

# IGCP 497 & IGCP 499 Final Meeting

## 20<sup>th</sup> International Senckenberg Conference & 2<sup>nd</sup> Geinitz Conference

*From Gondwana and Laurussia to Pangaea:  
Dynamic of Oceans and Supercontinents*

Frankfurt, Germany, September 30 – October 10, 2008

### Invitation

The organizing committee warmly invites you to attend the joint meeting of the IGCP 497 “*The Rheic Ocean: “Its Origin, Evolution and Correlatives”* and IGCP 499 “*Devonian Land-Sea Interactions: Evolution of Ecosystems and Climate*” DEVEC) “*From Gondwana and Laurussia to Pangaea: Dynamics of Oceans and Supercontinents*” in Frankfurt am Main, Germany, on September 30 – October 10, 2008.

During the congress, business meetings of IGCP 497 and 499 will be held. Germany has many excellent outcrops of Precambrian and especially of Palaeozoic rocks. A selection of exposures will be shown during the post-conference field trip (October 04 – 10, 2008).

### Hosts

The conference is jointly organized by the Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt am Main, and the Museum für Mineralogie und Geologie, Dresden. It will be hosted in Frankfurt am Main due to the courtesy of the Senckenbergische Naturforschende Gesellschaft (SNG).

### Organizers

Peter Königshof, Ulf Linnemann, Mandy Hofmann, Rainer Brocke, Eberhard Schindler, Volker Wilde

### Scientific Advisory Committee

Erdin Bozkurt, Middle East Technical University, Ankara, Turkey

Rainer Brocke, Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt am Main, Germany

Peter Königshof, Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt am Main, Germany

Petr Kraft, Charles University, Prague, Czech Republic

Jurga Lazauskiene, Geological Survey, Vilnius, Lithuania

Ulf Linnemann, Museum für Mineralogie und Geologie, Dresden, Germany

Richard Damian Nance, Ohio University, Athens, Ohio, USA

Eberhard Schindler, Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt am Main, Germany

Robin Strachan, University of Portsmouth, UK

Francisco Pereira, Universidade de Evora, Portugal

Volker Wilde, Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt am Main, Germany

Maarten de Wit, University of Cape Town, Rondebosch, South Africa

M. Namik Yalçın, Istanbul University, Istanbul, Turkey

## Dates and Deadlines

Deadline and payment for early registration  
(conference and post-conference field trip)

**Sunday, June 15, 2008**

Submission of abstracts (oral and poster presentations)

**Sunday, June 15, 2008**

Deadline and payment for late registration

**Monday, September 01, 2008**

Technical sessions

Wednesday to Friday, October  
01-03, 2008

Post-conference field trip

Start: Saturday, October 04, 2008  
in Frankfurt  
End: Friday, October 10, 2008 in  
Dresden  
(Departure from Dresden is  
possible on Saturday, October 11,  
2008 by train, by flight or by coach  
back to Frankfurt am Main)

## Venue

The congress will be opened at 8:30 am on Wednesday, October 01, 2008. The opening and the subsequent sessions on Wednesday morning will be held in university buildings (Room 3 and Room 4) at Campus Bockenheimer, Johann Wolfgang Goethe University. The campus is located within walking distance (3 minutes) of the Senckenberg Museum building. Icebreaker, public lecture, and reception will take place in the Dinosaur Hall of the Senckenberg Museum.

## Programme

The scientific programme of the conference comprises 3 days of invited plenary lectures, contributed lectures and poster presentations. If necessary, there will be two simultaneous sessions each day. The scientific programme has been planned according to 7 symposia, each including a keynote lecture. Please note that some of the symposia topics have been slightly changed since the First Circular. A keynote address will be given by the colleagues listed below.

2008	Tuesday, September 30	Wednesday, October 01	Thursday, October 02	Friday, October 03
Morning		Registration Opening ceremony Oral presentations and posters	Oral presentations and posters	Oral presentations and posters
Afternoon	Arrival and registration	Oral presentations and posters	Oral presentations and posters	Oral presentations and posters Awards and closure
Evening	Icebreaker	Public lecture	Reception	

### **Session 1: Orogenic Processes, Models and Palaeogeography of Supercontinents**

Keynote speaker: Brendan Murphy, Antigonish, Canada

### **Session 2: Origin and Evolution of the Rheic Ocean and its Correlatives: From Avalonian-Cadomian Orogenic Processes to Alleghenian-Variscan Collision**

Keynote speaker: Richard Damian Nance, Athens, Ohio, USA

### **Session 3: Palaeobiodiversity and Palaeoecology**

Keynote speaker: John Talent, Sydney, Australia

### **Session 4: Past Climate and Sea-Level Changes**

Keynote speaker: Carlton Brett, Cincinnati, Ohio, USA

### **Session 5: Neritic-Pelagic Correlation**

Keynote speaker: R. Thomas Becker, Münster, Germany

### **Session 6: Land-Sea Interactions**

Keynote speaker: Alain Blicq, Lille, France

### **Session 7: Diversification of Early Terrestrial Ecosystems**

Keynote speaker: John Marshall, Southampton, UK

## **Abstracts**

For inclusion in the abstract volume, authors of oral and poster presentations must submit an abstract by the cut-off deadline of June 15, 2008. For technical reasons, we would, however, appreciate earlier submission. Abstracts should be submitted to

Peter Königshof  
Forschungsinstitut und Naturmuseum Senckenberg  
Senckenberganlage 25  
60325 Frankfurt am Main  
Germany  
E-mail: [peter.koenigshof@senckenberg.de](mailto:peter.koenigshof@senckenberg.de)

in digital version attached to an E-mail or on a CD-ROM according to the guidelines below. Please submit also a hard copy of your abstract.

Abstracts should be prepared preferably in MS Word and saved in MS Word format or as rtf-files. They should not exceed two pages in length, including references, and figures. Plates will not be accepted. The abstract must be formatted as an A4 (210 x 297 mm) page with a 30 mm space at the top, 25 mm on the left, right and bottom margins.

Abstract example:

**Hangenberg Event at the Devonian–Carboniferous boundary  
in the Mt. Zermula area, Carnic Alps, Italy  
(Times New Roman 12 pt, bold)**

**Perri, M. C. and Spalletta, C. (Times New Roman 10 pt, bold)**

Dipartimento di Scienze della Terra e Geologico Ambientali,  
Università di Bologna, Via Zamboni 67,  
I-40126 Bologna, Italia (Times New Roman 10 pt)

Conodont biostratigraphic analysis in the Mt. Zermula area has indicated that a black shale horizon in the Upper Devonian–Lower Carboniferous limestone succession probably reflects the Hangenberg Event (Perri and Spalletta 2001), a well known global event at the top of the Devonian. The horizon can be referred to the Hangenberg Event (Walliser 1984, 1996) on the basis of the age attributed to the calcareous levels immediately below and above the shale, respectively Lower *praesulcata* Zone, upper Famennian, and *sulcata* Zone, base of the Tournaisian. (Times New Roman, 12 pt)

#### **References (Times New Roman 10 pt, bold)**

- Perri M.C., Spalletta C. (2001) Hangenberg Event al limite Devoniano/Carbonifero al Monte Zermula, Alpi Carniche, Italia. *Giornale di Geologia*, ser 3, **62** Supplemento: 31–40.
- Walliser O.H. (1984) Pleading for a natural D/C boundary. *Courier Forschungsinstitut Senckenberg*, **67**: 241–246.
- Walliser O.H. (1996) Global event in the Devonian and Carboniferous. In: Walliser, O.H. (Ed.), *Global events and event stratigraphy*. 225–250 (Springer Verlag, Berlin). (Times New Roman, 10 pt)

All figures must be embedded within the digital file, formatted at the correct size, and positioned within text flow as required.

### **Oral and Poster Presentations**

Regular oral presentations will be scheduled for a maximum of 20 minutes (15 minutes presentation and 5 minutes discussion).

The format of posters will be A0 (84 cm wide and 119 cm high). Please indicate your preference for presentation (oral or poster) on the registration form. The final decision, however, will be made by the scientific organizing committee.

The official language of the congress is English. Regrettably, any simultaneous translation cannot be provided.

### **Student Poster Award**

All students presenting a poster as first author are eligible for a Student Poster Award.

### **Publication**

We are presently negotiating venues for publishing papers emanating from the conference. On your registration forms you are asked to indicate if you would like to submit a paper for publication in general, but this does not guarantee a chance for submission at the moment. Those indicating their interest will receive further information. This information will also be added later on the website (<http://www.senckenberg/igcp-499>).

### **Post-conference Field Trip**

A 7 day post-conference field trip will present excellent outcrops in the Rheno-Hercynian Zone (Rhenish Massif, Avalonia, Laurussia), Mid-German Crystalline Zone (suture of Rheic Ocean), and the Saxo-Thuringian Zone (Bohemian Massif, Cadomia, Gondwana). The field trip starts in Frankfurt and ends in Dresden. On October 11, we will provide a possibility to go back to Frankfurt by coach without extra charge. The price of the entire post-conference field trip will be **780,- Euro**. The costs will cover the transportation, accomodation, and food (breakfast and dinner) during the trip, including lunch packages with non-alcoholic drinks. However, beverages in hotels are on your own account. In case vegetarian food is preferred, please tick on the registration form.

### **Saturday, October 04, 2008**

Field trip “Middle Rhine valley”,

Field trip guides: Andreas Schäfer, Johannes Stets

Objective:

Land-sea transition and shallow marine environments near to the northern margin of the Rheohercynian Basin (Rheinisches Schiefergebirge).

The main target of this field trip is the land-sea transition zone near to the northern margin of the Rheohercynian Basin, in northern part of the Variscan mountain belt. Along the Middle Rhine valley, a pile of siliciclastic fine- to medium-grained sediments of 3000-5000 m thickness can be studied. Fluvial, deltaic, tidal, and subtidal environments will be presented in splendid outcrops between Bonn and Koblenz. The sedimentary rocks belong to the Siegenian (Early Devonian) of the Rhenish Magna Facies and are subdivided into two major facies units. These are the “Siegenian Normal Facies” in the North and the “Hunsrückschiefer” in the South, separated from each other by the “Siegen Main Thrust”. Sediments of the Rheohercynian basin fill were delivered from the adjacent Old Red Continent to the North that was the main source area at this time. The field trip gives opportunity to discuss in detail structure and facies relationships of the Rheohercynian Basin.

Overnight stay in **Weilburg**

### **Sunday and Monday, October 05-06, 2008**

Field trip “Volcanism and reef development (Lahn-Dill area, Rheinisches Schiefergebirge)”

Field trip guides: Peter Königshof, Dieter Nesbor, Heiner Flick, Martin Salamon, Eberhard Schindler, Reiner Brocke

Objective:

During the Middle Devonian extensional tectonics were accompanied by several episodes of bimodal volcanism. The most important one was the Middle to Upper Devonian phase, when basaltic melts built up submarine volcanic ridges. Locally they rose above the sea level and were topped by felsic volcanic islands. Several volcanic centres were located in the middle Lahn-Syncline. Explosive eruptions are associated with volcanic islands by subaerial surge and pyroclastic debris flow deposits. The volcanic development is very similar to modern examples, such as the Capelinhos volcano at the island Fayal, Azores. In the southeastern part of the Rheinisches Schiefergebirge reef influenced carbonates are associated with volcanic rises which are generally consisting of submarine lavas and tuffs. Longer breaks in volcanic activity gave rise to the erosion of the exposed volcanics and in some areas reefs of different size developed on volcanic detritus. This part of the field trip provides the opportunity to study the impact of volcanism on reef development and the reconstruction of a characteristic Devonian basinal facies setting. On the way to the Mid-German Crystalline Zone we will visit outcrops in the Dill-Syncline, mainly olisthostromes. They document a syn-rift phase of the Rheohercynian basin, that also caused the coevally bimodal volcanism. Middle to Late Devonian cephalopod limestones deposited on a submarine rise will be shown if matching the schedule.

Overnight stay in **Weilburg (Sunday)**

Overnight stay in **Kelbra/Kyffhäuser (Monday)** after transfer to the Kyffhäuser area.

### **Tuesday and Wednesday, October 07-08, 2008**

Field trip “The Mid-German Crystalline Zone – Insights in the Rheic Suture”

Field trip guide: Armin Zeh

Objective:

The so-called Mid-German Crystalline Zone divides the Rheno-Hercynian and Saxo-Thuringian Zones of the Central European Variscides and is interpreted to be the suture of the Rheic Ocean originated by Variscan continent-continent collision of Gondwana and Laurussia. The field trip offers insights in the complex magmatic and metamorphic evolution of the Mid-German Crystalline Zone by making use of modern geochemical and P-T data and U-Pb datings from zircons of igneous and metasedimentary rocks. The prominent basement inliers of the Kyffhäuser Mountains South of the Harz Mountains and the Ruhla Crystalline Complex in the Thuringian Forest are the objective of these two days of the field trip.

Overnight stay (2 nights) in **Kelbra/Kyffhäuser**  
Transfer to Dresden on Wednesday afternoon

### **Thursday and Friday, October 09-11, 2008**

Field trip: "The Saxo-Thuringian Zone: From Cadomian subduction to Variscan collision"

Field trip guides: Uwe Kroner, Ulf Linnemann, Mandy Hofmann

Objective:

The field trip during the last two days will provide an overview from the oldest rocks of the Saxo-Thuringian Zone (Cadomian Basement) to the Devonian-Carboniferous rock complexes related to the Variscan Orogeny. The general topics will be focused on (1) the Cadomian Orogeny (Ediacaran to earliest Cambrian), (2) the development of the southern margin of the Rheic Ocean (Lower Cambrian to Lower Carboniferous), and (3) on Variscan orogenic processes related to the closure of the Rheic Ocean. We will develop a tectonostratigraphic profile starting with low grade metamorphosed rocks from the Lausitz Block and its surroundings to demonstrate the Cadomian Orogeny and the early history of the southern margin of the Rheic Ocean. Later, effects of subduction of continental crust during Variscan collision and rapid exhumation processes will be demonstrated in a case study of the high-grade metamorphic rock complexes of the Granulitgebirge and the nappe piles of the Erzgebirge and the Frankenberg Zwischengebirge. In addition, the Elbe Zone south of Dresden will be also included in the trip with a number of stops to represent the major Variscan shear zone of the Elbtalschiefergebirge between the low-grade rock units of the Lausitz Block and the high-grade metamorphosed rock complexes in the Erzgebirge. As a summary of the trip new models of the Cadomian and Variscan Orogenies at the northern periphery of the Bohemian Massif will be presented.

Overnight stay (3 nights) in **Dresden**

### **Saturday, October 11, 2008**

Departure from Dresden by the coach back to Frankfurt am Main, or by train or flight (connections from Dresden to Frankfurt am Main or Munich). The arrival time in Frankfurt (Senckenberg Museum) is not predictable due to uncertainties of the traffic situation.

## **Registration**

### **Payment**

Please make your payment in Euro by:

Electronic transfer to:

Account	Senckenbergische Naturforschende Gesellschaft
Name of bank	Frankfurter Sparkasse
Account number	760157
Routing code	500 502 01
IDNr	DE 114235295
IBAN	DE155005020100000760157

SWIFFT

FRASDEFF 50050201

Posting text: your name + 17379 – 20<sup>th</sup> Senckenberg Konferenz (important!)

You should send a copy of your payment receipt together with your registration form or fax a copy of your receipt to: Jutta Oelkers-Schaefer

(E-mail; [Jutta.Oelkers-Schaefer@senckenberg.de](mailto:Jutta.Oelkers-Schaefer@senckenberg.de), fax: +49 (69) 970751120)

**Note: If you are not able to pay in Euro, 15 Euro must be added to cover additional charges for converting foreign currencies.**

### **Cancellation and refunds**

Cancellations must be in written form and addressed to the Organizing Committee. Cancellations received by July 31, 2008 will be accepted and fees refunded except for administration expenses of 30,- Euro. After September 01, 2008 no refunding will be possible.

### **Late fees**

Participants are encouraged to pay the fees as soon as possible and prior to June 15, 2008. Later payment has to include an additional late fee. For details see registration form.

### **Accommodation**

Frankfurt offers a broad variety of hotels. Please arrange your accommodation individually assistance will be provided by "Tourismus + Congress GmbH, Frankfurt am Main; Kaiserstraße 56, 60329 Frankfurt am Main; phone:++49-69-21238800, fax: ++49-69-2123880, e-mail:TCF-info@frankfurt-main.de, internet: <http://TCF.frankfurt-main.de>

**Participants of the post-conference field trip should announce if they will go back to Frankfurt by coach or if they will stay in or depart from Dresden.**

## **Conference Events**

### **Icebreaker**

The organizers invite all participants and registered accompanying persons.

Date: Tuesday, September 30, 2008 from 6:00 – 8:00 pm

Costs included in registration

Venue: Dinosaur Hall, Senckenberg Museum

### **Public Lecture**

Welcome by the director of the Forschungsinstitut und Naturmuseum Senckenberg, Prof. Dr Dr h.c. Volker Mosbrugger.

Date: Wednesday, October 01, 2008 from 8:00 – 9:30 pm

Venue: Senckenberg Museum, Lecture Hall

Speaker: Prof. Dr Dr h.c. Volker Mosbrugger

### **Conference Dinner**

On behalf of the Senckenbergische Naturforschende Gesellschaft, participants and registered accompanying persons will be invited to the conference dinner.

Date: Thursday, October 02, 2008 from 7:30 – 22:00 pm

Costs included in registration

Venue: Dinosaur Hall, Senckenberg Museum

## **Money Exchange**

Cash and cheque exchange is possible at all major banks (most branches are closed on weekends and on October 03, 2008, National Holiday). There are a number of automatic tellers (ATM) in walking distance of the Senckenberg Museum.

## **International Air Travel**

Both, Frankfurt and Dresden (the latter is important for participants of the post-conference field trip) are served by connections of a number of international air carriers. Some international delegates will require a visa to enter Germany and should contact their local German Embassy or Consulate in order to make the necessary arrangements for visa. If you need an invitation letter, please don't hesitate to contact the organizing committee.

## **Public Transport**

All suburbs and the business district of Frankfurt are served by public transport, including buses, trams, metro and regional trains. Major schedules will be provided to the participants; additional information may be found at our website (<http://www.senckenberg/igcp-499>).