

CENTRAL EUROPEAN MEETING OF SEDIMENTARY GEOLOGY

June 9-13, 2014, Olomouc, Czech Republic

SECOND CIRCULAR

BASIC INFORMATION

The organizing committee and the community of sedimentologists and stratigraphers in the Czech Republic cordially invite you to the **Central European Meeting of Sedimentary Geology** to be held in **Olomouc, Czech Republic from June 9 to 13, 2014**.

The goal of the meeting is to gather geoscientists and students, who not only share common ideas, working areas and geological fields of Central Europe but also are linked by similar tradition, present-day development, co-operation and friendship. We would like to enhance discussion on common sedimentologic and stratigraphic topics and working areas, including the Carpathians, the Alps, and the Variscan orogeny and surrounding platform sedimentary systems. Our goal is to strengthen the exchange of knowledge and to promote the Central European region as an important part of the European community of sedimentary geologists.

The meeting is aimed at people from Central European countries including Austria, Croatia, Czech Republic, Germany, Hungary, Poland, Slovakia and Slovenia but participants from other countries are warmly welcome!

We are looking forward to see you in Olomouc!

On behalf of the organizing committee:

Ondřej Bábek (*Palacký University of Olomouc*)

David Uličný (*Institute of Geophysics, Czech Academy of Science*)

Tomáš Matys Grygar (*Institute of Inorganic Chemistry, Czech Academy of Science*)

CONTACTS and WEBSITE

Accommodation, registration fees and organizing affairs

Jitka Hýbnerová
Conference Centre
Palacký University
Biskupské n. 1
771 11 Olomouc
Czech Republic
Tel.: ++420-585 631 125
Fax: ++420-585 222 802
E-mail: Jitka.Hybnerova@upol.cz

Scientific programme, field trips, abstract submission

Ondřej Bábek
Department of Geology, Faculty of Science
Palacký University of Olomouc
17. listopadu 12
771 46 Olomouc, Czech Republic
Tel.: ++420-585 634 352
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E-mail: babek@prfnw.upol.cz
<http://www.prf.upol.cz>
<http://www.geology.upol.cz>

Conference website: www.sedgeol.upol.cz



Moravské naftové doly, a.s.



Severočeské doly a.s. Chomutov

SCIENTIFIC COMMITTEE and ORGANIZATION

SCIENTIFIC COMMITTEE

Ondřej Bábek (Czech Republic)
Michał Gradziński (Poland)
Jindřich Hladil (Czech Republic)
Juraj Janočko (Slovakia)
Michal Kováč (Slovakia)
Mark G. Macklin (UK)
Tomáš Matys Grygar (Czech Republic)
Orsolya Sztanó (Hungary)
Andrej Šmuc (Slovenia)
David Uličný (Czech Republic)
Michael Wagneich (Austria)
Markus Wilmsen (Germany)

ORGANIZING COMMITTEE

Ondřej Bábek
Daniel Šimíček
Jan Sedláček
Jitka Hýbnerová

VENUE

Palacký University of Olomouc
Faculty of Science
17. listopadu 12
77146 Olomouc
Czech Republic
Loc: 49°35'32.223"N, 17°15'47.916"E

The Meeting will be hosted by the **Palacký University of Olomouc**, the second oldest university in the territory of Bohemia and Moravia, a traditional centre of education and one of the most rapidly growing centres of science in the Czech Republic.

Located almost in the heart of the Central Europe, within less than two-hour driving distance from Poland, Slovakia, and Austria, Olomouc is a perfect venue for the meeting. With about a hundred thousand inhabitants and more than twenty thousand university students, the historical city of Olomouc is a typical university town, which combines a relaxing atmosphere with the advantages of modern urban life. The Department of Geology of the Palacký University of Olomouc is one of four main centres of geological research and education in the Czech Republic.

Two-day technical conference will be held in the brand-new building of the Faculty of Science, Palacký University of Olomouc, about ten-minute walking distance from the historical centre of the city of Olomouc and 15-minutes distance from the railway station. The building offers state-of-the-art lecture rooms including the main lecture theatre for 150 people, a number of relaxation areas, a snack bar and a pizza restaurant.

Faculty of Science building, 17. listopadu 12, Olomouc



Interior of the Faculty of Science



CONFERENCE SCHEDULE

The conference will be held in June 9 to 13, 2014

June 9-10	<i>Pre-conference Field Trips</i> (two days)
June 10, 17:00 – 20:00	<i>Registration and Icebreaker Party</i> Faculty of Science (conference venue), Palacký University 17. listopadu 12, Olomouc, 2 nd and 6 th floor
June 11 to 12, 9:00 – 18:00	<i>Technical sessions + posters</i> Registration Faculty of Science, Palacký University 17. listopadu 12, Olomouc 2 nd + 3 rd floor
June 11,	18:00 – 18:30 <i>Baroque Music in Corpus Christi Chapel</i> Palacký University Art Centre Jesuit College ("Konvikt"), Univerzitní 3, Olomouc (before conference dinner)
June 11, 18:30 – 21:00	<i>Conference Dinner</i> Palacký University Art Centre Jesuit College ("Konvikt"), Univerzitní 3, Olomouc
June 13, 8:00 – 18:00	<i>Post-conference Field Trip</i> (one day)

DEADLINES and FEES

DEADLINES FOR REGISTRATION AND ABSTRACT SUBMISSION

March 30, 2014	Submission of registration form Submission of abstracts Payment of registration fee
April 30, 2014	Information on abstract acceptance Confirmation of the registration

HOW TO REGISTER

Complete and return the **ON-LINE REGISTRATION FORM** no later than March 31, 2014. The information provided in this form will help us to correspond with you efficiently and will ensure that your name is spelled correctly on your conference badge. On line registration is possible via our website: www.sedgeol.upol.cz

Late / on-site registration (after March 31, 2014) will be made possible subject to extra fee of EUR 50. The Registration Fee will cover conference materials, book of abstracts, attendance at conference sessions, all administrative costs, lunches and coffee breaks during the technical sessions (June 11 to 12, 2014).

REGISTRATION FEES:	Professionals	<i>130 EUR / 3500 CZK</i>
	Students (PhD students, undergraduates)	<i>60 EUR / 1600 CZK</i>
	Conference dinner	<i>20 EUR / 500 CZK</i>
	Accompanying person	<i>40 EUR / 1000 CZK</i>
FIELD TRIP FEES:	Bohemian Cretaceous Basin	<i>100 EUR / 2700 CZK</i>
	Moravo-Silesian Culm Basin	<i>100 EUR / 2700 CZK</i>
	Southern Moravia river valleys	<i>35 EUR / 950 CZK</i>

HOW TO PAY

Please, pay the registration fees and extra payments, if applicable, by bank transfer to:

Komerční banka, a.s.
Tř. Svobody 14
Czech Republic.
Account No: 433855090287/0100 code: 999022115
SWIFT code: KOMBCZPPxxx
IBAN: CZ9801000000433855090287
Name of account: Univerzita Palackého v Olomouci.

Please note that all bank charges are at the sender's expense. Payment should be made by **April 30, 2014**; after this date please make the payment of the conference fee in cash (we accept only Euros / Czech Crowns) at the registration desk. Please e-mail / fax a copy of your bank transfer order or photocopy of your bank cheque together with your registration form as a proof of payment.

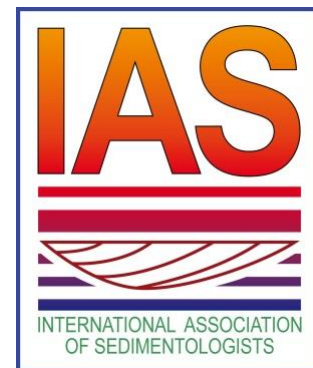
For further details of payment, see conference website at www.sedgeol.upol.cz or contact Mrs. Jitka Hýbnerová at Jitka.Hybnerova@upol.cz

IAS TRAVEL GRANTS FOR STUDENTS

The Bureau of the IAS (International Association of Sedimentologists) has generously decided to support the Central European Meeting of Sedimentary Geology with travel grants for IAS students. The travel grants are intended for **IAS student members** who will have an active contribution (oral or poster) at the conference on a topic with sedimentological relevance. **IAS Travel grants are considered as a contribution to the expenses of the student participant (travel, housing, registration, field trips)** but not a full reimbursement of the actual travel expenses. The sum of individual grants will depend on distance travelled and on the number of applications received.

IAS student members shall submit their application through the website before the registration deadline (March 30, 2014); after the deadline the application page closes automatically. The application procedure is simple and requires submitting a short letter of motivation together with some specific details regarding to location and travel distance, affiliation, etc. Please refer to the IAS website or contact Nina Smeyers (nina.smeyers@ugent.be) or IAS webmaster Steven (steven.devriese@gmail.com) should you require more information. **Students who wish to actively participate at the meeting and are not IAS members are encouraged to apply for IAS student membership (only EUR 10!) online.** Please apply for an IAS travel grant as well as IAS membership through the IAS website:

<http://www.sedimentologists.org/members/grants>



SCIENTIFIC PROGRAMME and ABSTRACT SUBMISSION

Contributions to every topic related to the process sedimentology, stratigraphy, paleoenvironments, geophysical, geochemical and petrophysical methods on sediments and sedimentary rocks, applied sedimentology and other fields are welcome. The focus of the meeting will be on plenary sessions rather than a number of parallel sessions, in order to promote scientific communication across barriers separating specialized fields.

SESSIONS

Contributions to every topic related to the process sedimentology, stratigraphy, paleoenvironments, geophysical, geochemical and petrophysical methods on sediments and sedimentary rocks, applied sedimentology and other fields are welcome. The focus of the meeting will be on plenary sessions rather than a number of parallel sessions, in order to promote scientific communication across barriers separating specialized fields. Authors are invited to submit their papers into one of **four sessions**. The papers can be presented either orally or as poster presentations. The scientific committee will reserve the right to decide about oral or poster presentation of the submitted papers.

1. Clastic depositional systems: processes and controls

Understanding the behaviour of clastic systems, from mountain catchments to deep sea fans, requires study of modern environments, experimental work, interpretation of seismic datasets, as well as classical field work. The focus of this session is on the analysis and interpretation of clastic sedimentary bodies on all scales relevant to process-oriented sedimentologists as well as to sequence stratigraphers. Case histories from fossil and modern record as well as conceptual and experimental contributions are welcome.

2. Sedimentary archives of environmental changes from Neogene to Anthropocene

This section will put together researchers documenting past environmental changes in sedimentary records of high temporal resolution and/or long temporal extent. Particularly welcome are contributions combining several approaches to reconstruct the past environments. The focus will be on climate/environmental changes on Milankovitch as well as sub-Milankovitch timescales down through to millennia and centuries. In case of Holocene environmental/climate change, with increasing human influence, studies of the impact of human presence in changing sedimentary environments, biota, or chemical pollution will be an important complement to more traditional sedimentological approaches.

3. Reading the deep-time sedimentary record: stratigraphy across depositional systems and time slices

Progress in correlation and interpretation of deep-time (~pre Cenozoic) sedimentary record is one of the big challenges in the science of stratigraphy. Searching for new correlative tools and extending the actualistic concepts of astronomic tuning, chemostratigraphy, oceanographic overturns, climate change, etc. into the Mesozoic and Palaeozoic represent the cutting edges of current stratigraphic efforts, both in the industry and academia. This session will be devoted to analysis of pre-Cenozoic sedimentary record from all types of depositional systems including carbonates, evaporites and siliciclastics. Authors are invited to present contributions utilizing a broad range of methods from traditional facies analysis to multiproxy studies involving geochemical, geophysical and petrophysical data.

4. Sedimentary record of tectonic and geodynamic evolution of Central Europe

This section will focus on tectonic signature in sedimentary record and the analysis of sedimentary basins in the Central European region. From the Neoproterozoic to late Cenozoic, major orogenies, Cadomian, Caledonian, Variscan and Alpine contributed to the building of the Central European lithosphere, resulting in overwhelming variability of past and present-day mountain belts and adjacent sedimentary basins. The response of sedimentary systems to tectonics will be the focus of this session. Contributions covering facies analysis, provenance studies, subsidence and thermal history, tectonic geomorphology and diagenetic history, and utilizing a range of datasets including field data, geophysics, geochemistry and petrophysics, are welcome.

KEYNOTE SPEAKERS

The organizers are proud to announce five invited lectures to be given by internationally distinguished scientists:

Gary Kocurek, University of Texas at Austin

Interpreting the Climatic Signal From Aeolian Dune Cross-Strata

Mark G. Macklin, Aberystwyth University, Wales

Seeing things whole: database and meta-analysis of fluvial responses to Holocene environmental change

David Mohrig, University of Texas at Austin

Connecting rivers and deltas to hyperpycnal-flow deposits using laboratory, numerical and field studies

Orsolya Sztanó, Eötvös Loránd University, Budapest

Controls on deep-water sand delivery: models and evidence

Michael Wagreich, Vienna University, Austria

Cretaceous oceanic red beds and oceanic anoxic events in a greenhouse world

ABSTRACT SUBMISSION

Authors are invited to submit their contributions into one of the following sessions. The contributions will be presented either orally or as posters. The scientific committee will reserve the right to decide about the form of presentation after evaluation of the abstracts.

All abstracts shall be submitted via our **on-line submission system** on the conference website. Abstracts for oral and poster presentation should be written in clear and concise English, use SI units, numbers have decimal points, no commas.

FIELD TRIPS

PRE CONFERENCE FIELD TRIPS

Depositional processes and sequences in a clastic-rich epeiric seaway: the Bohemian Cretaceous Basin

Leaders: David Uličný, Lenka Špičáková, Stanislav Čech

June 9 - 10 (2 days, departure from Prague)

Maximum 30 participants

Price: 100 EUR / 2700 CZK (Price covers bus, all meals, accommodation and field trip guide)

Start: June 9, 8:00; Prague, Roztyly metro station, line C

Route plan: Prague – Nehvizdy Quarry – Nová Ves u Kolína (abandoned quarry) – Plákanek – Hrubá Skála (overnight) – Střeleč – Olomouc

End: June 10, 18:00; Faculty of Science (conference venue), Palacký University, 17. listopadu 12, Olomouc

Equipment and

requirements: moderate to good physical fitness, usual field gear and footwear; rubber boots advisable in case of wet weather in the Nehvizdy Quarry (clay pit). Hard hats and safety vests will be provided for quarry entrance.

The two-day field trip will focus on well-exposed examples of both transgressive palaeovalley fills and prograding sand-rich deltaic systems of the Bohemian Cretaceous Basin. For most of its lifetime, this basin was a shallow, epeiric seaway that recorded the interplay of high sea level during the mid-Cretaceous supergreenhouse time and coeval tectonic activity due to reactivation of Variscan basement structures. Day 1 of the trip will focus on the record of the earliest phase of basin filling, in quarry exposures of one of the largest palaeovalley fills of Mid-Cenomanian age, east of Prague. Well-exposed fluvial, estuarine and shallow-marine facies provide opportunity to discuss depositional processes, in particular a strong tidal influence, and problems of sequence-stratigraphic interpretation of an updip part of a palaeovalley fill. Rocky-shore facies are another classical ingredient of Cretaceous geology of the Bohemian Massif, and the Nová Ves locality will provide a good example of deposits near palaeocliffs drowned at the end of the "Cenomanian transgression". End of Day 1 and the entire Day 2 will be devoted to sand-rich deltaic systems that characterized the basin fill during the Turonian and Coniacian times. The well-exposed, late Turonian-early Coniacian deltaic sandstones of the scenic Hrubá Skála area recorded a history of relative sea-level changes in a series of overlapping regressive successions separated by pronounced transgressive surfaces. Within this stratigraphic framework, changes of physical process regimes recorded in the clinoforms of the deltas will be discussed. This deltaic system is particularly instructive for the study of the interaction of hyper- and hypopycnal modes of sediment delivery with ambient currents, and its consequences for depositional patterns in the distal parts of the basin are of particular interest.

Carboniferous turbidite systems of the Variscan foreland: the Moravo-Silesian Culm Basin

Leaders: Ondřej Bábek, Jiří Otava, Daniel Šimíček

June 9 - 10 (2 days, departure from Olomouc)

Maximum 30 participants

Price: 100 EUR / 2700 CZK (Price covers bus, all meals, accommodation and field trip guide)

Start: June 9, 8:00; Faculty of Science (conference venue), Palacký University, 17. listopadu 12, Olomouc (ground floor)

Route plan: Olomouc – Mokrá Quarries near Brno – Luleč near Vyškov – Bělkovice Valley – Jívová – overnight in Hrubá Voda – Skoky – Olšovec Quarry – Stará Ves u Bílovce – Kružberk – Olomouc.

End: June 10, 17:00; Faculty of Science (conference venue), Palacký University, 17. listopadu 12, Olomouc

Equipment and

requirements: moderate physical fitness, usual field gear and footwear; hard hats and safety vests will be provided for quarry entrance

The Moravo-Silesian Culm Basin represents the easternmost outcrop of the Variscan collision-related basins – remnant ocean basins and peripheral foreland basins filled with Lower Carboniferous deep-water clastic sediments

(Culm facies). The basin had axial-trough topography throughout its depositional history and well-defined proximal-to-distal gradient, with major clastic sources in the SW and predominant sediment dispersal towards NE. Its sedimentary fill, more than 7.5 km thick, is markedly cyclic with sand-rich turbidite systems with channels, overbank successions and slope-apron deposits alternating with fine-grained, distal, low-efficiency turbidite systems. This cyclicity was controlled by tectonic switching between sediment supply from multiple lateral point sources located in the western tectonic hinterland and the axial supply from the major point source in the S. The basin was predominantly sourced from the Lugodanubian terrane and its provenance patterns bring evidence of erosional unroofing in the source area.

The basin is well-exposed in numerous quarries and deep river valleys, which allow 2D reconstruction of its sedimentary and tectonic patterns including unusually well-preserved fine-grained turbiditic facies. The field trip will be aimed at deep-water clastic facies ranging from fan-delta conglomerates, channel-fill, slope apron sandy and gravelly facies, depositional lobes and basin-plain facies, sediment cyclicity and trace fossil assemblages. Various sedimentary structures including very well preserved structures of distal fine-grained sandy and silty turbidites and their tectonic deformation will be presented. We will also discuss gamma-ray logs and their relationship to facies, sediment provenance and paleocurrent patterns of the basin fill.

POST CONFERENCE FIELD TRIP

Climate-controlled fluvial, lacustrine and aeolian processes in the Last Glacial and Holocene: Southern Moravian river valleys

Leaders: Jaroslav Kadlec, Gary Kocurek, David Mohrig

June 13 (1 day, departure from Olomouc)

Maximum 30 participants

Price: 35 EUR / 950 CZK (Price covers bus, all meals, accommodation and field trip guide)

Start: June 13, 8:00; Faculty of Science (conference venue), Palacký University, 17. listopadu 12, Olomouc (ground floor)

Route plan: Olomouc – Pouzdřany Sand Quarry south of Brno – Dolní Věstonice Loess Quarry – Bzenec-Přívov Sand Quarry – Boršice Gravel Quarry – Olomouc

End: June 13, 18:00; Faculty of Science (conference venue), Palacký University, 17. listopadu 12, Olomouc

Equipment and

requirements: moderate physical fitness, usual field gear and footwear; hard hats and safety vests will be provided for quarry entrance

The field trip will explore the record of sedimentary processes in the Lower Morava and Dyje River basins during the latest Pleistocene and Holocene. The river basins are located in the northern segment of the Neogene Vienna Basin and record a succession of fluvial, alluvial fan, aeolian and lacustrine environments in response to climate oscillations and local topography. Pleistocene stadials were dominated by sedimentation in braided rivers and alluvial fans, which are represented by gravel and sand deposits. The accumulations from the braided rivers were partly or completely reworked by meandering rivers during subsequent interstadial or interglacial conditions. A terminal fan and subsequent aeolian dune field formed downstream of the confluence of the Morava and Dyje Rivers, and gave rise to a glacial lake filled with sandy turbidite deposits in a portion of the Lower Morava River basin. The lake deposits became a source for aeolian dunes after the lake filling. Incision of the Late Glacial Morava River channel preceded Holocene floodplain development. Sediments exposed in both active and abandoned quarries provide a natural archive revealing, in particular, the Last Glacial and Holocene history of the Morava and Dyje River basins. The field trip will focus upon stratal architecture, sedimentary structures, paleoenvironmental interpretations, and dating methods.

For further organization see conference website at www.sedgeol.upol.cz

ACCOMMODATION

STUDENT HOUSING FACILITIES

Šmeralova 10, 771 11 Olomouc, Czech Republic

Cheap accommodation in will be arranged in student housing facilities just next to the conference venue. Please make your booking in the on-line conference registration form. Please note that booking of the student housing will be valid and binding subject to the previous payment of this type of accommodation.

Double Room: 26 EUR per night without breakfast
Single Room: 25 EUR per night without breakfast



**For accommodation in all hotels,
please make your booking on your own using on-line booking at the hotel websites.**

HOTEL FLORA ***

Krapkova 439/34, 779 00 Olomouc, Czech Republic

Flora Hotel is a modern ten-storey hotel with an international clientele situated in a quiet part of the city of Olomouc next to the city parks where the Flora Olomouc flower shows are held. The hotel is just a ten-minute walk from the historical heart of the city and within reach of tram or rail transport. Special reduced prices are offered for conference participants (please identify yourself as CEMSEG participant):

Standard Double Room: 54 EUR / 1400 CZK per night
Standard Single Room: 39 EUR / 1000 CZK per night
Lux Double Room: 69 EUR / 1800 CZK per night
Lux Single Room: 54 EUR / 1400 CZK per night

On-line booking: www.hotelflora.cz

Phone: +420 585 422 200

Deadline for reservation: May 15, 2014



HOTEL CLARION ****

Jeremenkova 36 - CZ-779 00 Olomouc, Czech Republic

Clarion Hotel Olomouc is a newly renovated four-star hotel and one of the largest congress hotels in Olomouc and its surrounding area. It has excellent location directly opposite the railway station not far from the city centre and superb transport accessibility. The hotel offers wellness centrum, free Wi-Fi and parking in the hotel garage. Special reduced prices are offered for conference participants (please identify yourself as CEMSEG participant):

Double Room: ~73 EUR / ~1900 CZK per night
Single Room: ~65 EUR / ~1700 CZK per night

On-line booking: www.clarioncongresshotelolomouc.com/en/

Phone: +420 581 117 114

Deadline for reservation: May 8, 2014



BUSINESS HOTEL ALLEY ****

Michalské stromořadí 1061, Olomouc, Czech Republic

The hotel is located in the quiet setting of a city park in the very centre of Olomouc, within 10-minutes walking distance from the conference venue. Special reduced prices are offered for conference participants (please identify yourself as Palacky University / UPOL Geologie participant):

Double Room: ~70 EUR / 1750 CZK per night
Single Room: ~62 EUR / 1540 CZK per night

On-line booking: www.hotel-alley.com/en/reservations/
Phone: +420 585 502 999



NH HOTEL OLOMOUC CONGRESS ****

Legionářská 1311 / 21, Olomouc, 77900, Czech Republic

Special reduced prices are offered for conference participants (please identify yourself as Palacky University / UPOL Geologie participant):

Double Room: ~89 EUR / 2450 CZK per night
Single Room: ~77 EUR / 2000 CZK per night

On-line booking: www.nh-olomouc.cz/en/
Phone: +420 585 575 111



IBIS HOTEL OLOMOUC ****

Wolkerova 29, 77900 Olomouc, Czech Republic

Special reduced prices are offered for conference participants (please identify yourself as Palacky University / UPOL Geologie participant):

Double Room: ~69 EUR / 1863 CZK per night
Single Room: ~62 EUR / 1674 CZK per night

On-line booking:
<http://www.ibis.com/gb/hotel-8248-ibis-olomouc-centre/index.shtml>
Phone: +420 585 722 110



For any information regarding hotel booking, student housing reservation and payment please **contact**:

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VENUE and HOTEL MAP

