
Pander Society Newsletter



Compiled and edited by M.C. Perri, M. Matteucci and C. Spalletta

DIPARTIMENTO DI SCIENZE BIOLOGICHE, GEOLOGICHE E AMBIENTALI,
ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA, BOLOGNA, ITALY

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Webmaster Mark Purnell, University of Leicester

December 2013

Chief Panderer's Remarks

December, 2013

Dear Pander Society people,

Welcome to the 2013 edition of the Pander Society Newsletter, my fourth attempt at providing news and a list of conodont publications for the past year!

The slowness in producing this newsletter is my fault, I will try to close the next early in 2014.

Conodont research continues to be thriving but there were more than half (143 on 239) non-responses to my request for brief reports on research activities.

We have again enjoyed formal and informal meetings of the Society. A definitely informal mini-meeting of the Society was organized in association with the 34th International Geological Congress in Brisbane on 6 August 2012 during which Stig M. Bergström was awarded with the 2012 ICS Digby McLaren Award for his contributions to stratigraphy.

The only official Pander Society meeting was one held in Dayton, Ohio, in association with the Annual Meeting of the North-Central Section of the Geological Society of America in April 2012. A report on it was published in the previous Newsletter n° 44.

A sad news was the passing of Brian Frederick Glenister on June. He, together with Carl Rexroad organized the first symposium held by the society in 1968 at Iowa City.

Thank you for sending in your contributions. Thanks also to Suzanna Garcia-Lopez, John Repetski and Wang Cheng-Yuan for deliberating on nominations for the Society's medals. I am also very grateful to webmaster Mark Purnell (Leicester) who continues to load the newsletter onto the web. I am always grateful to Myriam Matteucci and to Claudia Spalletta for helping me get this newsletter realised. Special thanks go to Myriam for enormous help in stitching together the entire bibliography and providing the version in EndNote of this year's entries, now available on the Pander Society website. Thanks also to John Talent to check "lumpy stuff".

Best wishes to all of you and brilliant results from your research that I look forward to reporting in the next newsletter!

Cristina

Maria Cristina Perri, Chief Panderer

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In Memory

Brian Frederick Glenister

(1928–2012)



Brian Glenister, a leading researcher on Paleozoic ammonoids, passed away in June 2012. Brian taught and did research for many years at the University of Iowa. He also published on nautiloids and conodonts. In an important event in the history of the Pander Society, Brian together with Carl Rexroad organized the first symposium held by the society in 1968 at Iowa City. This was one year after the Pander Society's founding at the Calgary International Symposium on the Devonian System. The Iowa City symposium was devoted to multielement taxonomy, which was also a first. A memorial tribute to Brian was published in May 2013 by Collins, Klapper, Nassichuk, Semken, and Spinosa in the Geological Society of America Memorials and is available at ftp:

[//rock.geosociety.org/pub/Memorials/v42/Glenister-B.pdf](ftp://rock.geosociety.org/pub/Memorials/v42/Glenister-B.pdf)

Gilbert Klapper, Northwestern University
August, 2013

The Pander Society Medal & the Hinde Medal for Young Conodont Researchers

I again draw your attention to generating nominations of members deserving our awards. Please forward nominations for these medals, with supporting data, to any of the three members of the Pander Society Medals Committee: John Repetski (chair) jrepetski@usgs.gov, Susana Garcia Lopez sgarcia@geol.uniovi.es, and Cheng-yuan Wang cywang@nigpas.ac.cn. Nominations can be submitted at any time.

Thank you

The Pander Society is always deeply grateful to the University of Leicester for permitting the Newsletter to be distributed from their webserver.

Becoming a Part of Con-nexus

Con-nexus is a free e-mail forum for swift exchange of data and ideas about conodonts and conodont research. **To subscribe**, go to <http://lists.le.ac.uk/mailman/listinfo/con-nexus> and enter your details. **To post a message** to all other members of con-nexus (only subscribers can post), address it to: con-nexus@lists.le.ac.uk. **To unsubscribe** go to the following webpage and enter your details: <http://lists.le.ac.uk/mailman/listinfo/con-nexus>. This page also contains other useful information, such as how to access archives, and change your subscription information and settings.

Please note: anything communicated in an email to Con-nexus is instantaneously communicated to **all** members world-wide; this also applies to any Con-nexus messages that you click 'reply' to, even if you intend to reply only to the sender. **In other words:** use it with caution. **Also, please note that if**

you wish to continue to be a part of Con-nexus, then **You** must/should update or change your e-mail using the system above, i.e. your webmaster, or your editors, can't and won't.

Miscellanea



During the 34th International Geological Congress held in Brisbane in August 2012 Prof. Stig M. Bergström of The Ohio State University was selected as the recipient of the 2012 ICS Digby McLaren Award for his contributions to stratigraphy.

Gabriella Bagnoli, Pisa University
August 2012

Pander Society Meeting Reports

34th International Geological Congress

Brisbane, Australia
August 5-10, 2012



A definitely informal Pander Society mini-meeting was organized on 6 August 2012 during the 34th IGC and saw as participants Guillermo Albanesi, Gabriella Bagnoli, Thomas Becker, Stig Bergström, Barry Cooper, Nicolas Goudemand, Sven Hartenfels, Charles Henderson, Xiuchun Jing, Yau-Chyn Liao, Bob Nicoll, Ian Percival, Svend Stouge, Thomas Suttner, Tatiana Tolmacheva, Jose Ignacio Valenzuela-Rios, Yong Yi Zhen. It was just an excuse to get together and have a chat with old and new friends.

Guillermo Albanesi illustrated in detail the next conodont Symposium in Argentina: it looks very promising, even though the field trips will be mostly devoted to Early Palaeozoic successions.

Gabriella Bagnoli
August 2012



Lower line from left:
Barry Cooper, Tatiana Tolmacheva, Gabriella Bagnoli, Ian Percival, Yong Yi Zhen.
Upper line from left:
Xiuchun Jing, Svend Stouge, Bob Nicoll, Stig Bergström, Charles Henderson, Jose Ignacio Valenzuela-Rios, Yau-Chyn Liao (Teresa), Guillermo Albanesi.

(Photos from Guillermo Albanesi)



Pander Society Meetings in 2013

ICOS 3

3rd International Conodont Symposium, ICOS 2013 and IGCP 591 regional field meeting

Mendoza, Argentina

July 15–19, 2013



Submitted by Guillermo Albanesi

Guillermo Albanesi, on behalf of the organizing committee, invites all conodont workers to the next ICOS.

It will be held in Mendoza, with a five days (9–13 July) pre-symposium Field trip to the Precordillera, one day (17 June) intra-symposium field trip to San Isidro (Mendoza) and a five-day (21–25 July) post-symposium field trip to the Eastern Cordillera.

July 8, 2013 – Reception of participants of the pre-symposium field trip to Precordillera at San Juan city (capital city of the San Juan Province, located 150 km to the north of Mendoza).

July 9-13, 2013 – Pre-symposium field trip to Precordillera (San Juan and Mendoza provinces).

July 14, 2013 – Icebreaker party and opening dinner at Mendoza City.

North American Pander Society Meeting in association with the National Geological Society of America

Denver, Colorado

October 27-30, 2013

Past Meetings

34th International Geological Congress

Brisbane, Australia

August 5-10, 2012



Inside the different scientific sessions of the 34th International Geological Congress 22 abstracts including oral presentations and posters on Cambrian, Ordovician, Devonian, Carboniferous, Permian and Triassic conodonts, and one on 3D animated functional model were produced.

Guillermo L. ALBANESI, Stig M. BERGSTRÖM, Birger SCHMITZ, Gladys ORTEGA, Gustavo G. VOLDMAN, Nicolás A. FELTES and Fernanda SERRA. Middle Ordovician biostratigraphy, paleoenvironments and $\delta^{13}\text{C}$ isotopic records in the Argentine Precordillera.

Yong Yi ZHEN, Yuandong ZHANG, Zhihao WANG, Stig M. BERGSTRÖM, Ian G. PERCIVAL and Junfeng CHENG. **POSTER.** Middle/Upper Ordovician boundary level conodont biostratigraphy and biofacies in the Dawangou section of the Tarim Basin, China.

Yong Yi ZHEN and Ian G. PERCIVAL. Ordovician conodont studies — towards a fine-scaled regional biostratigraphy in Australia

Xiuchun JING, Hongrui ZHOU and Xunlian WANG. The Ordovician conodonts of Wuhai region on the western margin of the Ordos Basin, China.

Gladys ORTEGA, Guillermo L. ALBANESI and Fernando J. ZEBALLO. **POSTER.** Review of Tremadocian (Lower Ordovician) biostratigraphy from northwestern Argentine basins

Thomas SUTTNER, Erika KIDO, Stanislava VODRAZKOVA and Antonino BRIGUGLIO. Microtomography and 3D reconstruction of Devonian conodonts

Svetlana NIKOLAEVA, Aleksandr ALEKSEEV, Elena KULAGINA and Barry RICHARDS. Chronostratigraphic standard of the Serpukhovian Stage.

Yuandong ZHANG, Yongyi ZHEN, Axel MUNNECKE and Xu CHEN. Towards a fine correlation of the Ordovician in China — a review of latest biostratigraphic and chemostratigraphic studies.

Alexei ZAITSEV, Tatiana TOLMACHEVA and Andrei DRONOV. **POSTER.** New data on stratigraphy and conodonts from the Ordovician of Moscow Syncline.

Barry C. RICHARDS, Xiangdong WANG, Svetlana V. NIKOLAEVA and Alexander S. ALEKSEEV. Carboniferous system and stage boundaries: the present state and future.

José Ignacio VALENZUELA-RÍOS. The Lochkovian conodont biodiversity pattern and evolutionary cycle.

Jau-Chyn LIAO and José Ignacio VALENZUELA-RÍOS. New data on Middle to Upper Devonian conodont faunas from Renanué (Aragonian Pyrenees, Spain)

Gabriella BAGNOLI, Svend STOUGE and Yuping QI. Evolution of early euconodonts and implications for Upper Cambrian biostratigraphic correlations.

Charles M. HENDERSON. Completing the Permian time scale: Cisuralian GSSP progress and correlation.

Marco BALINI, Angela BERTINELLI, Elisabeth S. CARTER, Pietro DI STEFANO, Leo KRYSZYN, Marco LEVERA, Michele MAZZA, Chris McROBERTS, Giovanni MUTTONI, Alda NICORA, Michael J. ORCHARD, Nereo PRETO, Manuel RIGO, Angelo TRIPODO and John-Paul ZONNEVELD. Towards the definition of the GSSP of the Norian Stage (Upper Triassic): integrated stratigraphy and correlation of the two candidate sections Black Bear Ridge (BC, Canada) and Pizzo Mondello (Italy)

Svend STOUGE, Johanna I.S. MELLGREN, Mats E. ERIKSSON, Xiaofeng WANG and Rongchang WU. Conodont biostratigraphy across the upper Dapingian–Darriwilian interval based on the Maocaopu section, south China.

Tatiana TOLMACHEVA. Conodonts as a tool for dating and correlation of the Ordovician in the East European Platform: problems and potentials.

Tatiana TOLMACHEVA, Alexander LARIONOV, Henning LORENZ and David G. GEE. **POSTER.** The Upper Cambrian–Ordovician stratigraphy and conodonts of the October Revolution Island, the Severnaya Zemlya Archipelago.

Tatiana TOLMACHEVA, Kirill DEGTYAREV, Alexey RYASANTSEV and Leonid POPOV. **POSTER.** Ordovician conodonts of Kazakhstan: affinities and biogeographic signatures.

Nicolas GOUEMAND, Michael J. ORCHARD, Séverine URDY, Hugo BUCHER and Paul TAFFOREAU. Reconstructing the mouth of the first vertebrates.

Carlo ROMANO, Nicolas GOUEMAND, Torsten W. VENNEMANN, David WARE, Elke SCHNEEBELI-HERMANN, Peter A. HOCHULI, Thomas BRÜHWILER, Winand BRINKMANN and Hugo BUCHER. **POSTER.** High-resolution, conodont-based temperature record for the Early Triassic.

David WARE, Nicolas GOUEMAND, Hugo BUCHER, Michael J. ORCHARD, Elke SCHNEEBELI-HERMANN, Peter A. HOCHULI, Thomas BRÜHWILER, Leopold KRYSSTYN and Ghazala ROOHI. **POSTER.** Nammal Nala (Salt Range, Pakistan): a potential GSSP candidate for the Induan/Olenekian boundary (Early Triassic).

Future Meetings

11th International Triassic Field Workshop Working Group on Pan-European Correlation of the Triassic NW Gondwana margin of the Neo-Tethys (Negev, southern Israel)

February 12-16, 2014

This workshop offers participants the opportunity to visit the Triassic succession in southern Israel (Negev, Makhtesh Ramon, Makhtesh Arefif) considered to be a future UNESCO Geo-park—named “Makhteshim Country”—for interesting geological sites, archaeological and ecological value.

The Triassic sedimentary succession in southern Israel (Negev, Makhtesh Ramon, Makhtesh Arefif) accumulated on the Mesozoic passive margin of north Gondwana during the early stages of the Neo-Tethyan opening, a connection severed only by rifting in the Miocene. The local section was deposited on an epicontinental marginal marine belt, commencing with a siliciclastic delta and ranging to offshore carbonates. The Triassic successions display short-term intervals of rapid rift-related subsidence interrupting long-term subsidence beneath a passive margin edifice, a geological history in common with most North Atlantic and Mediterranean continental shelves, but that is completely exposed in a stunning desert landscape. Late Cretaceous and Miocene regional compression is only a distant echo of dramatic events along the Alpine belt, and excellent outcrops are at the core of mildly folded anticlinal crests breached by cirque-like erosional valleys (“crater” or “makhtesh”). Outcrops bear endemic cephalopods and other molluscan faunas representative of the southern Tethyan ‘Sepharadic’ faunal province, along with unique vertebrate remains. Clastic/carbonate and

carbonate/evaporite cycles record shifts in global climate, Gondwanan monsoons, sea level, and local rifting events, as this region wandered across 15° of Triassic latitude.



IGCP 591 Early to Middle Paleozoic Revolution *4th Annual Meeting*

Estonia
June 10–19, 2014



IGCP 591 Early to Middle Paleozoic Revolution *Field Workshop*

Kunming, China
August 18–28, 2014

The meeting is scheduled tentatively for August 18-28, 2014.

The 2014 Field Workshop of IGCP 591 held jointly with ISOS and ISCS will be hosted by the Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences and the Yunnan Key Laboratory of Palaeontology, Yunnan University. Its formal theme will be ‘Global Events and their relationships in the Early to Middle Paleozoic’. The meeting is scheduled tentatively for August 18-28, 2014. The scientific sessions in Kunming will be followed by a field excursion from northeastern Yunnan (western South China paleoplate) to western Yunnan (Indochina and Sibumasu paleoplates).



4th International Palaeontological Congress

Mendoza, Argentina
September 28–October 3, 2014

The International Palaeontological Congress (IPC) is a global meeting devoted to Palaeontology throughout the world. It convenes every four years under the aegis of the International Palaeontological Association. Following three previous editions in Sydney (2002), Beijing (2006) and London (2010), it will now come to the American continents for the first time. The 4th IPC will explore the directions palaeontology may take as the 21st century ushers in profound and long-lasting technological changes.



12th International Symposium on the Ordovician System

Harrisonburg, Virginia, USA
June, 2015

PRELIMINARY ANNOUNCEMENT: 12th ISOS, JUNE 2015 James Madison University Harrisonburg, Virginia USA Central Appalachian Mountains

Organizing Committee (Preliminary)

Stephen A. Leslie, James Madison University
John Haynes, James Madison University

Achim Herrmann, University of Arizona
Dan Goldman, University of Dayton
Matt Saltzman, Ohio State University
John Taylor, Indiana University Pennsylvania
John Repetski, United States Geological Survey

If you would like to help with the meeting, email Steve Leslie: lesliesa@jmu.edu Proposed Dates (may change by a week or so in either direction)

Pre-meeting field trips 3-7 June, 2015

Technical Sessions June 8, 9, 10

Conference Field Trip June 11

Post-Meeting Field Trip(s) June 12-17.

The XVIII International Congress on Carboniferous and Permian



**Kazan, Russia
August 7-15, 2015**

The XVIII ICCP will be held in the Kazan Federal University on August 7-15, 2015. An international meeting devoted to all aspects of Carboniferous-Permian geology with special emphasis on the Carboniferous-Permian stratigraphy and paleontology.

Detailed information see: <http://www.iccp2015.ksu.ru/index.php>

Research Interests by Category

Cambrian Albanesi; Bagnoli; Barnes; Bergstrom; Dong Xiping; Ghobadi Pour; Isozaki; Liu Jianbo; Miller J.F.; Nowlan; Ortega; Qi Yuping; Repetski; Snider; Tarabukin; Voldman; Wang Zhiaho; Zhang Huaqiao

Ordovician Albanesi; Aldridge; Bagnoli; Barnes; Bauer; Bergstrom; Dong Xiping; Dzik; Ethington; Ferretti; Ghobadi Pour; Isozaki; Liu Jianbo; Löfgren; Männik; McCracken; Miller C.G.; Miller J.F.; Nowlan; Ortega; Percival; Repetski; Sandberg; Savage; Snider; Sullivan; Sweet; Tarabukin; Voldman; Wang Zhiaho; Zhang Shunxin

Silurian Albanesi; Aldridge; Bardashev; Barnes; Barrick; Bashardin; Bergstrom; Corradini; Corrigan; Ghobadi Pour; Kleffner; Luppold; Männik; Mawson; McCracken; Miller C.G.; Nowlan; Over; Percival; Pondrelli; Sanz-Lopez; Savage; Simpson; Slavík; Sloan; Sullivan; Talent; Tarabukin; Valenzuela Ríos; Voldman; Zhang Shunxin

S/D boundary Barrick; Boncheva; Bultynck; Corradini; Corrigan; García López; Fordham; Kleffner; Mawson; Sandberg; Sanz-Lopez; Savage; Simpson; Slavík; Sloan; Sullivan; Suttner; Talent; Tarabukin; Valenzuela Ríos

Devonian Bardashev; Bardasheva; Barham; Barrick; Bashardin; Belka; Boncheva; Bultynck; Çapkınoğlu; Corradini; Corrigan; Dopieralska; Dzik; Fordham; García López; Gatovsky; Gholamalian; Johnston; Klapper; Königshof; Kumpan; Liao Jau-Chyn; Luppold; Mawson; McCracken; Matveeva; Mossoni; Narkiewicz; Nazarova; Over; Perri; Piecha; Pondrelli; Randon; Repetski; Sandberg; Sanz-Lopez; Savage; Simpson; Slavík; Sloan; Spalletta; Sullivan; Suttner; Talent; Tarabukin; Uyeno; Valenzuela Ríos; Woroncowa-Marcinowska; Zhuravlev

Frasnian–Famennian boundary Bardashev; Barham; Boncheva; Corradini; Dopieralska; Dzik; Gatovsky; Gholamalian; Johnston; Klapper; Königshof; Mawson; Nazarova; Over; Perri; Piecha;

Randon; Sandberg; Sanz-Lopez; Savage; Sloan; Spalletta; Talent; Valenzuela Ríos; Woroncowa-Marcinowska; Zhuravlev

D/C boundary Bardashev; Bardasheva; Barham; Barrick; Blanco-Ferrera; Boncheva; Çapkinoğlu; Corradini; Dopieralska; Dzik; Gatovsky; Groessens; Johnston; Kumpan; Mawson; Mossoni; Over; Perri; Randon; Sandberg; Sanz-Lopez; Savage; Spalletta; Talent; Tarabukin; Valenzuela Ríos; Woroncowa-Marcinowska; Zhuravlev

Carboniferous Bardashev; Bardasheva; Barham; Barrick; Bashardin; Blanco-Ferrera; Boncheva; Çapkinoğlu; Corradini; Dopieralska; Gatovsky; Gholamalian; Griffin; Herbig; Ishida; Johnston; Kumpan; Lambert; Luppold; Mawson; Metcalfe; Nicora; Orchard; Perri; Piecha; Randon; Qi Yuping; Sandberg; Sanz-Lopez; Spalletta; Talent; Tarabukin; Wang Zhiaho; Zhuravlev

Mississippian Barrick; Bashardin; Blanco-Ferrera; Boncheva; Dopieralska; Gholamalian; Groessens; Ishida; Kumpan; Luppold; Metcalfe; Randon; Qi Yuping; Sandberg; Sanz-Lopez; Wang Zhiaho; Zhuravlev

Pennsylvanian Barrick; Bashardin; Blanco-Ferrera; Boncheva; Dopieralska; Heckel; Ishida; Lambert; Luppold; Qi Yuping; Sandberg; Sanz-Lopez; Wang Zhiaho; Wardlaw; Zhuravlev

Permian Bardasheva; Bashardin; Gholamalian; Goudemand; Ishida; Isozaki; Lai Xulong; Lambert; Metcalfe; Nicora; Orchard; Qi Yuping; Sandberg; Sun Yadong; Wang Lina; Wang Zhiaho; Wardlaw; Yao Jianxin; Zhuravlev

P/T boundary Aldridge; Bashardin; Brosse; Goudemand; Isozaki; Jiang Haishui; Lai Xulong; Liu Jianbo; Metcalfe; Nicora; Orchard; Perri; Plasencia Camps; Qi Yuping; Sun Yadong; Sweet; Wardlaw; Yao Jianxin

Triassic Bashardin; Golding; Goudemand; Ishida; Jiang Haishui; Lai Xulong; Luppold; Mazza; Metcalfe; Nicora; Orchard; Perri; Plasencia Camps; Rigo; Savage; Sun Yadong; Sweet; Wang Lina; Wang Zhiaho; Yao Jianxin

Biostratigraphy Albanesi; Aldridge; Bagnoli; Bardashev; Bardasheva; Barham; Barnes; Barrick; Bashardin; Bauer; Bergstrom; Blanco-Ferrera; Boncheva; Brosse; Bultynck; Corradini; Corrigan; Dong Xiping; Dopieralska; Ethington; Ferretti; Fordham; García López; Gatovsky; Ghobadi Pour; Gholamalian; Golding; Goudemand; Groessens; Heckel; Ishida; Jiang Haishui; Johnston; Klapper; Kleffner; Kumpan; Lai Xulong; Lambert; Liao Jau-Chyn; Liu Jianbo; Löfgren; Luppold; Männik; Mawson; Mazza; McCracken; Metcalfe; Miller C.G.; Miller J.F.; Mossoni; Narkiewicz; Nazarova; Nicora; Nowlan; Orchard; Ortega; Over; Percival; Perri; Piecha; Plasencia Camps; Randon; Qi Yuping; Repetski; Rigo; Sandberg; Sanz-Lopez; Savage; Simpson; Slavík; Snider; Spalletta; Sullivan; Suttner; Sweet; Talent; Tarabukin; Uyeno; Valenzuela Ríos; Voldman; Wang Lina; Wardlaw; Woroncowa-Marcinowska; Yao Jianxin; Zhang Shunxin; Zhuravlev

Graphic correlation Bardashev; Bardasheva; Barrick; Bauer; Boncheva; Fordham; Johnston; Klapper; Kleffner; Mazza; Sanz-Lopez; Sloan; Sweet; Tarabukin; Valenzuela Ríos; Voldman; Yao Jianxin

Chronostratigraphy Albanesi; Bagnoli; Barnes; Barrick; Bauer; Bergstrom; Blanco-Ferrera; Brosse; Goudemand; Johnston; Kleffner; Lai Xulong; Lambert; Liao Jau-Chyn; Liu Jianbo; Männik; Metcalfe; Miller C.G.; Miller J.F.; Nicora; Nowlan; Ortega; Perri; Qi Yuping; Repetski; Rigo; Sanz-Lopez; Savage; Spalletta; Sweet; Valenzuela Ríos; Yao Jianxin

Events Albanesi; Barham; Barnes; Bashardin; Bergstrom; Blanco-Ferrera; Boncheva; Bultynck; Corradini; Corrigan; Ferretti; Gatovsky; Gholamalian; Groessens; Isozaki; Jiang Haishui; Johnston; Kleffner; Königshof; Kumpan; Lai Xulong; Liao Jau-Chyn; Männik; Mawson; Mazza; Miller J.F.; Mossoni; Narkiewicz; Orchard; Ortega; Over; Perri; Piecha; Pondrelli; Repetski; Sandberg; Sanz-Lopez; Savage; Simpson; Slavík; Snider; Spalletta; Sullivan; Suttner; Talent; Valenzuela Ríos; Voldman; Woroncowa-Marcinowska

Sequence stratigraphy Albanesi; Bardashev; Bardasheva; Barnes; Bashardin; Bergstrom; Johnston; Kleffner; Liao Jau-Chyn; Liu Jianbo; Männik; Miller J.F.; Ortega; Over; Savage; Sullivan; Tarabukin; Valenzuela Ríos; Wang Zhiaho; Wardlaw; Zhuravlev

Evolution Albanesi; Aldridge; Bardashev; Bardasheva; Barham; Barnes; Bauer; Bergstrom; Blanco-Ferrera; Brosse; Bultynck; Dzik; Ferretti; Fordham; Goudemand; Isozaki; Jiang Haishui; Johnston; Lai Xulong; Lambert; Männik; Mazza; Miller J.F.; Nazarova; Nowlan; Ortega; Plasencia Camps; Qi Yuping; Repetski; Sandberg; Sanz-Lopez; Savage; Snider; Sullivan; Valenzuela Ríos; Zhang Huaqiao

Phylogeny Aldridge; Bardashev; Bardasheva; Barnes; Bauer; Bergstrom; Blanco-Ferrera; Bultynck; Fordham; Gatovsky; Goudemand; Groessens; Jiang Haishui; Johnston; Kleffner; Lai Xulong; Lambert; Liao Jau-Chyn; Löfgren; Männik; Mazza; McCracken; Metcalfe; Nicora; Orchard; Plasencia Camps; Repetski; Sandberg; Sanz-Lopez; Sullivan; Tarabukin; Valenzuela Ríos; Zhuravlev

Statistical analysis Albanesi; Barnes; Bergstrom; Blanco-Ferrera; Fordham; Gholamalian; Goudemand; Jiang Haishui; Männik; Nowlan; Rigo; Sloan; Tarabukin; Valenzuela Ríos; Voldman;

Ontogeny Blanco-Ferrera; Bultynck; Dzik; Goudemand; Lambert; Männik; Mazza; Nazarova; Orchard; Repetski; Sanz-Lopez; Zhuravlev

Histology Barnes; Dong Xiping; Dopieralska; Goudemand; Repetski; Voldman; Zhang Huaqiao; Zhuravlev

Ultrastructure Barnes; Buryi; Ferretti; Goudemand; Mazza; Repetski; Voldman

Morphology Albanesi; Bashardin; Blanco-Ferrera; Buryi; Goudemand; Ishida; Jiang Haishui; Johnston; Löfgren; Männik; Mazza; Nazarova; Orchard; Ortega; Repetski; Sloan; Snider; Valenzuela Ríos; Zhuravlev

Functional morphology Bashardin; Blanco-Ferrera; Buryi; Dzik; Goudemand; Jiang Haishui; Johnston; Nazarova; Repetski; Tarabukin; Zhuravlev

Taxonomy Albanesi; Aldridge; Bagnoli; Bardashev; Bardasheva; Barnes; Bashardin; Bauer; Bergstrom; Blanco-Ferrera; Boncheva; Brosse; Corradini; Corriga; Dong Xiping; Ethington; Ferretti; Fordham; García López; Gatovsky; Golding; Goudemand; Ishida; Jiang Haishui; Johnston; Klapper; Lai Xulong; Lambert; Liao Jau-Chyn; Löfgren; Männik; Mawson; Mazza; McCracken; Metcalfe; Miller C.G.; Miller J.F.; Narkiewicz; Nicora; Nowlan; Orchard; Ortega; Perri; Plasencia Camps; Qi Yuping; Repetski; Sandberg; Sanz-Lopez; Savage; Simpson; Snider; Spalletta; Sullivan; Talent; Valenzuela Ríos; Voldman; Zhang Shunxin

Apparatus reconstruction Albanesi; Aldridge; Barnes; Bashardin; Bauer; Bergstrom; Blanco-Ferrera; Corriga; Dzik; Fordham; Goudemand; Ishida; Jiang Haishui; Johnston; Lambert; Löfgren; Männik; Miller C.G.; Nowlan; Orchard; Perri; Sandberg; Sanz-Lopez; Savage; Valenzuela Ríos; Wardlaw; Zhang Shunxin; Zhuravlev

Palaeobiology Aldridge; Barham; Barnes; Bergstrom; Blanco-Ferrera; Boncheva; Dzik; Goudemand; Johnston; Lai Xulong; Lambert; Liu Jianbo; Nazarova; Nicora; Nowlan; Plasencia Camps; Qi Yuping; Repetski; Sanz-Lopez; Savage; Snider; Valenzuela Ríos; Wang Lina

Palaeoecology Albanesi; Barham; Barnes; Bashardin; Bergstrom; Blanco-Ferrera; Boncheva; Bultynck;; Ferretti; Gatovsky; Goudemand; Johnston; Lai Xulong; Lambert; Liao Jau-Chyn; Männik; Mawson; Mazza; Narkiewicz; Nazarova; Nicora; Nowlan; Orchard; Ortega; Perri; Randon; Repetski; Rigo; Sanz-Lopez; Savage; Simpson; Snider; Spalletta; Sullivan; Sun Yadong; Talent; Tarabukin; Valenzuela Ríos; Zhuravlev

Palaeoclimatology Barham; Barnes; Bashardin; Bergstrom; Blanco-Ferrera; Boncheva; Dopieralska; Gatovsky; Ghobadi Pour; Goudemand; Jiang Haishui; Johnston; Kleffner; Lai Xulong; Lambert; Liao Jau-Chyn; Liu Jianbo; Männik; Metcalfe; Mossoni; Repetski; Rigo; Sanz-Lopez; Savage; Sun Yadong; Trotter; Valenzuela Ríos; Voldman

Palaeobiogeography Albanesi; Aldridge; Bardashev; Bardasheva; Barham; Barnes; Bashardin; Bergstrom; Blanco-Ferrera; Boncheva; Bultynck; Dopieralska; Ferretti; Gatovsky; Ghobadi Pour; Goudemand; Ishida; Isozaki; Johnston; Kleffner; Königshof; Lambert; Löfgren; Männik; Metcalfe; Narkiewicz; Nicora; Nowlan; Orchard; Ortega; Percival; Perri; Plasencia Camps; Qi Yuping; Repetski; Sandberg; Sanz-Lopez; Savage; Spalletta; Tarabukin; Valenzuela Ríos; Voldman; Zhuravlev

Geochemistry Albanesi; Bagnoli; Barham; Barnes; Belka; Dopieralska; Goudemand; Kleffner; Kumpan; Liu Jianbo; Männik; Metcalfe; Mossoni; Nowlan; Ortega; Repetski; Rigo; Savage; Trotter; Valenzuela Ríos; Voldman

CAI Albanesi; Barnes; Bashardin; Belka; Bergstrom; Blanco-Ferrera; Boncheva; García López; Gatovsky; Johnston; Königshof; Lai Xulong; Männik; McCracken; Metcalfe; Mossoni; Narkiewicz; Nowlan; Perri; Piecha; Pondrelli; Qi Yuping; Repetski; Sandberg; Sanz-Lopez; Sullivan; Sun Yadong; Suttner; Tarabukin; Valenzuela Ríos; Voldman; Wardlaw; Zhang Shunxin; Zhuravlev

Taphonomy Albanesi; Aldridge; Barnes; Bashardin; Blanco-Ferrera; Goudemand; Johnston; Repetski; Sanz-Lopez; Sullivan; Valenzuela Ríos; Voldman; Zhuravlev

Research Activities including Personal or other Items of Interest

Albanesi Guillermo. is participating in collaborative projects with Gladys Ortega and colleagues from universities of Argentina and other countries. The projects are devoted to diverse topics of historical geology from the Lower Paleozoic of South America, including conodont biostratigraphy, chemostratigraphy, events, and paleothermometry. His project on early Paleozoic conodont faunas from the Eastern Cordillera and Puna of northwestern Argentina includes the associated PhD student M. E. Giuliano for the next years. Post-doctoral students G. Voldman and F. Zeballo are carrying out their projects on Cambrian-Ordovician conodont biostratigraphy, paleoenvironments and paleothermometry of Argentine basins under his supervision. F. Serra and N. Feltes are studying conodont biostratigraphy and paleoenvironments of mixed carbonate-siliciclastic sequences from the Ordovician System of the Argentine Precordillera, under his direction for the CONICET. He organized the regional field meeting, as regional co-leader for the IGCP 591, “The Early to Middle Paleozoic Revolution”, together with the 3rd International Conodont Symposium, “Conodonts from the Andes” (website: www.efn.uncor.edu/3icos) held in Mendoza, Argentina, July 2013. He has published a special thematic issue of *Geological Journal* on Early Palaeozoic faunas of South America with G. Ortega as guest editors. He is also organizing the “XIX Congreso Geológico Argentino” (website: www.congresogeologico.org.ar), which will be held in Córdoba, Argentina, June 2014.

Aldridge, Dick. A paper has been published on a new 17-element conodont genus, *Notiodella*, based on natural assemblages from the latest Ordovician Soom Shale of South Africa; a review of the phylogenetic affinities of conodonts with several co-authors progresses, but other projects are rather dormant. **Personal Items of Interest.** Awarded the Coke Medal of the Geological Society of London in June 2012 and the Brady Medal of The Micropalaeontological Society in November 2012.

Bagnoli, Gabriella. Cambrian conodonts of North China, South China, and Sweden; potential GSSP for base of Cambrian stage 10; Cambrian-Ordovician boundary; Ordovician conodonts of Sweden.

Bardashev, Igor. Actively working on Silurian, Devonian and Carboniferous stratigraphy and conodonts from Central Asia.

Bardasheva, Nina P. Actively working on Devonian, Carboniferous and Permian stratigraphy and conodonts from Central Asia.

Bahram, Milo. Using oxygen isotope ratios of biogenic apatite (principally that of conodonts) to investigate important palaeoclimatic and evolutionary episodes in Earth history. Examining the biostratigraphic potential of the *Lochriea* conodont lineage in Mississippian strata, in particular, that of ornamented forms as potential diagnostic markers for the Viséan-Serpukhovian boundary.

Barnes, Chris. The geochemistry of Lower Paleozoic conodonts, particularly oxygen isotopes for paleotemperatures, is being pursued further in collaboration with Julie Trotter (University of Western Australia) and other colleagues. Work with Shunxin Zhang (Geological Survey of Canada, Iqaluit) continues 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.

Barrick, James E. Recent work has concentrated on Pennsylvanian conodonts from several ranges in New Mexico with Spencer Lucas and Karl Krainer, including some especially good Moscovian and Gzhelian faunas. Collection of conodonts at the centimeter-scale in selected Pennsylvanian Midcontinent cyclothems continues and geochemical and biofacies analyses are under way with Achim Herrmann and Tom Algeo. A revision of the Midcontinent Pennsylvanian conodont zonation is nearly completed with Phil Heckel, Lance Lambert, and Steve Rosscoe. A paper with Yuping Qi on the Kasimovian-Gzhelian conodonts from the Naqing section, South China, is almost finished. Research on Silurian event faunas and coniform taxonomy has been pushed into the background, but not completely forgotten.

Bashardin, Atilia. Doing a master degree research entitled “Conodont biostratigraphic framework for the Northern Kedah, Perlis and Langkawi, Peninsular Malaysia.” Interested in conodonts from Silurian till Triassic age.

Bauer, Jeff. Working on Ordovician conodonts from the Pruitt Ranch Member, Oil Creek Formation, Criner Hills, Oklahoma.

Belka, Zdzislaw. Study on Late Devonian conodont stratigraphy in the eastern Anti-Atlas, Morocco. Other projects include studies on Nd isotope chemistry of conodont elements in the Variscan Europe and CAI studies in the Devonian of North Africa and Kazakhstan.

Bergstrom, Stig M. Working during 2012 on conodont faunas from several parts of the world, including USA, Argentina, China, and southern Europe, UK, and Baltoscandia and their relations to $\delta^{13}C$ chemostratigraphy and sequence stratigraphy. About half a dozen papers are in press. **Personal Items of Interest.** Received the Digby McLaren Award from the International Commission on Stratigraphy during the International Geological Congress in Brisbane in August, 2012. This, the highest international award in stratigraphy, is given out only every four years.

Blanco-Ferrera, Silvia. CAI studies in the Cantabrian Mountains (with J. Sanz-Lopez and S. Garcia-Lopez), textural alteration (with J. Sanz-Lopez), Mississippian conodonts, particularly *Gnathodus* species (with J. Sanz-Lopez and M.-F. Perret) from Cantabrian Mountains particularly around the Viséan–Serpukhovian boundary, *Declinognathodus* evolution and lower Bashkirian conodonts from the Cantabrian Mountains and the Pyrenees (with J. Sanz-Lopez), Bahskirian/Moscovian and Moscovian/Kasimovian boundaries in the Cantabrian Mountains.

Boncheva, Iliana. Paleontological investigations of the Devonian and Carboniferous in Southeastern Bulgaria, Turkey and Iran based on conodonts; taxonomy and biostratigraphy as well as estimation of the paleotemperatures and biogeographic affinities.

Brosse, Morgane. An abstract and a talk have been presented at the 3rd ICOS in Argentina, about earliest Triassic conodont faunas from Kashmir and from Oman.

Bultynck, Pierre. Top Pragian, Emsian, Eifelian conodonts. **Personal Items of Interest.** Retired but still active at the Royal Belgian Institute of Natural Sciences in Brussels.

Buryi, Galina I. Continuing to work on the morphology of euconodont animals.

Çapkınoğlu, Şenol. Devonian and Lower Carboniferous conodont biostratigraphy.

Clark, David L. Retired, is living in Provo, Utah.

Corradini, Carlo. Devonian/Carboniferous boundary and taxonomy of main conodont taxa in Late Devonian and Early Carboniferous. Sections across the D/C boundary in Sardinia, Montagne Noire and Iran. Conodont biozonation in the Silurian and Lower Devonian. Silurian, Devonian and Lower Carboniferous conodonts from Sardinia and the Carnic Alps. Lithostratigraphy of the pre-Variscan sequence of the Carnic Alps. Conodont stratigraphy of the Upper Devonian and Lower Carboniferous of Iran.

Corriga, Maria Giovanna. Revision of the conodont fauna and biostratigraphy of the Cellon section. Silurian and Devonian conodonts from several sections in Sardinia, the Carnic Alps, Morocco and other north Gondwana regions. Conodont biozonation of the upper Silurian and Lower Devonian. Apparatus reconstruction of early Devonian ozarkodinids.

Dong, Xiping. Taxonomy and biostratigraphy of Cambrian through Lowermost Ordovician conodonts from western Hunan, South China and histology of protoconodonts, paraconodonts and earliest euconodonts from China.

Dopieralska, Jolanta. Studies on Nd isotope composition of conodonts and carbonates.

Dzik, Jerzy. Ordovician *Distomodus*-like conodonts from Siberia; evolution of conodont elements; ontogeny.

Ethington, Raymond. Still working on Lower and lower Middle Ordovician collections assembled over past 50 years from central United States and from the Great Basin in Utah and Nevada.

Ferretti, Annalisa. Conodont research continues to be concentrated on Ordovician faunas from Europe and elsewhere, conducting cooperative research with Stig Bergström on conodonts from Wales (together with Chris Barnes), the Carnic Alps (together with Hans Peter Schönlaub) and the United Arabian Emirates (together with Giles Miller). Recently edited, together with K. Histon, P. McLaughlin and C. Brett, a Special Issue of *Palaeogeography, Palaeoclimatology, Palaeoecology* "Time-specific facies: the colour and texture of biotic events" (Ferretti, Histon, McLaughlin & Brett, 2012a, b, vol. 367-368, 280 pp.), a thematic set of papers arising from the Third International Palaeontological Congress IPC3 2010 Symposium: "Time-specific facies: the colour and texture of biotic events". The concept of "Time-Specific Facies", originally introduced by Otto Walliser, is discussed (Brett, McLaughlin, Histon, Schindler & Ferretti, 2012). Enigmatic fossilized ring-like structures with unknown function and taxonomic affiliation are described from conodont residues in the Upper Ordovician of the Carnic Alps and the Silurian of Bohemia (Ferretti, Cardini, Crampton, Serpagli, Sheets & Storch, in press).

Fordham, Barry. Working on a number of Ordovician–Mississippian projects.

Furey-Greig. Continues researching conodont-ages of olistoliths and cherts in Palaeozoic flysch sequences in east-central New South Wales.

García López, Susana. Devonian conodonts, mainly focusing on biostratigraphy and biofacies topics. Projects dealing with CAI research in the Cantabrian Zone (NW Spain). **Personal Items of Interest.** Retired on 2012, she is now a Honorary Professor and still retains an office space in the department to continue research work. At present, she hopes to become a "nature writer" making research and publishing about the African deserts (Sahara y Danakil). In June 2012 she received the gold medal of the Oviedo University recognizing 42 years of work in this institution.

Gatovsky, Yury A. Completed the study of the Upper Devonian and Lower Carboniferous conodonts from the Russian Platform, Urals and Kazakhstan, and of the Taxonomy, Phylogeny, Palaeoecology and Paleobiogeography of the Late Famennian (Upper Devonian) Conodont genera *Alternognathus*, *Rhodalepis*, *Icriodus* and *Pelekysgnathus*. The evolutionary lineage *Siphonodella praesulcata* to *S. sulcata* in the Urals sections have been studied. Preparing a monograph on Upper Devonian conodonts of the Polar Urals (with Nonna Ovnatanova and Ludmila Kononova). In addition, a monograph on Upper Devonian and Lower Carboniferous conodonts of the South Urals (with Vladimir Pazukhin) will be completed. Study the Viséan-Serpukhonian conodonts in the Verhnyaya Kardailovka section, South Urals, Russia (with Alexander Alekseev and Vladimir Pazukhin) is in progress.

Ghobadi Pour, Mansoureh. Currently working on Cambrian, Ordovician and Silurian trilobites, brachiopods, conodonts and other associated faunas in Alborz Mountains, northern Iran, and Zagros Mountains, southern Iran. Also worked on the Upper Devonian conodonts of Central Iran.

Gholamalian, Hossein. Continuing studies on the Devonian conodonts of Iran as well as Carboniferous and Permian biostratigraphy. Researches on the G-F and F-F boundaries, Frasnian and Famennian of some sections of central Iran are going ahead.

Golding, Martyn. Olenekian, Anisian, Ladinian and Carnian biostratigraphy of British Columbia; correlation between surface and subsurface; taxonomic revision of Middle Triassic species from B.C.

Personal Items of Interest. Final year of PhD at the University of British Columbia.

Goudemand, Nicolas. Still busy with Early Triassic biostratigraphy projects. New fieldwork in Oman and Kashmir (Guryul Ravine). Plus synchrotron analyses of natural assemblages (cooperation with fellow Panderers Mike Orchard, Bob Nicoll and Manuel Rigo). **Personal Items of Interest.** Current

post-doc position ends in Spring 2013. Starting in June 2013 a new post-doc project with J. Payne at Stanford University.

Groessens, Eric. No conodont research actually. **Personal Items of Interest:** Retirement.

Heckel, Phil. Biostratigraphic studies of Pennsylvanian conodonts continue with colleagues, especially in terms of providing stratigraphic information for conodont occurrences, and resolving correlation problems of marine units and cyclothems; currently working on Desmoinesian units in Illinois Basin.

Ishida, Keisuke. Working on materials from the accretionary complexes of SW Japan and related areas with special respects of the Carboniferous faunal succession in the clastic carbonates, and some Permian and Triassic Gondolellid apparatuses. Further interest is focused on the adult variation in Pennsylvanian and Triassic P1 elements of some categories.

Isozaki, Yukio. Litho-, Bio-, and Chemostratigraphic analyses of the Cambrian and Permian rocks in South China, and Japan.

Jiang, Haishui. Conodonts across the P/T boundary and Triassic conodont from south China.

Johnston, David. No conodont research to report. **Personal Items of Interest.** Continue to work as consultant in Canadian oil and gas industry.

Klapper, Gilbert. Research continues on Emsian through Famennian conodont taxonomy and biostratigraphy. The paper with Stana Vodrážková deals with the ontogeny and intraspecific variation of two common late Emsian-early Eifelian conodont species. A main point of the paper is to show how the lack of attention to these sources of variation has led to the publication of numerous unnecessary and invalid synonyms in the recent conodont literature. The memorial to Brian Glenister was published by the Geological Society of America in May of 2013. Brian, together with Carl Rexroad, was responsible for the organization of the first formal symposium of the Pander Society in 1968 at the University of Iowa (one year after the initial organization of the society at the International Devonian Symposium in Calgary). The symposium at Iowa was devoted to multielement taxonomy.

Kleffner, Mark A. Actively involved in five projects with several different colleagues: (1) Aeronian-Telychian biochemostratigraphy of Ohio and New York; (2) conodont biostratigraphy, oceanic episodes, and $\delta^{13}\text{C}$ chemostratigraphy of Silurian/Devonian boundary strata in New York; (3) conodonts, graptolites, Ireviken Event and Ireviken $\delta^{13}\text{C}$ excursion in the Estill Shale; (4) oceanic episodes, $\delta^{13}\text{C}$ chemostratigraphy, and updated Homerian, Gorstian, and Ludfordian (Silurian) conodont biostratigraphy of the North American Midwestern Basins and Arches region of southern Laurentia; and (5) a revised conodont-, graptolite-, chitinozoa-, and event-based Gorstian-Lochkovian (Silurian-earliest Devonian) chronostratigraphy.

Königshof, Peter. The focus of research concerned palaeoenvironmental studies on Devonian sequences (sedimentology, microfacies, stratigraphy) in various regions, such as Southeast Asia, Germany and Belgium. Research on conodont alteration in comparison with other methods to estimate low-grade metamorphism continued. Furthermore, in the framework of the successful IGCP 596 project (for further information please contact <http://www.senckenberg/IGCP-596>), a number of meetings and workshops were organized in co-operation with colleagues from Austria, Belgium, Mongolia, USA, and Vietnam.

Kumpan, Tomas. Conodont biostratigraphy of the Devonian-Carboniferous and Early Tournaisian-Middle Tournaisian boundary interval sections in the Moravian Karst (Czech Republic). Preliminary research of Devonian and Carboniferous ichthyoliths from the Moravian Karst. Chemostratigraphy (stable carbon isotopes, element geochemistry), petrophysics (gamma-ray spectrometry, magnetic susceptibility) and carbonate sedimentology (microfacies and component analysis) of the Devonian-Carboniferous boundary sections in the Dinant synclinory, Montagne Noire and Pyrenees.

Lai, Xulong. Conodonts around the Permian-Triassic Boundary and Guadalupian-Lopingian boundary in South China. Conodont Oxygen isotope.

Lambert, Lance. Continue working on various Carboniferous and Permian projects.

Liao, Jau-Chyn (Teresa). Main work on Eifelian, Givetian and Frasnian biostratigraphy and chronostratigraphy. Beginning the study of Devonian Events in the Pyrenees with conodonts as the

most precise time-constrain tool. Main studied collections from Spain (Pyrenees, Iberian Chains, Ossa-Morena, Nevada). Givetian and Frasnian together with Prof. Nacho Valenzuela Ríos and Sofie Gouwy. Also, Eifelian, Givetian and Frasnian studies together with Prof. Mike Murphy and Prof. Peter Carls. Microfacies analyses and interpretations of Middle-Upper Devonian environment. Starting study with Prof. Susana García-López on ancyrodellids collection from Cantabrian Mountains.

Liu, Jianbo. Working on Lower Triassic conodonts in association with Shouren Yang and on Ordovician conodonts in association with Rongchang Wu.

Löfgren, Anita. Retired, but still interested in all aspects of Early and Middle Ordovician conodonts, particularly Baltoscandian ones.

Luppold, Friedrich Wilhelm. The manuscript of “The Geology of the Brilon Reef Complex” by J. Brinckmann, D. Stoppel & F.W. Luppold was submitted to the *Geologisches Jahrbuch*. Another manuscript of Gereke, M., Luppold, F.W. Luppold, Piecha, M., Schindler, E. & Stoppel, D. about the Type Locality of the Kellwasser limestone in the Harz-Mountains is also finished and is to be published by the German Society for Geosciences (ZDGG). Conodont activities with special interest in Silurian/Devonian boundary and Namurian/Visean boundary are on hold because co-authors are involved with other projects.

Männik, Peep. Actively working on evolution, taxonomy and palaeoecology of conodonts, conodont-based high-resolution stratigraphy, bioevents and palaeogeography. Also interested in sequence stratigraphy and evolution of sedimentary basins. Studies are related to projects “Changes in the Telychian–lower Sheinwoodian conodont faunas as a proxy for basin evolution in northern Baltic”, “Quantitative stratigraphical approach to early Palaeozoic chitinozoans and conodonts of the Baltic area: high-resolution time scales and palaeobiodiversity” and “Ordovician and Silurian biodiversity in Baltica: evolution and impact of the changing environment”. Additionally, a small project dealing with conodont faunas from base Aeronian and Telychian GSSPs is in progress. Also, joint studies together with colleagues from Estonia, Germany, Iran, Russia, Sweden, U.K. and USA on evolution and high-resolution stratigraphy of the Early Palaeozoic faunas and sedimentary basins on different palaeocontinents are going on.

Matveeva, Marina. Upper Devonian conodonts of the Polar Urals.

Mawson, Ruth. Continues researching conodont biostratigraphy (Frasnian-Famennian) in northwest Xinjiang, China, and eastern Australia in general.

Mazza, Michele. Biostratigraphy, taxonomy and systematic of the Middle and Upper Triassic conodonts and correlation of the conodont faunas between the Tethys and North America. High resolution biostratigraphy of the conodont record of the Pizzo Mondello succession (Monti Sicani, western Sicily, Italy). Carnian/Norian Boundary: definition of the GSSP for the Norian stage. Phylogeny and evolutionary patterns of the Upper Triassic pectiniform conodonts. Application of numerical cladistic analyses to the study of the pectiniform conodonts phylogenetic relationships. Study of the growth stages and ontogenetic patterns of the Upper Triassic pectiniform conodonts. X-ray microtomographies and ground sections of the conodont pectiniform elements for the study of the conodont ultrastructure. **Personal Items of Interest.** From December 2011: post-doc researcher (supervisor Prof. Alda Nicora).

McCracken, Alexander (Sandy) D. Continues to work on Middle to Upper Ordovician, Silurian and Devonian and conodonts from various locations in Canada.

Metcalfe, Ian. Biostratigraphic work on Permian-Triassic and P-T boundary conodonts in SE Asia, China and Western Australia continues. Ordovician and Carboniferous conodonts from Burma are currently being worked on and will be written up for publication soon. The Permian-Triassic boundary has been identified in Malaysia on the basis of conodont faunas and is being worked up for publication. Application of conodont studies to regional tectonics and palaeogeography in SE Asia continues (CAI, textural alteration, biogeography). SHRIMP-based oxygen isotope studies of Permian-Triassic conodonts from Australia and China continue.

Miller, C. Giles. A paper on Iranian Silurian conodont stratigraphy with Peep Mannik and Vachik Hairapetian has been finished and will be published this year. Peep was visiting again to finish the

second, more taxonomic part in April. Annalisa Ferretti visited in December 2012 for working on a paper on the Ordovician Rann Formation, Ayim Member. A new student Atilia Bashardin at Petronas University, Malaysia has started work on Lower Palaeozoic conodont faunas from the Malaysian Peninsula and is being supervised partly by me.

Miller, James F. Continuing to study Upper Cambrian conodonts, especially faunas related to proposed GSSP for base of highest Cambrian stage at FAD of *Eoconodontus notchpeakensis* (Miller, 1969) in Ibex Area of western Utah, USA. Working with Ray Ethington and others on conodont biostratigraphy across the Sauk—Tippecanoe Mebasequence boundary in continuously deposited sequences in western Utah, USA. Continuing to study conodont biostratigraphy of breccias associated with Paleozoic asteroid impacts in Missouri. Working with brachiopod and trilobite specialists to document biostratigraphic relationships among conodont, trilobite, and brachiopod faunas.

Mossoni, Angelo. PHD in Earth Science : Conodont biostratigraphy in the Famennian and comparison of extinction events in Sardinia and the Carnic Alps. Traineeship at the Natural History Museum working with conodonts from AMDEH Formation (Ordovician of Oman)

Narkiewicz, Katarzyna. Leader of the project “Biostratigraphy, palaeoecology and sedimentology of a unique transgressive level in the Middle Devonian of Belarus: regional aspects and global significance” started in 2012. The first stage of fieldwork was conducted in Poland together with the Belarussian workers from BelNIGRI in Minsk (Semen Kruchek – stratigrapher, Veronika Obukhovskaya – palynologist, Dimitr Plax – fish specialist). Selected intervals tentatively correlated with the late Eifelian Kačak Event were sampled in three wells from the Lublin Basin and in outcrops of the Holy Cross Mts. In November 2012 the account on the Mid-Eifelian conodont fauna was submitted in the framework of the final report of the project led by M. Narkiewicz, devoted to a comprehensive stratigraphic-palaeoecological study of the earliest tetrapod ichnofauna from the Holy Cross Mts. The age was constrained to the *costatus* Zone basing on the enlarged conodont collection. The paleoenvironmental study of the Lower Eifelian biota in the Zachełmie Quarry (Holy Cross Mts.) is being continued. The revision of the conodont species *Icriodus orri* Klapper et Barrick and its significance for the Eifelian biozonation basing on the Belarussian and U.S. (Michigan Basin) material is in preparation. The work continues also on the report on the dynamics of conodont biofacies at the onset of the Taghanic transgression (eustatic Ila cycle, *ansatus* Zone) in shallow-marine facies of SE Poland.

Nazarova, Valentina M. Continuing study on Devonian conodonts (mainly Icriodontidae) from the Russian Platform. Also interested in conodont functional morphology and paleobiology.

Nicora, Alda. Working on the conodont fauna of the Carboniferous-Triassic succession of Central Iran and on the conodont fauna of the Permian-Triassic succession of SE Pamir, Tajikistan.

Nowlan, Godfrey. Continue to write reports for samples submitted to laboratory. Currently working on Ordovician and Silurian conodonts from Williston and Hudson Bay basins in Manitoba, Cambrian and Ordovician conodonts from western Newfoundland, Cambrian to Silurian conodonts from northern regions including the Mackenzie Valley and Victoria Island. Also working with Carole Burrow and Sue Turner on fish recovered from the Arisaig region of Nova Scotia (manuscript completed).

Orchard, Michael. Carnian-Norian Boundary: new taxonomy and biozonation. Middle Triassic *Neogondolella*. Triassic GSSPs. Triassic multielement reconstructions. Late Paleozoic of Cordilleran terranes.

Ortega, Gladys. Continues with her projects on taxonomy and biostratigraphy of Tremadocian graptolites from the Zenta Range of the Eastern Cordillera, and Darriwilian faunas from Lina Range, western Puna region, in northwestern Argentina. Ordovician (Floian to Katian) graptolites from the Precordillera of San Juan, western Argentina, are incorporated in other of her projects as well. She is co-supervising the scholarship programs of M.E. Giuliano, F. Serra, and N. Feltes supported by the FONCyT and CONICET. She participated with G. Albanesi as guest editor of a special volume of *Geological Journal* entitled ‘Lower Palaeozoic fossils, biostratigraphy and events from western Gondwana’. She is involved in the organization of the IGCP 591 regional field meeting and the 3rd

International Conodont Symposium to be held in Mendoza, Argentina, July, 2013, and continues with her activities at the Museum of Paleontology.

Over, Jeff. Conodonts and associated ash horizons from the Upper Devonian of Europe and North America with Mark Schmitz and Vladimer Davydov at Boise State University; D-C boundary in Indiana and Kentucky; D-C boundary in Oklahoma; conodonts in the Middle and Upper Devonian of New York, Ohio, Alberta, and British Columbia; O-S and Middle Devonian conodonts from southwestern Mongolia.

Percival, Ian. Continued documentation of Early and Middle Ordovician conodonts in deep water cherts from eastern Australia.

Perri, Maria Cristina. Devonian to Lower Carboniferous and the uppermost Permian–Lower Triassic conodont biostratigraphy.

Piecha, Matthias. Working on biostratigraphy of Devonian and Carboniferous conodonts from the Rhenish Massif.

Plasencia Camps, Pablo. Currently working on Late Permian–Early Triassic conodonts, and their paleobiology and paleobiogeography. Also continuing to work with Middle Triassic conodonts.

Pondrelli, Monica. Geological mapping of the Ordovician to Lower Carboniferous succession of the Carnic Alps. Analysis of selected Pragian to Tournaisian stratigraphic sections in the Carnic Alps with the ultimate goal to reconstruct the depositional architecture and to infer the controls on the system.

Qi, Yuping. Continue to work with James E. Barrick, Tamara I. Nemyrovska, Lance L. Lambert on Carboniferous conodonts from South China. Continue to work with Gabriella Bagnoli on Cambrian conodonts from South, North and Northeast China.

Randon, Carine. Still working on Devonian/Carboniferous conodonts.

Repetski, John. Continue working on Cambrian, Ordovician, and Devonian conodont biostratigraphy, USA and elsewhere, with numerous colleagues; CAI and systematics; CAI maps and Ordovician and Devonian biostratigraphy of black shales in eastern U.S. basins; biostratigraphic support for USGS and other mapping projects, mostly Cambrian to Carboniferous; paleogeographic studies relating North American Lower Paleozoic faunas to those of other paleocontinents; conodont studies of impact structures; also age-dating of faunas and studies of Cambrian and Ordovician phosphatic problematica.

Personal Items of Interest. Continued service on the Pander and Hinde Medal committee, with Susana Garcia-Lopez and Cheng-yuan Wang. The committee considers nominations (and supporting materials) on behalf of worthy candidates for these awards. Please contact any of the committee members with nominations or for guidance.

Rigo, Manuel. His research experience, during the last years, concerned mostly the study of Triassic stratigraphy, especially that involving Triassic conodonts under biostratigraphical and geochemical point of view. He is open to and very interested in all new ideas and research methods and he worked very successfully with teams of Italian and international Triassic stratigraphers. He deals with a broad range of geological research, e.g. precise biostratigraphic dating of radiometric, palaeomagnetic and stable isotope samples from the Lagonegro Basin and from Sicani palaeogeographic realm in western Sicily. He has worked with great success on the biofacies interpretation of Triassic conodonts and his results are very important for establishing the palaeogeographic reconstruction of the Neotethys s.s. Recently he focused his interest in the Norian/Rhaetian and Triassic/Jurassic boundaries, studying the consequences of the CAMP on life and environments. He is working in micropaleontology and stratigraphy: 1) taxonomic and biostratigraphic studies carried out on conodonts of Late Triassic; 2) geochemical analyses on biogenetic apatite by pyrolysis (Oxygen and Sr) and in situ (Oxygen with SHRIMP II); 3) paleoclimatology of Triassic and lower Jurassic.

Sandberg, Charles A. 1) Updating outdated taxonomic identifications and adding new collections to computerized D/C Conodont Database, which now contains more than 1400 entries, ranging in age from Ordovician to Permian. (2) Processing and identifying Late Ordovician, Devonian, Mississippian, Pennsylvanian, and Early Permian conodont samples collected by F.G. (Barney) Poole in Sonora, Mexico. (3) With Barney, last July was submitted for Survey approval a paper on a Devonian and Mississippian olistostrome in the Bisoni-McKay area, northern Nevada. Plan to submit

in February 2013 a professional paper on the Warm Springs-Milk Spring area, containing olistoliths and channel deposits related to the Devonian Alamo Impact in central Nevada. Both reports represent the culmination of more than 20 years of research and each is documented by 50–60 conodont samples ranging from Silurian to Permian. (4) Submitted two papers with Carl Stock, one to Journal of Paleontology debunking a supposed Famennian occurrence of stromatoporoids in northern Wyoming and the other to Palaios correcting stromatoporoid data but confirming by conodont evidence an early Famennian Middle *crepida* Zone age for a stromatoporoid occurrence in Utah. (5) With Carl Stock also studying occurrences, with conodonts, of stromatoporoids, including possible *Amphipora*, in western Utah. **Personal Items of Interest.** Reduced government funding for the U.S. Geological Survey caused to lose a third of office space in August 2012. In the spring of 2013, I will either lose my conodont laboratory or have to move it to another part of the same building. Accordingly, many of my partly processed samples, in-progress microfossil slides, and unprocessed bulk samples will be either discarded or inaccessibly stored. Some of my unprocessed samples from a 1971 collecting trip to Europe come from important quarries that no longer are accessible because they have been filled with garbage. Another problem is that the government is converting to newly designed cloud form of Gmail. This is difficult to use for composing or receiving complex paleontologic messages. Hence, I would suggest that my home e-mail address (conodonts@comcast.net) be used as first choice for future contact.

Sanz-Lopez, Javier. CAI studies in the Cantabrian Mountains (with S. Blanco-Ferrera and S. Garcia-Lopez), textural alteration (with S. Blanco-Ferrera), Mississippian conodonts, particularly *Gnathodus* species (with S. Blanco-Ferrera and M.-F. Perret) from Cantabrian Mountains particularly around the Viséan–Serpukhovian boundary, *Declinognathodus* evolution and lower Bashkirian conodonts from the Cantabrian Mountains and the Pyrenees (with S. Blanco-Ferrera), Bahskirian/Moscovian and Moscovian/Kasimovian boundaries in the Cantabrian Mountains.

Savage, Norman. Late Devonian of Southeast Asia; Early Triassic of Thailand.

Simpson, Andrew. Since the last Pander Society Newsletter, I have published (with the late Peter Molloy) an analysis of conodont data through the Ireviken Event (spanning the Early Silurian–Middle Silurian boundary) on Boree Creek, New South Wales. It appeared in the UNESCO/International Year of Planet Earth volume, *Earth and Life*, published by Springer Science and Media (Dordrecht). My next opus will be completing documenting the elegant conodont faunas on which this analysis was based.

Slavík, Ladislav. Work on a long-term project: Integrated stratigraphy of the late Silurian in the Prague Synform. Start of a new 3-year project: Hi-res correlation and dating of Mid-Palaeozoic sedimentary sequences of Peri-Gondwana using integrated biostratigraphy and chemo-physical methods.

Sloan, Terry. Unfortunately no recent conodont activity. **Personal Items of Interest.** Appointed Higher Degree Research Director.

Snider, Avalon. Nonprofessional interest in all things conodont. Keeps up with latest research and news on the subject. Future aspirations: to do own conodont research and publish findings. Currently working as a voluntary research assistant at Plymouth University. Research on benthic foraminifera to describe the palaeoenvironmental changes across the M/P boundary in S. Turkey. Envisaged that work will be published in an international journal.

Spalletta, Claudia. Research continues on Late Devonian and Early Carboniferous conodonts mainly from the Carnic Alps and Sardinia. At last the study on the Frasnian–Famennian boundary beds is near conclusion. Studies on Late Devonian events, and on conodonts from the interval across the Devonian–Carboniferous boundary are also in progress. Collaboration in the project for the formal definition of the pre-Variscan lithostratigraphic units of the Carnic Alps is continuing.

Sullivan, Nicholas. Biostratigraphy, paleoecology, and taxonomy of Silurian-Devonian Conodonts. Temporal and spatial controls on marine authigenesis. Cratonic sequence stratigraphy. Ordovician, Silurian, and Devonian stratigraphy of the northeastern United States. Silurian chronostratigraphy and $\delta^{13}\text{C}$ chemostratigraphy. **Personal Items of Interest.** Currently engaged in a project at the Wisconsin

Geological and Natural History Survey focused on refining Silurian chronostratigraphic correlations in the lower 48 United States.

Sun, Yadong. Oxygen isotope of conodont, Permian and Triassic conodont biostratigraphy.

Suttner, Thomas J. Devonian of the Carnic Alps, special focus: Kacak Event; Mid-Late Devonian of Western Mongolia.

Sweet, Walter. No report was given.

Talent, John A. Only minor results this year.

Tarabukin, Vladimir P. Stratigraphy, conodont zonation, paleoecology, paleobiography and CAI.

Trotter, Julie. Determining Palaeozoic and early Mesozoic palaeoseawater temperatures from in-situ $\delta^{18}\text{O}$ analyses of conodonts, using the ANU SHRIMP II ion microprobe.

Uyeno, Tom. Continued study of late Eifelian conodonts from the type Hume Formation of District of Mackenzie, northern Canada.

Valenzuela Rios, José Ignacio. Main work on Lower Devonian, Givetian and Frasnian Biostratigraphy, Chronostratigraphy and Biofacies. Beginning the study of Events in the Pyrenees with conodonts as the most precise time-constrain tool. Main studied collections from Spain (Pyrenees, Iberian Chains, Ossa-Morena), Nevada, Bohemia and Zinzilban. Begin with palaeobiogeographical studies on Lochkovian, Givetian and Frasnian. Special interest on S/D Boundary; together with Mike Murphy, Peter Carls and Karsten Weddige. Joint Silurian work with Carlo Corradini and Maria Corrigan. Lower Devonian together with Mike Murphy, Peter Carls, Ladislav Slavík, Nadya Izokh and Karsten Weddige. Givetian and Frasnian together with Jau-Chyn (Teresa) Liao and Sofie Gouwy. Cooperation envisaged with Thomas Suttner and Erika Kido.

Voldman, Gustavo G. Taxonomic, biostratigraphic, and thermal alteration studies of conodonts from the Ordovician basins of Northwestern Argentina.

Wang Lina. Conodont research on Permian-Triassic boundary, mainly focused on correlation between Tethys region and Neotethys area.

Wang, Zhihao. Still working on conodonts in the institute of Chinese Academy of Sciences. **Personal Items of Interest.** Retirement.

Wardlaw, Bruce R. Integrated sequence stratigraphy and biostratigraphy (radiolarians, conodonts, foraminifers) of the Guadalupian (Permian) of West Texas. Late Pennsylvanian conodont biostratigraphy. Pennsylvanian-Permian succession in Marble Canyon, Death Valley, California. Apparatal reconstruction of some superbly preserved Middle Pennsylvanian conodont faunas from Iowa. The apparatus of the Permian coniform genus *Caenodontus*. **Personal Items of Interest.** Still Chief Paleontologist and Associate Director of the Eastern Geology and Paleoclimate Science Center of the U.S. Geological Survey.

Woroncowa-Marcinowska, Tatiana. Paleontological and stratigraphical investigations of Middle and Upper Devonian conodont biostratigraphy of the Holy Cross Mts. Now especially the uppermost Famennian. The work about Givetian conodont biostratigraphy of the Łysogóry region (Holy Cross Mts.) is in progress.

Yao Jianxin. Working on Late Paleozoic and Triassic conodonts of the South China, Tarim and Tibet in China.

Zhang, Huaqiao. Histology of paraconodonts and the earliest euconodonts from the Middle and Upper Cambrian of western Hunan, South China. **Personal Items of Interest.** I completed my postdoctoral project in Prof. Xi-ping Dong's lab in Peking University in July and was employed in August as an associate researcher in Prof. Xunlai Yuan's lab in NIGPAS.

Zhang, Shunxin. During 2012 her research focused on biostratigraphy and petroleum potential in Hudson Bay and Foxe Basin. She has worked on the Late Ordovician conodont biostratigraphy on Southampton Island, Melville Peninsula, and southern Baffin Island in the Arctic area; she has also worked on the Late Ordovician and Early Silurian conodonts (taxonomy and CAI) from limestone xenoliths on Hall Peninsula, Baffin Island, and used the conodont data to estimate the thickness of eroded Paleozoic strata and the kimberlite temperature.

Zhuravlev, Andrey. Devonian-Permian conodonts of the East European Platform and North Urals. Main attention is paid to conodont palaeobiology, including histology. Conodont biomineralization and ultrastructure are studied in collaboration with Dr Elena Rosseeva (Germany). X-ray microtomography and microradiography are used for histological investigations of the conodont elements, morphology of the fused clusters, and searching for the conodont apparatuses in the clayey and cherty deposits.

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