratorial conversations about Ordovician conodonts and stratigraphy.

Andrew Swift. A joint project has roused me from my rather dormant state regarding Permian and Triassic conodonts, and this coming year should see more activity.

John Talent. I am continuing work on various Late Ordovician-Early Carboniferous faunas from eastern Australia, India and Pakistan, interleaved with organizational work on IGCP 421 and the First International Palaeontological Congress (IPC-2002) in Sydney in July 2002.

Vladimir P. Tarabukin. I'm continuing to work on Ordovician, Devonian and Lower Carboniferous

conodonts, and to investigate the biostratigraphy and biofacies of Ordovician of the Yakutia (N-E Asia). I am also, with A. N. Reimers and I. V. Nefedova, busy with conodonts from xenoliths in kimberlite pipes on the Siberian Platform. I also undertake CAI studies in Ordovician-Carboniferous rocks in some areas of N-E Asia.

Tatiana Tolmacheva. I'm continuing studies on: 1) Ordovician conodont biostratigraphy and biofacies from the carbonates of the western part of the European platform (St. Petersburg region); 2) the taxonomy of Cambro-Ordovician conodonts from ribbon cherts in Central Kazakhstan; 3) the reconstruction of a coniform conodont apparatus (*Decoriconus* sp.) based on observation of several natural clusters.

Julie A. Trotter. I have temporarily moved (Oct 2001-Oct 2004) to The Australian National University (RSES) to pursue a PhD on conodont geochemistry, under the supervision of Malcolm McCulloch, Chris Barnes and Bob Nicoll. My aim is to assess the suitability of conodonts to characterise palaeoseawater chemistry, and identify the most suitable (and reliable) geochemical techniques that can be used collectively to determine global physico-chemical trends during intervals within the Ordovician and Permian. The focus will be on single conodont elemental systematics, utilizing a combination of technologies including in-situ laser ablation and thermal ionisation mass spectrometry.

Katarina Turisova. I'm a student of paleontology in the Faculty of Sciences, Comenius University, Bratislava, Slovakia. My thesis work will be focused on the application of conodonts in some problematic Triassic units in the Western Carpathians.

Tom Uyeno. I am still involved in three subsurface Devonian studies: 1) upper Givetian-lower Frasnian of southern Alberta (with Jack Wendte); 2) Frasnian-lower Famennian of northern Ontario (with Gil Klapper); and 3) Eifelian-Givetian of southwestern Ontario (with Fred Rogers).

Peter von Bitter. Since the discovery, last summer, of abundant, articulated Silurian conodont apparatuses in lagoonal sediments of southern Ontario, I have (with Mark Purnell) been trying to understand and document this superb new material. Nudging toward completion, is a study with Rod Norby and Rob Stamm on the apparatus of *Lochriea commutata*, based on both bedding plane assemblages and conodont clusters (the latter recovered by Rob Stamm). Also, with Glen Merrill, I am working to complete our revision of *Gondolella*; the rediscovery of Stauffer and Plummer's Texas types of *Gondolella* has allowed us to restudy and redocument this material, and we are preparing a short manuscript on the anticipated revisions. Finally, together with Glen Merrill and Rob Stamm, I am studying the taxonomy, distribution, and apparatus of *Diplognathodus*.

Viive Viira. I am currently working on Wenlock-Ludlow boundary interval conodonts, which on Saaremaa Island, Estonia are represented by a near-shore fauna with *Ctenognathodus* and *Ozarkodina*. I also continue cooperation with Anita Löfgren on the early Arenig conodont fauna of Pakri Cape, North Estonia.

Jesse Garnett White. I am currently working on Permian-Triassic conodonts of the San Juan Islands in Western Washington State. I have also worked with Devonian, Mississippian, and Pennsylvanian conodonts under the guidance of my major professor.

Linda Wickström. I am now a second year PhD student at the University of Birmingham. My PhD project focuses on conodont evolution, extinction events and ocean cyclicity. So far I have used cladistic analysis to resolve the relationships within the Silurian genus *Kockelella*. The phylogenetic relationships of other lineages spanning the Ordovician/Silurian boundary are being studied as well.

Xia Feng-Sheng. In the last year, I have completed typescripts of my two papers on Triassic conodonts: Triassic conodonts across the base and top of Middle Triassic Series of Mont Jolmolungma region in southern Tibet, China and Early Triassic conodonts from Qangtang Basin, northern Tibet, China. In addition, the typescript of another paper, *Polygnathus communis gacahuensis* Xia & Chen 2000, a potential index conodont for the Tournasian/Visean boundary, has been submitted for publication. My current research is on Cambrian and Ordovician conodonts from North China.

Yao Jianxin. My current research is on Permian and Triassic conodonts from China.

Mehdi Yazdi. I can report that: 1) Babak Sedghi has completed his research on the Khoshyielagh section (East Alborz, northern part of Iran). According to his work the age-range of the Khoshyielagh section is from Givetian to Famennian. 2) Leila Karimi completed her thesis six months ago. Her conodonts confirm the presence of Late Givetian to Famennian strata in the Mighan section (East Alborz, northern part of Iran). Goniatites of the *expansa* zone (Famennian) were recovered near the top of this section for the first time. 3) Hossein Gholamalian (PhD student) is writing up his thesis on the conodont biostratigraphy (Frasnian/Famennian Boundary) in the Chahriseh (North of Esfahan) and Tabas areas (Shotori Range). 4) Miss Shirani and Miss Rabei (MSc students) have completed their theses. 5) I have published some papers on Devonian conodonts.

Evgeny A. Yolkina. I am continuing investigations on Palaeozoic conodonts from West Siberia and South Tien Shan with N.G. Izokh. The main topics are taxonomy and biostratigraphy. Much time has been spent on revision of conodont lists for a book on the Paleozoic of West Siberia and for the Guidebook of the IGCP 410/421 field meeting in Siberia.

Zhang Shunxin. I have been working with Prof. Chris Barnes on Early Silurian conodonts from Anticosti, Quebec and Early Ordovician conodonts from west Newfoundland, and on using the development and replacement of conodont communities to construct the history of eustasy. Meanwhile, I have been working on Late Triassic conodonts from west US with Dr. Mike Orchard.

Zhen Yong-yi. My research work on the Ordovician conodont faunas from Australia and China, and their biogeographic links has continued through 2001 supported by a Research Fellowship. This year I am mainly working on Early Ordovician conodont faunas from western New South Wales. A large manuscript documenting these faunas jointly with B. Webby and I. Percival is in an advanced stage. I am also sorting and working on conodont samples collected from the Ordovician of South China and from the Middle and Upper Ordovician of central New South Wales.

Andrey V. Zhuravlev. I am working on Upper Devonian and Lower Carboniferous conodonts from the north of the Russian Platform, and the Urals; Permian conodonts from North China, Trans-Caucasus, and Urals. My main fields of interest are conodont histology, functional morphology, biostratigraphy, and CAI.

Willi Ziegler. After several months of health problems I was lucky to return to work. I continue conodont research much in the way I reported last year. Major subjects are still conodont taxonomy, biochronology, and palaeofacies. Cooperation was carried out with C.A. Sandberg on general problems of Devonian-Carboniferous conodonts, and, also with J. Morrow, on event stratigraphy, sea level changes, and a stratigraphical Chart system from Givetian through Lower Carboniferous. During the 15th International Senckenberg Conference in May two posters were submitted jointly with the above collaborators, and a third on an elaboration of the Lower Carboniferous conodonts from Shishkat in Tajikistan with the Bardashevs. The final report on the cooperation with colleagues from Ekaterinburg (Bikbaev and Snigireva) on Frasnian/Famennian of the westslope of the Urals was completed. The printed version will be coming out in 2002. The Late Devonian activity of the German Subcommission on Devonian Stratigraphy was supported by the identification of many conodont faunas; a paper is in press with D. Korn on ammonoid and conodont stratigraphy of the once famous Enke-Berg Section of Wedekind (Early *marginifera* - to Early *postera* zones).

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