

International Symposium Second (final) Circular September 1 – 3, 2004, Erlangen, Germany



Institute of Palaeontology, University of Erlangen-Nuremberg Germany

Field Meeting September 4 – 12, 2004

Ordovician and Silurian of southern Sweden (Fågelsång, Öland, Gotland)

http://www.pal.uni-erlangen.de/IGCP503/

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GEOLOGISCHE VEREINIGUNG e.V.

Friedrich-Alexander-Universität Erlangen-Nürnberg



Welcome - Purpose of the Congress

We cordially invite you to join the First International Symposium on Early Palaeozoic Palaeogeography and Palaeoclimate in September 2004.

We will convene in the city of Erlangen, an old Huguenot town, and site of a prospering university. Erlangen is located in Franconia, northern Bavaria, which is famous for its surrounding geology with spectacular Jurassic sponge-microbial reefs. The world famous *Archaeopteryx*-site in Solnhofen is not far from Erlangen and will be visited during our meeting.

Franconia has the greatest density of micro-breweries in the world - about 1500. At least some of those genuine German beers will be offered during our symposium. Additionally, we have the pleasure to invite all participants to a traditional brewery in the city centre of Erlangen at the end of our meeting.

Our symposium will serve as the Opening Meeting for the new IGCP project n° 503 "Ordovician Palaeogeography and Palaeoclimate", the successor project to the very successful IGCP project n° 410 "The Great Ordovician Biodiversification Event" (1997-2002). After a three days indoor meeting at Erlangen, we have planned a field meeting to the Lower Palaeozoic in southern Sweden (palaeocontinent Baltica) with visits to the GSSP of the base of the Upper Ordovician at Fågelsång, the Ordovician of the island of Öland, and the Silurian succession of the island of Gotland.

Please, contact us for information about this meeting and we look forward to seeing you in Erlangen.

On behalf of the organising institutions and the Scientific Committee **Axel Munnecke** and **Thomas Servais**



Scenic view of the Erlangen Castle where the Symposium will be held. The park offers an additional source for relaxation during the Symposium breaks

Organising Committee

International Scientific Committee

D.A.T. Harper	Copenhagen, Denmark
J. Li	Nanjing, China
A. Munnecke	Erlangen, Germany
A.W. Owen	Glasgow, Scotland, UK
F. Paris	Rennes, France
P. Sheehan	Milwaukee, USA
T. Servais	Lille, France
C. Xu	Nanjing, China

Local Organising Committee (Institute of Palaeontology, Erlangen University)

Tim Beck Lydia Beuck André Freiwald Oliver Lehnert Sonja-B. Löffler Axel Munnecke Alexander Nützel Chris Schulbert Barbara Seuß Jürgen Titschack Petra Wenninger

Symposium-Chair and Contact Address

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For questions regarding IGCP n° 503 "Ordovician Palaeogeography and Palaeoclimate" please contact:

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Scientific Themes - Keynote Lectures - Proceedings

The aim of the Symposium is to provide an interdisciplinary platform for the understanding of Palaeo(bio)geography and palaeoclimate during the Early Palaeozoic — with a particular focus on the Ordovician and Silurian (Ordovician biodiversification, end-Ordovician extinction, Silurian radiation). The congress also serves as the official Opening Meeting of the new IGCP project n° 503 "*Ordovician Palaeogeography and Palaeoclimate*" that will run from 2004 to 2008, and is followed by the first Field Meeting of this new programme. The Abstracts and the Field Guides will be published in a Symposium Volume (Special Volume of the Erlanger geologische Abhandlungen) available at the congress. **Conference language**: all presentations will be given in English.

Scientific Programme

The Symposium venue is Erlangen Castle in the city centre of Erlangen, some 300 m from the Central Railway Station. All keynote lectures and talks will take place in the lecture hall in the Castle on the second floor (no parallel sessions). Registration, the icebreaker party, all coffee and tea breaks, and the poster session will take place in the hall on the first floor of the Castle.

Tuesday, August 31st

16h00 – 22h00	Registration and fix posters
18h00 - 22h00	Icebreaker Party (hall on the first floor of the Castle)

Wednesday, September 1st

OPENING SESSION

09h00 - 09h30	Welcome
09h30 - 10h15	Invited lecture F. PARIS & B.D. Webby: Aims, achievements and lessons
	learnt from six years of IGCP project n° 410

10h15 – 10h45 Coffee & Poster

SESSION 1: ISOTOPE GEOCHEMISTRY AND INTERPRETATION

(Chairman: Peter Sheehan)

- 10h45 11h30 Invited lecture: T. BICKERT et al.: Application of brachiopod carbon and oxygen isotopes for Paleozoic climate reconstruction: Examples from the Silurian of Gotland
- 11h30 11h50 B.D. Cramer & M.R. Saltzmann: *Glaciation, CO*₂, and organic carbon burial in the early Silurian (Wenlock)
- 11h50 12h10 D. Kaljo et al.: Ordovician carbon isotope trend based on Baltoscandian data: some aspects of composition and environmental interpretation
- 12h10 12h30 M. Joachimski et al.: Does the oxygen isotope composition of Palaeozoic brachiopods reflect palaeoenvironmental conditions? A critical reappraisal
- 12h30 12h45 Group Photograph
- 12h45 14h00 Lunch

SESSION 2: END-ORDOVICIAN GLACIATION AND SEA-LEVEL CHANGES

(Chairman: Richard Fortey)

- 14h00 14h20 J.J. Alvaro et al.: *Hirnantian valley-glacier sedimentation in the eastern Anti-Atlas, Morocco*
- 14h20-14h40E. Villas et al.: Modelling the Hirnantian eustatic fall and its related
Gondwanan ice-sheet growth time
- 14h40 15h00P.J. Brenchley et al.: Karstified limestones in a submarine channel record
end-Ordovician glacio-eustatic sea level fluctuations

15h00 - 15h20	H.A. Armstrong et al.: <i>Hirnantian deglaciation: a high latitude perspective from Palaeo-Tethys</i>
15h20 - 15h40	D.P. Le Heron et al.: <i>Defining the maximum extent of the Hirnantian ice sheet in Morocco</i>
15h40 - 16h00	J. Moreau et al.: Ice-proximal sedimentary records of the Late Ordovician glacial cycles

16h00 – 16h20 Tea & Poster

SESSION 3: OPEN SESSION I

(Chairman: Chen Xu)

16h20-16h40	G.L. Albanesi & G.G. Voldman: Ordovician paleothermometry of the
	Argentine Precordillera based on Conodont Color Alteration Index
16h40 - 17h00	L. Cherns et al.: Late Ordovician cool water bryozoan mud mounds from
	Lybia
17h00 - 17h20	Li Yue & S. Kershaw: Reef reconstruction after extinction events of the
	Latest Ordovician in the Yangtze Platform, South China
17h20 - 17h40	M. Calner et al.: Correlation of the middle Silurian graptolite crisis and
	coeval laminated sediments across the Baltic Shield and East European
	Platform
17h40 - 17h50	P. Königshof et al.: "Devonian land-sea interaction: Evolution of ecosys-
	tems and climate" (DEVEC) – the new IGCP Project 499

OPENING SESSION OF IGCP 503

18h00 - 18h30	Business meeting IGCP 503
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18h30 – 20h30 Guided tour through Erlangen

Thursday, September 2nd

SESSION 4: EARLY PALAEOZOIC PALAEOGEOGRAPHY

(Chairman: David Harper)

- 08h15 09h00Invited lecture: L.R.M. COCKS: Ordovician geography: probabilities and
problems09h00 09h20B. Schulz et al.: New zircon ages and isotope data from the Austroalpine
 - Cambrian to Silurian magmatic record and the consequences to models of north-Gondwanan terrane configuration
- 09h20 09h40 Su Wenbo & Shi Xiaoying: *K-bentonites and progressive flysch succession around Ordovician-Silurian transition in South China: New evidences for accretion of Cathaysia to Yangtze Block and break-up of Gondwanaland*
- 09h40-10h00 N. Lubnina: Ordovician palaeogeographical reconstruction of Baltica: palaeomagnetic data
- *10h00 10h20 Coffee & Poster*

SESSION 5: EARLY PALAEOZOIC PALAEOBIOGEOGRAPHY

(Chairman: Alan Owen)

- 10h20 11h05 Invited lecture: C. SCOTESE: *Early Paleozoic plate tectonics, paleogeography, and paleoclimate*
- 11h05 11h25 M. Bassett et al.: *Biogeographical assessment of Early to Mid Ordovician benthic faunas of north-central Iran*
- 11h25 11h45 Rong Jia-Yu & D.A.T Harper: A Middle Ordovician silicified brachiopod fauna from Guiyang, South China and its palaeobiogeographical significance
- 11h45 12h05 T. Servais et al.: Are some fossils better than others for inferring palaeogeography? An old question revisited
- 12h05 13h15 Lunch
- 13h15 19h15Palaeontological Excursion: Solnhofen Museum20h00 23h00Conference Dinner

Friday, September 3rd

SESSION 6: EARLY PALAEOZOIC CLIMATE AND CLIMATE MODELLING

(Chairman: Michael Joachimski)

- 8h30 9h00 Invited lecture: A. MICHEELS et al.: *Palaeoclimate modelling studies for the Late Miocene and for the Neoproterozoic*
- 9h00-9h20 A.D. Herrmann & M.E. Patzkowsky: *Late Ordovician ocean-climate system and paleobiogeography*
- 9h20 9h40 R. Fortey & L.R.M. Cocks: *A late Ordovician global warming event?*
- 9h40 10h10 Invited lecture: L. FRANCOIS: *Modelling atmospheric CO₂ changes at geological timescales*

10h10 – 10h30 Coffee & Poster

SESSION 7: EARLY PALAEOZOIC BIODIVERSITY TRENDS

(Chairman: Florentin Paris)

- 10h30 10h50 A. Achab et al.: Patterns and driving factors of the chitinozoan diversification during the Ordovician
- 10h50-11h10Li Jun & Yan Kui: The Ordovician acritarch assemblage from Meitan
Formation, Tongzi, South China: Biostratigraphy and biodiversity
- 11h10–11h30 N. Esprit et al.: Radiation of bivalves during the Ordovician: morphological quantification of peri-gondwanan faunas
- 11h30-11h50 D.A.T. Harper & A. Tychsen: *The Orthida: Disparity, diversity and distributional dynamics in a Palaeozoic brachiopod clade*
- 11h50-12h10A.W. Owen: Trilobite diversity in Avalonia prior to the end Ordovician
extinction the peak before the trough
- 12h10-12h30T.Y. Tolmacheva: Fossil assemblages from radiolarites of Central
Kazakhstan a key for the reconstruction of the pelagic ecosystem

12h30 – 14h00 Lunch

SESSION 8: EARLY PALAEOZOIC PALAEOECOLOGY AND PALAEOBIOGEOGRAPHY

(Chairman: Rong Jia-Yu)

- 14h00-14h20B. Lefebvre & N. Esprit: Palaeoecology and palaeobiogeography of
Cambro-Ordovician stylophoran echinoderms
- 14h20 14h40 S.V. Rozhnov: Palaeogeography and the origin of higher taxa of echinoderms in the Early Palaeozoic
- 14h40 15h00 O. Fatka & R. Brocke: Changes in Darriwilian acritarch and prasinophyte assemblages of the Yangtze Platform (South China) and the Barrandian area (Czech Republic)
- 15h00–15h20 S.V. Dubinina & A.V. Ryazantsev: Ordovician conodonts in different palaeogeographical environments of the southern Urals
- 15h20 15h40 Z. Zigaite: Endemic thelodonts (agnatha) of the Silurian of Central Asia and Siberian Platform
- 15h40 16h00 O.K. Bogolepova & D.J. Siveter: *The myodocope ostracode <u>Entomozoe</u>* from the early Silurian of Severnaya Zemlya, Russian Arctic: biostratigraphical and palaeogeographical significance
- 16h00 16h20 Tea & Poster

SESSION 9: OPEN SESSION II

(Chairman: T. Servais)

- 16h20 16h50A.V. Dronov & L.E. Popov: Traces of frost action in the Obolus-Sand: the
evidence for subglacial climate in the mid Cambrian to early Ordovician
(Tremadocian) of the East Baltic
- 16h50 17h10 O. Lehnert et al.: *The oldest record of hydrothermal vent communities: intracratonic sites formed in the early stage (Tremadocian) of the Prague Basin*
- 17h10 17h30 E. Díaz-Martínez & Y. Grahn: Ordovician-Silurian boundary near La Paz (Bolivia): stratigraphy, sedimentology, chitinozoan biostratigraphy and regional palaeogeographic implications
- 17h30 17h50 Chen Xu et al.: Consistency of the faunal replacement and environmental change through Ordovician and Silurian transition in South China
- 17h50 18h20 Invited lecture: C. SCOTESE: *Early Paleozoic Paleoclimatic Simulations: Data and Model Comparisons*
- 18h30 18h45 CLOSING CEREMONY
- 19h00 20h30 Brewery Visit (Kitzmann)

Saturday, September 4th

08h00 Departure for the field trip to Fågelsång, Öland, and Gotland (Departure and arrival point is the Erlangen bus terminal)

Oral Presentations

Except for Key Note Lectures, all presentations are scheduled for 20 minutes, with 15 minutes for the talk and 5 minutes for discussion. The lecture hall will have available: 1 projector for standard 35mm slides, screens, 1 overhead projector, and 1 beamer (PC-projector) for PowerPoint presentations. The latter should be delivered on CD-ROM. 2 laptop computers (Mac OS X and PC Windows XP Professional) for video presentations will be provided by the local organising committee.

We ask all speakers to contact us on August 31^{st} while you register to check your presentation on the systems provided. Please, provide a CD ROM before the opening of the session, and indicate if you prefer presentation from the Mac (OS X) or from the PC (Windows XP Professional). All talks will be saved on the two laptops.

Poster Presentations

We will provide poster boards in DIN A0 format (841 mm wide x 1189 mm high; portrait format). All coffee and tea breaks will be in the same hall than the poster presentations in order to assure enough time for discussions in front of the posters. All posters will be presented throughout the period of the congress. Text font size should be no smaller than 14 point, except for references and affiliations, which may be at 12 point. Preferably, a photograph of the presenting author/s should be included on the poster.

Poster Presentations in alphabetical order:

- Antoshkina, A.I.: Late Silurian reef biota in the northwestern Salair: Application to Silurian geography
- Bagnoli, G., Ribecai, R. & Albani, R.: Changes in some acritarch genera across the Volkhov/Kunda boundary on Öland (Sweden)
- Blanchon, M., Raevskaya, E., Servais, T. & Vecoli, M.: The Cambro-Ordovician acritarch <u>Vulcanisphaera</u>
- Couto, H., Sodré-Borges, F., Roger, G., Gutiérrez-Marco, J.C.: The Ordovician of the Valongo Anticline (Portugal)
- Dahlqvist, P., Calner, M., Bergström, S.M. & Harper, D.A.T.: *The Upper Ordovician-Lower* Silurian stratigraphic succession in the Caledonian foreland basin of central Sweden: relationship to the Hirnantian glacial interval
- Ernst, A. & Suttner, T.: Bryozoa from the Pin Formation (Upper Ordovician Lower Silurian) in the Tethyan Zone of the Indian Himalayas

- Fan Juanxuan & Chen Xu: Late Ordovician graptolite extinction and biogeography of graptolites in the Yangtze region
- Fan Juanxuan & Zhang Yuandong: SinoCor 3.0, a biostratigraphic program for graphic correlation
- Ghobadipour, M., Popov, L.E., Lehnert, O., Hairapetian, V. & Hosseini, M.: Emergence of the Palaeozoic Evolutionary Fauna in the early Ordovician of the Alborz Range, northeastern Iran
- Gubanov, A.P. & Bogolepova, O.K.: The earliest record of a colour pattern in molluscs
- Hints, O. & Eriksson, M.E.: Early diversification of jaw-bearing polychaetes
- Jankauskas, T. & Gritite, J.: Acritarch assemblages of the Ordovician and Silurian deposits in Lithuania
- Jendryka-Fuglewicz, B.: Cambrian brachiopods from near the Teisseyre-Tornquist Line in Poland and their implications for palaeogeography
- Kershaw, S. & Young, G.A.: Internal banding in Palaeozoic stromatoporoids and colonial corals: Classification and controls of formation
- Kiipli, T., Kiipli, E. & Kallaste, T.: Record of Ordovician and Silurian volcanism in Estonian sections prospect of research
- Lee, S.-b., Lefebvre, B. & Choi, D.K.: Tremadocian stylophoran echinoderms from the Taebaeksan Basin, Korea
- Manda, S.: Early Silurian cephalopod migrations to the Prague Basin (Perunica micro-plate, Bohemia)
- Mergl, M.: The earliest brachiopod-bryozoan dominant community in North Gondwana: a case from Late Arenigian of the Barrandian, Bohemia
- Nardin, E. & Levebvre, B.: Palaeogeography and biodiversity of Cambro-Ordovician echinoderms
- Nolvak, J.: Ordovician chitinozoan distribution in the different areas of Baltoskandia
- Nützel, A., Lehnert, O. & Frida, J.: *Major changes in gastropod larval strategies during the Early Ordovician*
- Ortega, G., Albanesi, G.L. & Frigerio, S.E.: Early Darriwilian graptolite and conodont biofacies in the Los Azules Formation, Cerro Viejo section, Central Precordillera, Argentina
- Podhalanska, T.: New data on the Ordovician ichnofossils from the Koszalin Chojnice Region (Pomerania, NW Poland) – palaeogeographic implication

- Raevskaya, E., Le Hérissé, A. & Steemans, P.: Quantitative distribution and evolution of palynomorphs associated with kukersite deposits in the Middle-Upper Ordovician of the East-European Platform
- Stricanne, L., Munnecke, A., Pross, J. & Servais, T.: Development of acritarch communities across the late Silurian positive $\delta^{13}C$ excursion data from Gotland, Sweden
- Trotter, J.A., Eggins, S.M., McCulloch, M.T., Barnes, C.R., Nicoll, R.S., Nowlan, G.S. & McCracken, A.D: Sr isotopic and Mg cycling in Early Palaeozoic seawater: Implications for tectonic and climatic processes
- Vaida, M., Veliciu, S. & Verniers, J.: Basin analysis: a punctual example in the South of Romania
- Vaida, M., Verniers, J. & Seghedi, A.: The biostratigraphy of new chitinozoans from the South of Romania
- Vandenbroucke, T.R.A., Van Nieuwenhove, N. & Verniers, J.: Towards an Upper Ordovician chitinozoan biozonation on Avalonia? Research on historical type areas and other UK key sections
- Vanmeirhaeghe, J., Van Noten, K., Van Grootel, G. & Verniers, J.: Chitinozoans from the Upper Ordovician of the Fauquez area (Brabant Massif, Belgium)
- Vecoli, M., Al-Ruwaili, M., & Le Hérissé, A.: Palaeobiological and palaeoenvironmental significance of cryptospores and acritarchs from the Llanvirn of Saudi Arabia
- Vennin, E., Álvaro, J.J., Villas, E. & Destombes, J.: *High-latitude bryozoan-dominated communities as a major carbonate factory on mixed carbonate-siliciclastic platforms of the late Ordovician northern Gondwana*
- Vyhlasová, Z.: Ordovician conulariid diversity in the periGondwana and Baltica regions a summary with a special view to the Ordovician of Barrandian
- Wheeley, J.R., Cherns, L. & Wright, P.: *The Ordovician Baltic epeiric sea taphonomy and early diagenesis of its carbonate sediments*
- Woo, J. & Chough, S.K.: Depositional environments and sequence stratigraphy of the Jigunsan Formation (Middle Ordovician), Taebaeksan Basin, Mideast Korea
- Wrona, R.: Gondwanan provenance of the Lysogóry block (Holy Cross Mountains, Poland) supported by Upper Ordovician chitinozoans from the Pobroszyn section
- Xu Honggen & Yu Guohua: Brief introduction of the Ordovician and Silurian in Northwest Zhejiang
- Zuykov, M.A. & Harper, D.A.T: <u>*Platystrophia-like brachiopods: their potential use in biostratigraphy, palaeoecology and palaeogeography*</u>

Field Meeting - Geological Excursion

Immediately following the opening conference of IGCP n° 503, we are holding the first field meeting of the new IGCP project. We will visit the Lower Palaeozoic of southern Sweden (palaeocontinent Baltica), including the GSSP of the base of the Upper Ordovician at Fågelsång, the Ordovician of the Island of Öland, and the Silurian succession of the Island of Gotland. Departure and arrival point is the Erlangen bus terminal (ca. 100m NW of the main railway station). The field meeting is completely booked out.

Excursion Programme:

Saturday 4 September

Departure Field Meeting, Erlangen at 8:00h Arrival Lund, Sweden

Sunday 5 September

Visit GSSP Fågelsång, and some other classical Cambrian and Ordovician localities in the area <u>Field guide</u>: Per Ahlberg Arrival on Öland in the evening

Monday-Tuesday 6-7 September

Geological excursion, Ordovician of Öland <u>Field guide</u>: Svend Stouge

Wednesday 8 September

Travel from Öland to Gotland, first outcrops on Gotland

Thursday-Friday 9-10 September

Geological excursion, Silurian of Gotland <u>Field guides</u>: Mikael Calner, Lennart Jeppsson, Axel Munnecke

Saturday-Sunday 11-12 September

Overnight stay in Copenhagen on Saturday Return to Erlangen. Arrival at Erlangen on Sunday at about 19:00h

Transport from and to Erlangen will be by mini-buses. Accommodation in Sweden will be organised in hotels and in the geological field station of the University of Lund on Gotland. Please note that accommodation is only available in twin bed rooms. Except for several days when a lunch pack will be organised, lunch and dinner will be in restaurants. These costs are not included in the fee, and have to be paid by each person himself or herself (estimated additional cost 250 Euros).



Participants of the field meeting

Per Ahlberg* (guide) Mikael Calner** (guide) Chen Xu Fan Juanxuan Olle Hints Lennart Jeppsson** (guide) Seung-bae Lee Bertrand Lefebvre Miriam Lefebvre Oliver Lehnert Li Jun Stepan Manda Axel Munnecke (guide) Qiu Jinyu Rong Jiayu Sergey Rozhnov Thomas Servais Svend Stouge*** (guide) Su Wenbo Sun Meirong Thijs Vandenbroucke Jan Vanmeirhaeghe Jusun Woo Xie Xiaoyan Xu Honggen

(participation restricted to: * Skaane; ** Gotland; *** Skaane and Öland

Social Events

A series of social events are organised. The conference will open on Tuesday, August 31^{st} with an **Icebreaker-Party** that is scheduled from 18:00h - 22:00h in Erlangen Castle (first floor), where registration starts at 16:00h.

A guided sightseeing tour through Erlangen (90 minutes walking tour) will be organised after the first day of scientific sessions, Wednesday September 1st, from 18:30h to 20:00h. This tour will start from the Castle (Palace, Erlanger Schloss) and allows an appreciation of historical buildings such as the Huguenot Church, Palais Stutterheim, the Baroque Orangerie, the Palace Gardens, the Botanical Gardens, Margrave's Theater, and others.

The afternoon of the second day of scientific sessions, Thursday, September 2nd, will provide to participants who have booked this trip an opportunity to visit the world famous Jurassic **Fossil-Lagerstätte of Solnhofen** near Erlangen. The bus trip will bring us to the outcrops and to the museum at Solnhofen (between 13:15h and 19:15h). Departure point is the Erlangen bus terminal (ca. 100m NW of the main railway station), arrival point is either the bus terminal, or the Hotel Bayerischer Hof (depending on the traffic on the highway) where the Conference Dinner will be.

This visit is followed by the **Conference Dinner**, that will take place in the historical vaulted cellar of the Hotel Bayerischer Hof in the city centre of Erlangen, where a Buffet will be served.

After the third and last day of scientific sessions on Friday, September 3rd, following the closing session of the congress, a guided tour through the 250 year old traditional family **Kitzmann brewery** will be organised. This guided tour will end in a "sample room" where the local products can be tasted and enjoyed. Meeting point is the Erlangen Castle at 19.00 p.m.



Meals

Meals are not organised, except the conference dinner on the evening of September 2. As the conference venue is in the city centre of Erlangen, a large number of restaurants are in easy walking distance. Meals are available at all price ranges and in various styles, ranging from fast-food restaurants to typical Franconian style local restaurants.

Accommodation

Accommodation is not organised and must be arranged individually. We recommend you to visit the website <u>www.erlangen.de</u> to find information about the city and accommodation.

The most convenient way to book your room is through the Tourist Information Office (see attached RTF document). The form sheet "ROOM RESERVATION" is available in various formats (WORD, RTF, PDF) under <u>www.pal.uni-erlangen.de/IGCP503/accomm/</u>. Rooms are available at a wide range of prices, from simple rooms in private houses (equivalent to B&B) starting with prices of about 15 Euros per person in single or double rooms, or "Hotels Garni" and ranging up to 3 and 4 stars (up to 200 Euros per night per person). A youth hostel and camping sites are also available. There are a total of almost 50 hotels and guest-houses with over 2800 beds in the city centre, and another 1700 rooms within the city limits.

Please, note that Erlangen is an important regional and national centre and the headquarter of *SIEMENS*, and that hotel facilities may quickly be booked out. Therefore we suggest you to book your accommodation as soon as possible with the help of the Tourist Information Office (www.erlangen.de).

How to get to Erlangen

Erlangen is situated in northern Bavaria, a few kilometres north of Nuremberg. Motorways, airports and major railway lines allow easy access from inside and outside Germany.

• By plane

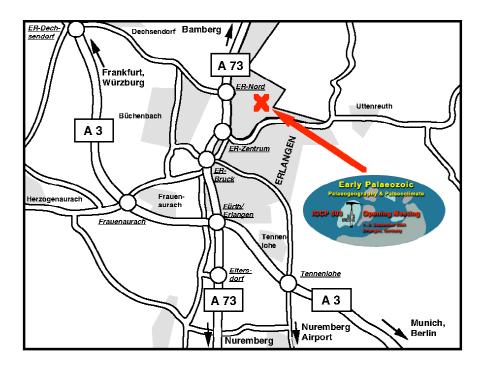
The nearest airport is Nuremberg about 15 km south of Erlangen. From here you can choose the U2-subway from the airport to the Nuremberg Central Station within 20 minutes where frequent trains leave to Erlangen (another 15 minutes). Taxi shuttle fares from the airport to Erlangen cost about 23 Euros (phone 0911-19410). For detailed information, please visit the airport web-site: www.airport-nuemberg.de. If you arrive at the Frankfurt airport you also have train connections to Nuremberg and Erlangen (about 3 hours).

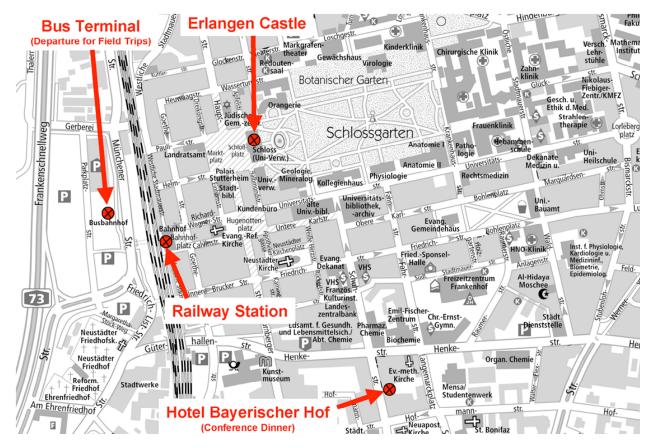
• By train

Nuremberg Central Station is the nearest major railway station. From here you have to change train to Erlangen (about 15 minutes).

• By car

There are several options to reach Erlangen by car from either direction. The motorways A73 and A3 pass Erlangen.





Climate

The meeting takes place in the late summer. Daily temperatures may still reach up to 20 °C, but be prepared for occasional showers.

Immigration and Visa requirements

Participants are advised to check their individual circumstances for entry. Please, note that Germany, Denmark, and Sweden are Schengen countries and a single visa is valid for all countries belonging to the Schengen territory. If you need an official invitation to get your visa, please, contact the Organising Chair.

Insurance

All insurance is the responsibility of the participants. The Organising Committee accepts no liability or responsibility for death, illness, injury, or financial loss by any person attending the Symposium and the Field Meeting, whatever the cause. It is strongly recommended that overseas participants arrange their own health and accident insurance and travel assistance.

Currency and Banking

Germany is a country in the Euro-Zone. Exchange rates vary, but at the time of preparing this circular (July 2004) 1 Euro = ca. 1.23 US\$. All banks (except in airports) are closed on Saturdays and Sundays, but automatic cash machines are available. Participants of the field meeting should note that Denmark and Sweden are not in the Euro-Zone, and Danish and Swedish crowns are required for payments in bars, restaurants and shops.

Registration

Late registration to attend the conference is still possible after June 1st at an increased rate. Late contributions, however, can only be scheduled as poster presentations, and abstracts arriving after July 16th cannot be printed in the abstract volume. Students benefit from a reduced registration fee, but must provide a certificate of their student status.

The registration fees cover the abstract volume (including field guides), final programme, list of participants, the icebreaker reception, coffee and refreshments during the scientific sessions, as well as all social events, except the conference dinner and the Solnhofen excursion. Please, note that registration is required for these social events. The IGCP field meeting to Sweden is booked out.

Mode of payment:

Payment by credit card is not possible. Payments must arrive by (international) bank transfer on the following bank account:

Banking details:

for non-Germans:	for Germans:
<u>Holder of the bank account</u> : Staatsoberkasse Bayern in Landshut <u>Address</u> : Postfach 2849, D - 84026 Landshut, Germany	<u>Kontoinhaber</u> : Staatsoberkasse Bayern in Landshut <u>Adresse</u> : Postfach 2849, D - 84026 Landshut, Germany
Name of the Bank: Bayerische Landesbank München <u>SWIFT/BIC Code</u> : BYLADEMM <u>IBAN Code</u> : DE66700500000301279280 <u>Account Number</u> : 301279280 <u>Reference</u> : DST 808 317-2 (important!!)	Name der Bank: Bayerische Landesbank München Bankleitzahl: 700 500 00 Kontonummer: 301279280 Kennwort: DST 808 317-2 (sehr wichtig!!)

Please note:

Student members of the Geologische Vereinigung (GV) who do not live in Erlangen get a support of 75 Euro from the GV. Please send the registration confirmation, a copy of the student ID, and the bank account to the Geologische Vereinigung (http://www.g-v.de/).



Please, note that the international bank transfer costs (varying for each country and each bank) are covered by the participants.

REGISTRATION FORM

Name		
Affiliation		
Telefax		
Please book the following		
LATE REGISTRATION	Regular Participant	150 Euro
(after June 1)	Student Participant	75 Euro
	Accompanying Person	30 Euro
Icebreaker Party	August 31st	free
Guided sightseeing tour	September 1st	free
Bus trip: excursion and Solnhofen museum	September 2nd (persons à)	15 Euro
Conference Dinner	September 2nd (persons à)	40 Euro
Brewery Visit	September 3rd	free
FIELD MEETING	September 4-12 (is booked out!)	
	TOTAL	: Euro
Date and signature		
Please return thi	s form by fax together with your a	bstract and with your

payment to the organisers (Fax +49 (0)9131 - 85 22690)