

8th International Symposium Cephalopods – Present and Past

August 30 - September 3, 2010

Provisional Program

University of Burgundy _ CNRS

Dijon (France)



The *International Symposium, Cephalopods Present and Past* (ISCPP) brings together all scientists working on extant or extinct cephalopods. The diversity of this group of mollusks, together with its broad temporal and spatial distribution, makes it a successful model for addressing key scientific issues. 8th ISCPP will be held at the University of Burgundy, Dijon, France from August 30 to September 3, 2010.

Symposium Venue: University of Burgundy, Main Campus, Gabriel Building
6 boulevard Gabriel
F-21000 Dijon, France



Gabriel Building, main Campus, 6 boulevard Gabriel, University of Burgundy, F-21000 Dijon (France)

Brief schedule of the 8th International Symposium, Cephalopods – Present and Past

Tuesday, August 31, 2010

Registration

Opening address

Social events –

- Photo
- Icebreaker

Scientific events -

- Oral Sessions: Ontogeny
 Anatomy & Morphology
- Poster Session

Wednesday, September 1, 2010

Social events –

- Wine Testing Party

Scientific events -

- Oral Sessions: Behavior, Ecology & Paleoecology
- Poster Session

Thursday, September 2, 2010

Presentation of the candidates for the organization of the next International Symposium, Cephalopods – Present and Past (9ISCPP)

Social events –

- Farewell Dinner

Scientific events –

- Oral Sessions: Phylogeny & Systematic
 Evolutionary Patterns and Processes: from Micro- to Macroevolution
 Nautilus as an endangered species
- Poster Session

Friday, September 3, 2010

Closing Address

Vote for the organizer of the 9ISCPP

Scientific events –

- Oral Sessions: Paleobiogeography & Biostratigraphy
 Mass Extinctions and their Aftermaths
- Poster Session

Saturday, September 4, 2010

Fieldtrip #1 (optional): from 8:00am to 7:00pm

Sunday, September 5, 2010 to Wednesday, September 8, 2010

Fieldtrip #2 (optional): departure September 5, 8:00am, return September 8, 7:00pm

Detailed schedule of the symposium

Tuesday, August 31, 2010

9:00am. Starting of Registration at Symposium venue (University of Burgundy, Main Campus, Building Gabriel)

10:00am-10:30am • Opening address and general information

P. NEIGE & I. ROUGET

10:30am-11:15am • Keynote lecture

The molluscan shell: formation, origin, and evolution

F. MARIN (CNRS, Dijon – France)

ONTOGENY

Chairs: N.H. LANDMAN & K. TANABE

11:15am-11:30am

Morphogenesis in cephalopod embryos: description of slow changes using motion pictures

S. VON BOLETZKY

11:30am-11:45am

Internal Features of the Ammonitellas of some Tornoceratids from the Cherry Valley Limestone, New York State, U. S. A.

S.M. KLOFAK, N.H. LANDMAN

11:45am-12:00pm

Quantitative aspect of oocyte follicular epithelium development in two ecological groups of octopod

C.M. NIGMATULLIN

12:00pm-2:00pm • Lunch

2:00pm-2:15pm

Evo-Devo in early Ammonoidea: links between embryonic and post-embryonic ontogeny ?

K. DE BAETS, C. KLUG, D. KORN

2:15pm-2:30pm

Ontogeny of *Didymoceras* Hyatt, 1894, in the Late Cretaceous (Middle and Upper Campanian) U. S. Western Interior

S.D. JORGENSEN, N.L. LARSON, N.H. LANDMAN, W.A. COBBAN

2:30pm-2:45pm

The evidence of the maturity of genus *Angulithes* Montfort, 1812 (Cretaceous–Oligocene, Nautiloidea)

J. FRANK

ANATOMY & MORPHOLOGY

Chairs: V. BIZIKOV & C. KLUG

2:45pm-3:00pm

Did belemnoid coleoids have suckers?

D. FUCHS, S. VON BOLETZKY, H. TISCHLINGER

3:00pm-3:15pm

Sepia type of connecting rings

L.A. DOGUZHAEVA, H. MUTVEI

3:15pm-3:30pm

Pseudosutures in *Baculites mariasensis*

K. POLIZZOTTO

3:30pm-4:00pm • Afternoon Break

4:00pm-4:15pm

The microstructure and mineralogy of anaptychus-, aptychus-, and rhynchaptychus-type lower jaws in the Cretaceous Ammonoidea

K. TANABE, N.H. LANDMAN, I. KRUTA

4:15pm-4:30pm

Portable XRF instruments in the elemental analysis of ammonite shell and matrix

N.L. LARSON, L.A. LARSON, J. SHERMAN

4:30pm-4:45pm

Raup's shell coiling ammonoid morphospace, geometric alternatives and impact on disparity estimates

S. GERBER

4:45pm-5:00pm

A morphometric method for simultaneously describing whorl shape and its ontogenetic change in ammonoids

T. UBUKATA

5:00pm-5:30pm • Outdoor photo of the participants

5:30pm-7:00pm • Icebreaker and Poster Session

Wednesday, September 1, 2010

BEHAVIOR, ECOLOGY & PALEOECOLOGY

Chairs: N.H. LANDMAN & G. BELLO

9:00am-9:15am

Modifications and adaptations of arm use in *Octopus vulgaris*

M.J. KUBA, R.A. BYRNE, J. RICHTER, L. ZULLO, B. HOCHNER

9:15am-9:30am

Visual control of precision single arm use by *Octopus vulgaris*

T. GUTNICK, R.A. BYRNE, B. HOCHNER, M.J. KUBA

9:30am-9:45am

Constructing a language from skin displays of squid

J.A. MATHER

9:45am-10:00am

Evolutionary trends in sperm transfer and storage in cephalopods

A. ARKHIPKIN, V. LAPTIKHOVSKY, C. NIGMATULLIN

10:00am-10:15am

Seasonal trends of reproductive cycle of *Octopus vulgaris* in two environmental distinct coastal areas

S. LOURENÇO, A. MORENO, J. PEREIRA

10:15am-10:30am

New insights into the ecology and evolution of the *Ceratites* fauna of the Muschelkalk Basin from phylogenetic analysis

A.J. MCGOWAN

10:30am-11:00am • Morning Break & Poster Session

11:00am-11:15am

Population structure of Hawaiian Octopuses : *Octopus cyanea* (Gray, 1849) and *O. Oliveri* (Berry, 1914)

P.J. SIMION, C.E. BIRD, N. VELASCO, R.J. TOONEN

11:15am-11:30am

Abundance of pelagic cephalopods in the central Mediterranean Sea (Strait of Messina and southern Tyrrhenian Sea): information obtained from swordfish diet

T. ROMEO, C. PEDÀ, P. BATTAGLIA, P. CONSOLI, A. POTOSCHI, F. ANDALORO

11:30am-11:45am

A synthesis on Hg bioaccumulation in cephalopods

P. BUSTAMANTE, T. CHOUVELON, T. LACOUÉ-LABARTHE, J. SPITZ, F. CAURANT

11:45am-12:00pm

Isotopic signature for depth habitat of the late Cretaceous Nautiloid, *Eutrephoceras*

K. MORIYA, K. TANABE, H. NISHI, H. KAWAHATA

12:00pm-12:15pm

Paleobiological interpretation of the early Turonian (Late Cretaceous) *Pseudaspidoceras flexuosum* (Cephalopoda: Ammonitina)

C. IFRIM

12:15pm-12:30pm

Preferential peeling: ammonoid versus nautiloid shells from the Upper Carboniferous of Texas, USA

R. WANI, R.H. MAPES

12:30pm-2:00pm • Lunch

2:00pm-2:45pm • Keynote lecture

Mode of Life and Habitat of *Scaphites*

N.H. LANDMAN (AMNH, New York – USA)

2:45pm-3:00pm

Observations of *Baculites* from the lower Campanian, Western Interior

N.L. LARSON, S.D. JORGENSEN, J. SIME, M.A. WILSON, L.A. LARSON, P.D. TAYLOR

3:00pm-3:15pm

New ammonite data from the Lower Cretaceous Puez key-section in the Dolomites (Southern Alps; N-Italy; FWF project P20018-N10)

A. LUKENEDER

3:15pm-3:30pm

Taphonomy of dense concentrations of juvenile ammonoids in the Mancos Shale, east-central Utah, USA

D.A. STEPHEN, K.G. BYLUND, H.J. CARTER, P. GARCIA

3:30pm-3:45pm

Devonian and Carboniferous Ammonoid Faunas in the Uralian Ocean: paleoenvironments and migration pathways

S. NIKOLAEVA, V. KONOVALOVA, M. BOIKO

4:00pm • Depart to Beaune for the Wine Testing Party

Assemble at entrance of the Conference Hall, University of Burgundy

Return Dijon circa 7:30pm

Thursday, September 2, 2010

9:00am-9:45am • Keynote lecture

Homologization of structural parts of the shell in recent coleoidae

V. BIZIKOV (Russian Federal Research Institute of Marine Fisheries and Oceanography, Moscow – Russia)

PHYLOGENY & SYSTEMATIC

Chairs: M. YACOBUCCI & I. ROUGET

9:45am-10:00am

Rhabdobelus biodiversity from the Toarcian of Crimea and the problem of *Rhabdobelus-Pseudobelus* relationship

A.P. IPPOLITOV

10:00am-10:15am

Chalalabelus finds from the Middle Volgian of Moscow city and the nature of enigmatic Diplobelida

A.P. IPPOLITOV, V.A. BIZIKOV, M.A. ROGOV

10:15am-10:30am

A groenlandibelid spirulid from the Campanian/Maastrichtian of Vancouver Island (Canada)

D. FUCHS, H. KEUPP

10:30am-11:00am • Morning Break & Poster Session

11:00am-11:15am

Is the Endocerida polyphyletic? – A possible new order of lower Palaeozoic nautiloids

D.H. EVANS, A.H. KING

11:15am-11:30am

Reconstruction of the body plan and possible way of life of ancient nautiloid cephalopods

V.A. BIZIKOV, B. KRÖGER

11:30am-11:45am

Meta-analysis of character utility and phylogenetic information content in cladistic studies of ammonoids

M.M. YACOBUCCI

EVOLUTIONARY PATTERNS AND PROCESSES: FROM MICRO- TO MACROEVOLUTION

Chairs: E. FARA & D. KORN

11:45am-12:00pm

Devonian pearls and ammonoid-endoparasite coevolution

C. KLUG, K. DE BAETS, D. KORN

12:00pm-12:15pm

The chance of evolutionary success - the case of the oldest (Tournaisian) ceratitoid ammonoids (Prodromitidae, Tornoceratina)

T. BECKER

12:15pm-12:30pm

Recurrent patterns of covariation in ammonoid shell characters: how do they relate to growth dynamics?

S. URDY, N. GOUDEMANT, H. BUCHER, C. MONNET

12:30pm-2:00pm • Lunch

2:15pm-2:30pm

Evolution and morphologic trends in the Upper Cretaceous belemnite family Belemnitellidae Pavlow, 1914.

M. KOSTAK

2:30pm-2:45pm

Evolutionary pattern in the Upper Campanian (Upper Cretaceous) belemnites – an example of parallel evolution

Z. REMIN

2:45pm-3:00pm

Systematics, phylogeny and adaptive radiation in the squid of family Ommastrephidae

C.M. NIGMATULLIN

3:00pm-3:15pm

The phylogenetic distribution of extinctions in Early Jurassic ammonite communities
C. HARDY, E. FARA, P. NEIGE, J.L. DOMMERGUES

3:15pm-3:30pm

Temporal patterns in disparity and diversity of the Jurassic ammonoids of southern Germany
M. SIMON, D. KORN, S. KOENEMANN

3:30pm-3:45pm

Large-scale morphological evolutionary trends of Acrochordiceratidae (Ammonoidea, Middle Triassic) and Cope's rule
C. MONNET, H. BUCHER, J. GUEX, M. WASMER

3:45pm-4:15pm • Afternoon Break

NAUTILUS AS AN ENDANGERED SPECIES

Chairs: N.H. LANDMAN & R. MAPES

4:15pm-4:30pm

Is *Nautilus* an endangered taxon?
N.H. LANDMAN, R.H. MAPES

4:30pm-4:45pm

Nautilus pompilius fishing and population decline in the Philippines; a comparison with an unexploited Australian *Nautilus* population
A.J. DUNSTAN, O. SALIH, J. MARSHALL

4:45pm-5:00pm

Record of live specimens of Emperor Nautilus, *Nautilus pompilius* (Linnaeus 1758) from the east Andaman Sea, Thai waters
J. NABHITABHATA, K. WONGKAMHAENG

5:00pm-5:15pm

Nautilid conservation and international trade
P.S. De ANGELIS

5:15pm-5:30pm

Evolution and formation of *Nautilus macromphalus* nacre: biochemistry and proteomic of the shell organic matrix
B. MARIE, F. MARIN

5:30pm-6:00pm • Presentation of candidates for the organization of the next International Symposium, Cephalopods – Present and Past (9ISCPP)

7:00pm • Farewell Dinner at the 'Cellier de Clairvaux', Dijon

Friday, September 3, 2010

PALEOBIOGEOGRAPHY & BIOSTRATIGRAPHY

Chairs: M. KOSTAK & P. NEIGE

9:00am-9:15am

Early Carboniferous palaeogeography based on ammonoids
D. KORN

9:15am-9:30am

Controlling factors of the paleogeographic distribution of nautiloid cephalopods along the Northern Gondwana margin during the Silurian: a case study from the Carnic Alps (Austria)
K. HISTON

9:30am-9:45am

A macroecological study of early Pliensbachian ammonites from western Tethys and adjacent areas
E. FARA, J-L. DOMMERGUES, C. MEISTER, B. VRIELYNCK

9:45am-10:00am

Paleobiogeographical changes in ammonite faunas during the Pliensbachian-Toarcian interval (Early Jurassic)
G. DERA, P. NEIGE, J-L. DOMMERGUES, A. BRAYARD

10:00am-10:15am

Migration pathways of the late Campanian and Maastrichtian shallow facies ammonite *Sphenodiscus* in North America
C. IFRIM, W. STINNESBECK

10:15am-10:30am

Ammonite, inoceramid and nannofossil biostratigraphy across the Turonian-Coniacian boundary in the Aquitaine and Vocontian basins (France) and Diego Basin (Madagascar)
F. DIEBOLD, P. BENGTSON, J.A. LEES, I. WALASZCZYK

10:30am-11:30am • Morning Break & Poster Session

11:30am-11:45am

Dienerian (Early Triassic) ammonoid successions of the Tethys: preliminary results from Pakistan and India
D. WARE, H. BUCHER, T. BRÜHWILER, N. GOUEMAND

11:45am-12:00pm

Co-occurrence of ammonite and radiolarians from the Upper Cretaceous Izumi Group in southwestern part of Awaji Island, Hyogo Prefecture, southwest Japan
K. YOSHINO, A. MATSUOKA

12:00pm-12:15pm

Taxonomic and biostratigraphic analyses of the genus *Amaltheus*, Late Pliensbachian (Early Jurassic) ammonite, from East Asia
K. NAKADA, C. MEISTER, A. MATSUOKA

12:15pm-12:30pm

Cephalopods from the Jurassic 'Minette' Ironstone Formation of Luxembourg and Lorraine (NE Paris Basin) : an update
R. WEIS, N. MARIOTTI, A. DI CENCIO, A. FABER, D. FUCHS, S. GUÉRIN-FRANIATTE

12:30pm-2:00pm • Lunch

MASS EXTINCTIONS AND THEIR AFTERMATHS

Chairs: A. BRAYARD & D. KORN

2:00pm-2:15pm

Ammonite mass mortality (200 000 000 !!! specimens) as proxy for the Carnian Crisis (Taurus, Turkey) – 3D modelling of the Carnian Crisis (FWF Project P22109-B17)
S. MAYRHOFER

2:15pm-2:30pm

The ammonoid recovery after the end-Permian mass extinction: evidence from the Iran-Transcaucasia area, Siberia, Primorye, and Kazakhstan
Y.D. ZAKHAROV, N. MOUSAVI ABNAVI

2:30pm-2:45pm

Evolutionary significance of cephalopod egg size during mass extinctions
V. LAPTIKHOVSKY, M. ROGOV, S. NIKOLAEVA, A. ARKHIPKIN

2:45pm-3:00pm

The Devonian Nekton Revolution
C. KLUG, B. KRÖGER, W. KIESSLING, G.L. MULLINS, T. SERVAIS, J. FRYDA, D. KORN, S. TURNER

3:00pm-3:15pm

Extinction of the ammonoids: Chixculub impact or Deccan flood basalt volcanism?

S.GOOLAERTS

3:30pm-4:00pm • Closing Session, Vote for the organizer the 9ISCPP

Poster Session

Updated biostratigraphy of the Agrio Formation, Early Cretaceous of the Neuquen Basin, Argentina

B. AGUIRRE-URRETA & P.F. RAWSON

The role of cephalopods as a vector for the transfer of cadmium to swordfish in the Mediterranean Sea

S. ANCORA, N. BIANCHI, S. FORTINO, M.C. FOSSI, F. ANDALORO, T. ROMEO

Spectral analysis of Late Anisian (Middle Triassic) ammonoid faunas from Prezzo Limestone (Southern Alps)

M. BALINI

Late Albian (Early Cretaceous) ammonites (Cephalopoda, Ammonoidea) from the Provincial Formation of Cuba

R. BARRAGÁN-MANZO & O. SZIVES

Coniacian (Late Cretaceous) ammonoid fauna of eastern Utah, USA

K.G. BYLUND & D.A. STEPHEN

Early Triassic ammonoids from the Pahvant Range, Utah, USA

K.G. BYLUND, D.A. STEPHEN, A. BRAYARD, H. BUCHER, J. JENKS, R.D. MCSHINSKY

Testing indirect effects of fishing on the European squid *Loligo vulgaris* (Lamarck 1798)

M. CABANELLAS-REBOREDO, J. ALÓS, M. PALMER, B. MORALES-NIN, R. GRÄEL

The Floian eothonoceratid radiation in northwestern Argentina (southern Central Andean Basin)

M. CICHOWOLSKI & L.F. MARENGO

Stable isotopes in well-preserved shells of a methane seep fauna from the Upper Cretaceous (Campanian)

Pierre Shale, U.S. Western Interior

J.K. COCHRAN, N.H. LANDMAN, P.J. HARRIES, N.L. LARSON, M.P. GARB, S.M. KLOFAK, C. MYERS, J. BREZINA

Crioceratites and *Pseudothurmannia* (Ammonoidea) from the uppermost Hauterivian (Lower Cretaceous) of the Mediterranean region. Taxonomic and stratigraphic considerations

M. COMPANY, J. SANDOVAL, J.M. TAVERA

Global changes recorded in the Oxfordian Ammonite associations (Paris Basin, France)

P. COURVILLE & D. MARCHAND

Palaeobiology, stratigraphy and systematics of Early Emsian Ammonoidea from the Hunsruck Slate (Rhenish Massif, Germany)

K. DE BAETS, C. KLUG, D. KORN, C. BARTELS, M. POSCHMANN

Olcostephanidae (Cephalopoda, Ammonoidea) from the Taraises Formation (upper Valanginian, Peregrinus Zone) from Durango State, Mexico

C. GONZÁLES-ARREOLA & R. BARRAGÁN-MANZO

An Alpine immigrant: *Phragmoceras Broderip*, 1839 from the Silurian of the Carnic Alps (Austria)

K. HISTON

On the systematics of Lytoceratoidea (Jurassic-Cretaceous)

R. HOFFMANN

Morphometry and palaeopathology of Orthoceratida from the Middle and Upper Devonian of the Dra Valley (SW Morocco)

B. HUMBERG & R.T. BECKER

Anatomy and function of spines in post-Triassic ammonites

C. IFRIM, W. STINNESBECK, P. BENGTSON, G. SCHWEIGERT

Stramentum on ammonites from Mexican Late Cretaceous Platy Limestones

C. IFRIM, F.J. VEGA, W. STINNESBECK

Age determination using stylets in genus *Eledone*

Z. IKICA, S. KRSTULOVIC SIFNER, A. JOKSIMOVIC, M. PETRIC

Tethyan affinity of new Smithian (Early Triassic) ammonoids from Crittenden Springs, Elko County, Nevada (USA)

J. JENKS, A. BRAYARD, T. BRÜHWILER, H. BUCHER

Dienerian (Early Triassic) ammonoids from the Candelaria Formation, Mineral County, Nevada (USA)

J. JENKS, D. WARE & H. BUCHER

Early Cambrian *Volborthella* - is it Cephalopoda or Agmata?

G.N. KISELEV

First record of a belemnite preserved with beaks, arms and ink sac from the Nusplingen Lithographic Limestone (Kimmeridgian, SW Germany)

C. KLUG, G. SCHWEIGERT, D. FUCHS, G. DIETL

Parallel evolution controlled by adaptation and covariation in ammonoids (Cephalopoda)

C. KLUG, K. DE BAETS, C. MONNET

Middle Permian (Roadian) Cephalopods of the Volga-Urals Region

T.B. LEONOVA, I.S. BARSKOV, V.A. KONOVALOVA

Early ontogeny of a Late Carboniferous Bactritoid (Cephalopoda) from Kansas, USA

R.H. MAPES, S. VON BOLETZKY, L. DOGUZHAEVA

New records of Early Middle Jurassic belemnites in the French Subalpine Basin and their paleobiogeographic relevance

N. MARIOTTI, R. WEIS, A. CLEMENT, A. DI CENCIO

Central Russian ammonites at the Jurassic / Cretaceous boundary

V. MITTA & I. BOGOMOLOV

Ontogenèse et dimorphisme chez le genre *Puzosia* du Cénomanién inférieur dans le secteur Onilahy, Bassin de Morondava, Sud de Madagascar

H. RANDRIANALY & A.H. RASOMIARAMANANA

Changes in some Cretaceous ammonoid assemblages (planispirals versus heteromorphs) and their link to palaeoceanography and climate

S. REBOULET, F. GIRAUD, E. MATTIOLI, B. PITTET, B. GRESELLE, A. CARPENTIER

Fusiteuthis polonica – an intergeneric belemnite hybrid; proofs and discussion

Z. REMIN

Ammonite jaws at the base of the Danian (?) Hornerstown Formation, Monmouth County, New Jersey

R. ROVELLI, M.P. GARB, N.H. LANDMAN

Latest Toarcian-Earliest Bajocian (Jurassic) Grammocerotinae (Hildoceratidae, Ammonitina) of the western Tethys: palaeobiogeographic significance

J. SANDOVAL, M.H., HENRIQUES, M. URETA, R. CHANDLER

Aturia from the Miocene Paratethys: an exceptional window to nautilid habitat and lifestyle
J. SCHLÖGL, R. CHIRAT, V. BALTER, M.M. JOACHIMSKI, N. HUDÁKOVÁ, F. QUILLÉVÉRE

Quantification of ontogenetic change in Triassic ammonoids
M. SIMON & D. KORN

Late Cretaceous nautiloids from eastern Utah, USA
D.A. STEPHEN & K.G. BYLUND

New and additional records of Late Cretaceous octobrachiata coleoid jaws from the Western Interior Seaway and the Northwestern Pacific
K. TANABE, N.L. LARSON, Y. HIKIDA

Stable nitrogen isotope analysis of soft and hard tissues of three modern coleoid species *Sepia officinalis*, *Sepia latimanus*, and *Spirula spirula*
R. TSUDA, Y. CHIKARAISHI, N. OGAWA, Y. KASHIYAMA, N. OHKOUCI, K. TANABE

Biological response to damage of the phragmocone and siphuncle in recent nautiloid: *Nautilus pompilius* Linnaeus
Y. TSUJINO & Y. SHIGETA

A new Berriasian species of *Andiceras* Krantz from the Neuquén Basin, Mendoza, Argentina
V. VENNARI & B. AGUIRRE-URRETA

How useful are AFLPs to analyse population genetics of Cephalopoda?
K.M. WARNKE & E. ZIPPEL

Ammonoid and brachiopod fossils from the Pacific floor: evidence from the Upper Cretaceous of the Magellan Seamounts
Y.D. ZAKHAROV, M.E. MELNIKOV, A.M. POPOV, V.D. KHUDIK, T.A. PUNINA, S.P. PLETNEV

