

9th International Symposium Cephalopods – Present and Past

in combination with the

5th International Symposium Coleoid Cephalopods through Time

Schedule of events and timetable of presentations

Thursday, September 4th to Saturday, September 6th 2014

Pre-conference field-trip

Mesozoic Fossilagerstätten of the Jurassic of southern Germany

Guides: Günter Schweigert, Annette Schmid-Röhl, Christian Klug

Thursday, 04.09.2014, 9.00 am - departure from Zürich, meeting point: entry Zoological Museum

Saturday, 06.09.2014, 7.00 pm - arrival at Zürich, entry Zoological Museum

Saturday, September 6th 2014

Evening and night: Lange Nacht der Museen

This evening, most museums in Zurich are open to the public. You can get one ticket, which is valid for all museums + public transport from 6 pm to 2 am (Sunday). **Tickets are not included in the conference fee and have to be purchased at the museum entrance.**

Lectures

Sunday, September 7th 2014

09.00-10.00 **Registration** (at the entrance of the Palaeontological Institute:
http://www.plaene.uzh.ch/floormaps/KOL_D.png)
Coffee (Lichthof: http://www.plaene.uzh.ch/floormaps/KOL_D.png)

KO2-F-180: http://www.plaene.uzh.ch/floormaps/KOL_D.png

10.00-10.15 **Welcome and introductory remarks**

Session 1: Evolution

Chair: Christian Klug, Björn Kröger

10.15-10.30 **Key note: The palaeogeography of the initial cephalopod diversification during the Cambro-Ordovician**
Björn Kröger (Finnish Museum of Natural History, Helsinki)

10.30-10.45 **Tracing key innovations and the tempo of cephalopod evolution using molecular paleobiology**
Jakob Vinther (Schools of Biological and Earth Sciences, Bristol), Dirk Fuchs (Earth and Planetary System Science, Sapporo) & Björn Kröger (Finnish Museum of Natural History, Helsinki)

10.45-11.00 **Origin and evolution of the Gephuroceratina (Ammonoidea, Agoniatitida)**
R. Thomas Becker (Westfälische Wilhelms-Universität Münster)

11.00-11.15 **A model for speciation in ammonoid cephalopods**
Margaret M. Yacobucci (Bowling Green State University, Ohio)

11.15-11.30 **Morphological changes of the genus *Baculites* from the Coniacian to lower Campanian in Japan**
Yasuyuki Tsujino (Tokushima Prefectural Museum, Tokushima) & Haruyoshi Maeda (The Kyushu University Museum, Fukuoka)

11.30-11.45 **Complete dorsal ammonoid shell - A facultative character of phylogenetic importance?**
Gregor Radtke (Free University Berlin)

11.45-12.00 **The evolution of ammonites versus eustatic variations: case study from the Aptian from the NW Tethyan margin**
Antoine Pictet (University of Lausanne)

12.00-13.30 **Lunch**

Session 2: Ontogeny

Chair: Neil H. Landman, Ryoji Wani

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- 13.30-13.45 **Key note: Iterative ontogenetic development of ammonoid conch shapes from the Devonian through to the Jurassic**
Sonny A. Walton & Dieter Korn (both Museum für Naturkunde Berlin)
- 13.45-14.00 **Early ontogeny of Silurian tarphycerid Ophioceras; a comparison with some other tarphycerids and earliest nautilids**
Vojtěch Turek (National Museum, Praha) & Štěpán Manda (Czech Geological Survey, Praha)
- 14.00-14.15 **Early ontogeny of well preserved ammonoids from the Middle Devonian Cherry Valley Limestone (NY, USA)**
Susan M. Klofak (American Museum of Natural History & City College of the City of New York, New York) & Neil H. Landman (American Museum of Natural History, New York)
- 14.15-14.30 **Ontogenetic morphometry, taxonomy and biogeographic aspects of Famennian (Upper Devonian) Prionoceratidae**
Tobias Fischer & R. Thomas Becker (both Westfälische Wilhelms-Universität Münster)
- 14.30-14.45 **Cladistic coding of ontogeny: application with the Amaltheidae (Lower Jurassic)**
Jérémie Bardin, Isabelle Rouge, Fabrizio Cecca (all Sorbonne Universités, UPMC Univ Paris 06, Paris)
- 14.45-15.00 **Sutural complexity covaries with whorl shape: evidence from the intraspecific analyses of Cretaceous desmoceratid ammonoid from Madagascar**
Daisuke Aiba & Ryoji Wani (both Yokohama National University)
- 14.45-15.00 **Relationship between ontogenetic change in shell shape and aperture map in ammonoids**
Takao Ubukata (Kyoto University)
- 15.00-16.00 **Coffee and poster session**

Session 3: Methods, tomography, 3D, History

Chair: Rene Hoffmann, Isabelle Kruta

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- 16.00-16.15 **Key note: Advances in paleobiological reconstructions in cephalopods**
Isabelle Kruta (American Museum of Natural History, New York)
- 16.15-16.30 **New Insights into Ammonite Palaeobiology from Tomographic Data**
Robert Lemanis (Ruhr-Universität Bochum), Rene Hoffmann (Ruhr-Universität Bochum) & Stefan Zachow (Zuse Institute, Berlin)
- 16.30-16.45 **Virtually reconstructed growth trajectories and buoyancy of some major Palaeozoic ammonoid clades**
Carole Naglik, Amane Tajika & Christian Klug (all University of Zürich)
- 16.45-17.00 **CONCH - new software for quantitative morphological analyses of ammonite shells**
René Hoffmann (Ruhr-Universität Bochum) & Peter Göddertz (Steinmann-Institut für Geologie, Mineralogie und Paläontologie Bonn)
- 17.00-17.15 **3-dimensional analysis of the middle jurassic ammonite normannites and its functional morphology**
Amane Tajika, Carole Naglik & Christian Klug (all University of Zürich)
- 17.15-17.30 **Early ideas about fossil cephalopods**
Walter Etter (Naturhistorisches Museum Basel)
- 18.00-22.00 **Icebreaker party with Apéro riche**
Zoological Museum

Monday, September 8th 2014

Session 4: Palaeozoic

Chair: Kenneth De Baets & Dieter Korn

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- 09.00-09.15 **Key note: The taxonomic geometry of the Palaeozoic ammonoids**
Dieter Korn (Humboldt-Universität zu Berlin), Björn Kröger (Finnish Museum of Natural History), August Ilg (affiliation)
- 09.15-09.30 **The Endocerida – are the Lower Palaeozoic ‘gas pipes’ viable or not?**
Andy King (Geckoella environmental consultants, , Taunton, Somerset)
- 09.30-09.45 **Latitudinal shifts of Palaeozoic marine invertebrate gigantism and global change**
Christian Klug (University of Zürich), Kenneth De Baets (Universität Erlangen), Björn Kröger (Finnish Museum of Natural History), Mark A. Bell (University College London), Dieter Korn (Humboldt-Universität zu Berlin) & Jonathan L. Payne (Stanford University)
- 09.45-10.00 **New records of silurian ascocerids from the Prague Basin (Bohemia) and their significance**
Martina Aubrechtová & Ladislav Zedník (both Charles University in Prague)
- 10.00-10.15 **Untangling the Striae: Ammonoid Biostratigraphy of the Carboniferous Shannon Basin, Western Ireland**
Anthea Lacchia (Trinity College Dublin)
- 10.15-10.45 **Coffee and poster session**

Session 5: Triassic (organized and supported by the Subcommittee on Triassic Stratigraphy)

Chair: Hugo Bucher & Marco Balini

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- 10.45-11.00 **Key note: The timing of cephalopods survival after the Permian-Triassic mass extinction**
Hugo Bucher, Max Meier & David Ware (all University of Zürich)
- 11.00-11.15 **Intraspecific variability among Ophiceratidae Arthaber, 1911 (Ammonoidea, Early Triassic) from NE Greenland: implications for taxonomy and diversity in the immediate aftermath of the Permian-Triassic boundary mass extinction**
Max Meier & Hugo Bucher (both University of Zürich)
- 11.15-11.30 **High resolution biostratigraphy and biodiversity dynamics of Dienerian (Early Triassic) ammonoids from the Northern Indian Margin**
David Ware & Hugo Bucher (both University of Zürich)
- 11.30-11.45 **Additional information on Spathian (late Olenekian) ammonoids from South Primorye and their palaeobiogeographic significance**
Yuri Zakharov, Olga P. Smyshlyaeva & Alexander M. Popov (all Far Eastern Geological Institute of Russian Academy of Sciences, Vladivostok)
- 11.45-12.00 **Evolutionary trends of ammonoids during the Triassic in a Boreal basin (Canada)**
Claude Monnet (University of Lille)
- 12.00-12.15 **New Trachyceratidae from the Upper Ladinian (Middle Triassic) of Guizhou, China, and their paleobiogeographic relationships**
Marco Balini (Università degli Studi di Milano), Xiaodong Zou (Peking University), Da-yong Jiang (Peking University), Zuo-yu Sun (Peking University) & Yuan-lin Sun (Peking University)
- 12.15-12.30 **Key note: Geographic differentiation of the Late Triassic nautilids and biogeographic zoning of Late Triassic marine basins**
Evgeny S. Sobolev (Trofimuk Institute of Petroleum Geology and Geophysics SB RAS, Novosibirsk)
- 12.30-14.00 **Lunch**

Session 6: Jurassic

Chair: Günter Schweigert & Horacio Parent

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- 14.00-14.15 **Key note: Ammonite aptychi: functions and sexual dimorphism**
Horacio Parent (Universidad Nacional de Rosario) & Gerd E.G. Westermann (Burlington, Canada)
- 14.15-14.30 **Biogeography of early Pliensbachian ammonites: integrating distribution, phylogeny and morphology**
Axelle Zacaï (Université de Bourgogne), Emmanuel Fara (Université de Bourgogne), Arnaud Brayard (Université de Bourgogne), Jean-Louis Dommergues (Université de Bourgogne), Christian Meister (Muséum d'Histoire Naturelle de Genève) & Bruno Vrielynck (Université Pierre et Marie Curie - Paris 6)
- 14.30-14.45 **The Callovian and Upper Jurassic of Western Siberia and West European classic stage standards: ammonite zonation and correspondence in lithostratigraphy and sequences**
Alexander Alifirov, Svetlana Meledina & Alexander Beisel (all Trofimuk Institute of Petroleum Geology and Geophysics SB RAS, Novosibirsk)
- 14.45-15.00 **Systematics, endemism and phylogeny of Indian proplanulids (Ammonoidea) from the Bathonian-Callovian of Kutch**
Rakhi Dutta & Subhendu Bardhan (both Jadavpur University, Kolkata)
- 15.00-15.15 **Age, Systematics and Palaeobiogeography of the Late Jurassic Ataxioceratid Ammonoids from Kutch, India: A New Light on Origin and Migration**
Arindam Roy (Geological Survey of India, Lucknow) & Subhendu Bardhan (Jadavpur University, Kolkata)
- 15.15-15.30 **Soft-tissue preservation in Jurassic ammonites from Central Russia**
Aleksandr Mironenko (Moscow)
- 15.30-15.45 **The systematic and taxonomic revision of the 'Pleydellia-group' ammonites from the Minette ironstones (Late Toarcian), southern Luxembourg**
Andrea Di Cencio (National Museum of Natural History, Luxembourg)
- 16.00-16.15 **Exceptional preservation of ammonites from the Late Jurassic Nusplingen Plattenkalk**
Günter Schweigert (Stuttgart)
- 16.15-17.00 **Coffee and poster session**

Session 7: Cretaceous I

Chair: Christina Ifrim & Margret Yacobucci

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- 17.00-17.15 **Key note: Muscle and mantle attachment marks and body chamber lengths indicative of diverse life styles of coexisted Aptian ammonites of the Russian Platform**
Larisa A. Doguzhaeva (Swedish Museum of Natural History, Stockholm)
- 17.15-17.30 **Speculations on ethology of some (turricone, colchicone) heteromorph ammonites**
Mikheil V. Kakabadze (Ivane Javakishvili Tbilisi State University)
- 17.30-17.45 **Ammonoid buccal mass and jaw apparatus: comparative morphology, functional morphology and taxonomic variation**
Kazushige Tanabe (University of Tokyo), Isabelle Kruta (American Museum of Natural History, New York) & Neil H. Landman (American Museum of Natural History, New York)
- 17.45-18.00 **Aptychi of the Boreal and Subboreal Middle Jurassic - Early Cretaceous ammonites: new records and review of published data**
Mikhail Rogov (Geological Institute of Russian Academy of Sciences, Moscow) & Aleksandr Mironenko (Moscow)

Tuesday, September 9th 2014

Session 8: Cretaceous II

Chair: Otilia Szives & Stijn Goolaerts

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- 09.00-09.15 **Reevaluation of the upper Maastrichtian ammonite biostratigraphy based on Discoscaphites occurrences along the Gulf Coastal Plain**
Ekaterina Larina (Brooklyn College, New York), Matthew Garb (Brooklyn College, New York), Neil Landman (American Museum of Natural History, New York), Remy Rovelli (Brooklyn College, New York), Corinne Myers (Harvard University, Cambridge, MA)
- 09.15-09.30 **Fluctuations of the oxygen minimum zone at the end of Oceanic Anoxic Event 2 and the response of ammonites: A case study from Mexico**
Christina Iffrim (Ruprecht-Karls-Universität, Heidelberg)
- 09.30-09.45 **Ammonites from the uppermost Campanian (Late Cretaceous) in Central Montana**
Jamie A. Brezina (South Dakota School of Mines & Technology, Rapid City) & Neal L. Larson (Larson Paleontology Unlimited, Hill City)
- 09.45-10.00 **Key note: Ammonites on the brink of extinction**
Neil H. Landman (American Museum of Natural History, New York), Stijn Goolaerts (Royal Belgian Institute of Natural Sciences, Brussels), John W.M. Jagt (Natuurhistorisch Museum Maastricht), Elena A. Jagt-Yazykova (Uniwersytet Opolski, Opole), Marcin Machalski (Instytut Paleobiologii, Warsaw) & Margaret Yacobucci (Bowling Green State University)
- 10.00-11.00 **Coffee and poster session**

Session 9: Ammonoid ecology

Chair: Benjamin J. Linzmeier & Alexander Lukeneder

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- 11.00-11.15 **Stable isotope evidence of habitat change during early ontogeny in Cretaceous *Hoploscaphites***
Benjamin J. Linzmeier (University of Wisconsin-Madison), Neil H. Landman (American Museum of Natural History, New York), Reinhard Kozdon (University of Wisconsin-Madison), Shanan E. Peters (University of Wisconsin-Madison) & John W. Valley (University of Wisconsin-Madison)
- 11.15-11.30 **Ammonoid Habitats and Life History**
Alexander Lukeneder (Natural History Museum, Vienna)
- 11.30-11.45 **Knowledge of parasitism in ammonoids: importance for paleoecology**
Kenneth De Baets (University Erlangen-Nuremberg), Helmut Keupp (Freie Universität Berlin) & Christian Klug (University of Zürich)
- 11.45-12.00 **Breaking the waves: suture line complexity indicates types of life style in nautiloids and ammonites**
Alexander Arkhipkin (Falkland Islands Fisheries Department)
- 12.00-12.15 **Studies compared in Westermann Morphospace with the goal of understanding ammonoid life mode**
Kathleen Ritterbush (University of Southern California, Los Angeles)
- 12.15-12.30 **Getting hooked: the role of a U-shaped body chamber in the shell of adult heteromorph ammonites**
Alexander Arkhipkin (Falkland Islands Fisheries Department)
- 12.30-14.00 **Lunch**

Session 10: Nautilida

Chair: Peter. D. Ward & Jiří Frank

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- 14.00-14.15 **An advanced workflow for taxonomic research: case study on Cretaceous Nautilids**
Jiří Frank (National Museum & Charles University, Prague)
- 14.15-14.30 ***Epicymatoceras*: an exotic evolute nautilid from the European latest Cretaceous that does it all different**
Stijn Goolaerts (Royal Belgian Institute of Natural Sciences, Brussels) & Jiří Frank (National Museum & Charles University, Prague)
- 14.30-14.45 **What about nautilids at the Cretaceous/Paleogene boundary?**
Stijn Goolaerts (Royal Belgian Institute of Natural Sciences, Brussels), John W.M. Jagt (Natuurhistorisch Museum Maastricht), Elena A. Jagt-Yazykova (Uniwersytet Opolski, Opole), Neil H. Landman (American Museum of Natural History, New York), Marcin Machalski (Instytut Paleobiologii, Warsaw) & Margaret Yacobucci (Bowling Green State University)
- 14.45-15.00 **Key note: *Allonautilus* and *Nautilus*: Post-Jurassic phylogeny, shift from shallow to deep water habitats based on isotopic evidence, new evidence concerning mode of life, and conservation issues**
Peter. D. Ward (University of Adelaide)
- 15.00-15.15 **A historical and modern approach to assess the current state of *Nautilus* populations in the Indo-Pacific**
Greg J. Barord (City University of New York), Andrew J. Dunstan (Queensland University), Anthony Ilano (San Carlos University), & Peter. D. Ward (University of Adelaide)
- 15.15-15.30 **Bioerosion in shells of the modern *Nautilus***
Barbara Seuss (Universität Erlangen-Nürnberg), Max Wisshak (Senckenberg am Meer, Wilhelmshaven), Royal H. Mapes (North Carolina Museum of Natural Sciences, Raleigh) & Neil H. Landman (American Museum of Natural History, New York)
- 15.30-15.45 **The study of the type series of *Nautilus pompilius* Linnaeus, 1758**
Svetlana V. Nikolaeva (Natural History Museum, London & Borissiak Paleontological Institute, Moscow)
- 15.45-16.15 **Coffee and poster session**

5th International Symposium Coleoid Cephalopods through Time

Session 11: Fossil Coleoidea

Chair: Dirk Fuchs & Royal H. Mapes

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- 16.15-16.30 **Key note: On the locomotion system of fossil Coleoidea (Cephalopoda) and its systematic and phylogenetic significance**
Dirk Fuchs (Hokkaido University, Sapporo), Christian Klug (University of Zürich), Helmut Tischlinger (Stammham, Germany) & Helmut Keupp (Freie Universität Berlin)
- 16.30-16.45 **Arm hooks of Early Carboniferous-Late Permian coleoids, and their phylogenetic implication**
Larisa A. Doguzhaeva (Swedish Museum of Natural History, Stockholm) & Royal H. Mapes (North Carolina Museum of Natural Sciences, Raleigh)
- 17.45-18.00 **Upper Paleozoic coleoids (Cephalopoda) from North America: Observations on their paleoecology, taphonomy and phylogeny**
Royal H. Mapes (North Carolina Museum of Natural Sciences, Raleigh) & Larisa A. Doguzhaeva (Swedish Museum of Natural History, Stockholm)
- 17.00-17.15 **Is *Proteroctopus ribeti* an Octopoda? Reappraisal of *Proteroctopus ribeti* characters in the light of X-ray microtomography**
Isabelle Rouget (Sorbonne Universités, UPMC Univ Paris 06), Isabelle Kruta (American Museum of Natural History, New York), Damien Germain (Sorbonne Universités, UPMC Univ Paris 06), Arnaud Brayard (Université de Bourgogne, Dijon), Sylvain Charbonnier (Sorbonne Universités, UPMC Univ Paris 06), Vincent Fernandez (European Synchrotron Radiation Facility, Grenoble), Neil H. Landman (American Museum of Natural History, New York) & Fabrizio Cecca (Sorbonne Universités, UPMC Univ Paris 06)
- 17.15-17.30 **Stanoliths and other microfossils associated with the Christian Malford Lagerstätte**
Malcolm B. Hart (Plymouth University), Alex De Jonghe (Plymouth University, Robertson: a CGG Company, Llandudno), Kevin N. Page (Plymouth University), Gregory D. Price (Plymouth University), Christopher W Smart (Plymouth University) & Philip R. Wilby (British Geological Survey, Nottingham)
- 17.30-17.45 **A review of biostratigraphy and palaeobiogeography of Boreal latest Jurassic–earliest Cretaceous belemnites**
Oksana S. Dzyuba (Trofimuk Institute of Petroleum Geology and Geophysics, Novosibirsk)
- 17.45-18.00 **The Cenozoic fossil record of the Coleoidea: an overview**
Dirk Fuchs (Hokkaido University, Sapporo), Yasuhiro Iba (Hokkaido University, Sapporo), Martin Kosták (Charles University in Prague), Alexander Lukeneder (Naturhistorisches Museum Wien), Alexander Nützel (Bayerische Staatssammlung München) & Patricia Weaver (North Carolina Museum of Natural Sciences, Raleigh)
- 18.00-19.30 Walk to the venue of the conference dinner, Aperitif
- 19.30-23.00 **Conference dinner**

Restaurant Weisser Wind
Altstadt, Oberdorf, Oberdorfstr. 20"

Wednesday, September 10th 2014

Session 12: Fossil coleoids: Belemnoids

Chair: Isabelle Rouget & Alexei Ippolitov

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- 09.00-09.15 **Key note: Early evolutionary history of belemnites, revisited: New perspectives from East Asia**
Yasuhiro Iba (Hokkaido University, Sapporo), Shin-ichi Sano (Fukui Prefectural Dinosaur Museum), Dirk Fuchs (Hokkaido University, Sapporo), Jingeng Sha (Nanjing Institute of Geology and Palaeontology), Jian Liu (Chengdu University of Technology) & Jörg Mutterlose (Ruhr-University Bochum)
- 09.15-09.30 **Belemnite "Doppellinien": myths and realities**
Alexei Ippolitov (Geological Institute of Russian Academy of Sciences, Moscow)

- 09.30-09.45 **Belemnitids as pelagic meso-predators evidenced by radula and fin preservation**
Christian Klug (University of Zurich), Günter Schweigert (Staatliches Museum für Naturkunde, Stuttgart), Dirk Fuchs (Hokkaido University, Sapporo), Helmut Tischlinger (Stammham, Germany) & Isabelle Kruta (American Museum of Natural History, New York)
- 09.45-10.00 **Diversity and palaeobiogeography of belemnites during the Early Jurassic**
Jean-Daniel Pinard (National Museum of Natural History, Luxembourg & University of Burgundy, Dijon), Pascal Neige (University of Burgundy, Dijon), Robert Weis (National Museum of Natural History, Luxembourg) & Emmanuel Fara (University of Burgundy, Dijon)
- 10.00-10.15 **Infracallosal belemnite stratigraphy of the Lower Callovian of East European Platform**
Alexei Ippolitov (Geological Institute of Russian Academy of Sciences, Moscow) & Denis Gulyaev (Interdepartmental Stratigraphical Committee (ISC) of Russia, Yaroslavl)
- 10.15-11.00 **Coffee and poster session**

Session 13: Recent coleoids I

Chair: Henk-Jan Hoving & Yasuhiro Iba

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- 11.30-11.45 **Key note: A Molecular Search for the Giant Squid**
Inger Winkelmann (University of Copenhagen), M. Jan Strugnell (La Trobe University, Bundoora) & MTP Gilbert (University of Copenhagen)
- 11.45-12.00 **Morphometry of the shell of *Spirula spirula* based on nano-CT data**
René Hoffmann (Ruhr-Universität Bochum)
- 12.00-12.15 ***Sepia*-type connecting rings and septa**
Larisa A. Doguzhaeva & Elena Dunca (both Swedish Museum of Natural History, Stockholm)
- 12.15-12.30 **Abrupt changes of distance between succeeding septa at the hatching event in modern *Sepia* and *Spirula***
Ayaka Yamaguchi, Yuichiro Kumada & Ryoji Wani (all Yokohama National University)
- 12.30-14.00 **Lunch**

Session 14: Recent coleoids II

Chair: Inger Winkelmann & Alexander Arkhipkin

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- 14.00-14.15 **Key note: Life Cycles of Deep-Sea Cephalopods: Past, Present and Future**
Henk-Jan Hoving (GEOMAR Helmholtz Centre for Ocean Research Kiel, Kiel)
- 14.15-14.30 **Shell construction during embryonic life of *Sepia officinalis*: what does it tell for evolution?**
Laure Bonnaud-Ponticelli (Museum National d'Histoire Naturelle, Paris) & Dirk Fuchs (Hokkaido University, Sapporo)
- 14.30-14.45 **Analysis of genetic variability and phylogeny of the oval squid *Sepioteuthis lessoniana* around Japan**
Satoshi Tomano (Hiroshima University), Yukio Ueta (Tokushima Agriculture, Forestry and Fisheries Technology Support Center, Naruto, Tokushima), Noriyasu Kasaoka (Nakayama Steel Works Ltd, Fukuoka) & Tetsuya Umino (Hiroshima University)
- 14.45-15.00 **'Tailed' coleoid cephalopods through time**
Alexander Arkhipkin (Falkland Islands Fisheries Department), Jean-Daniel Pinard (National Museum of Natural History, Luxembourg), Robert Weis (National Museum of Natural History, Luxembourg), Nino Mariotti (Sapienza University, Rome) & Zhanna Shcherbich (Falkland Islands Fisheries Department)
- 15.00-15.15 **All life-stages of the tropical arrow squid around the Sao Sebastiao Island, SE Brazil**
Maria A. Gasalla (University of São Paulo)

Post-conference field trip 1: Jurassic ammonoid localities of Switzerland

Bathonian and Oxfordian of Holderbank, Early Jurassic of Frick

Guide: Heinz Furrer

Thursday, 11.09.2014, 09.00

departure from Zürich, meeting point: entry Zoological Museum

Thursday, 11.09.2014, ca. 19.00

arrival at Zürich, entry Zoological Museum

Post-conference fieldtrip 2: Mesozoic ammonoid localities of Switzerland and eastern France

Guides: Walter Etter, Peter Kürsteiner, Karl Tschanz, Antoine Pictet, Peter Bitterli, Bernhard Hostettler, Christian Klug

Wednesday, 10.09.2014, 16.00

departure from Zürich, meeting point: entry Zoological Museum

Sunday, 14.09.2014, ca. 19.00

arrival at Zürich, entry Zoological Museum