



FIRST CIRCULAR



19TH INTERNATIONAL CONGRESS ON THE CARBONIFEROUS AND PERMIAN (XIX ICCP 2019)

Invitation

With great pleasure we invite you to attend the 19th International Congress on the Carboniferous and Permian, to be held at the University of Cologne, Cologne, Germany, July, 29th–August, 2nd, 2019. It is our special privilege, to host the ICCP again in Central Europe, following the successful meetings in Cracow 1995 and Utrecht 2003, and forty-eight years after the meeting in Krefeld 1971, hitherto the only “Congres International du Stratigraphie et Géologie du Carbonifère” held in Germany.

The widened spectrum of the congress and major advances made in almost 50 years are a unique opportunity to demonstrate the scientific progress in Germany and adjacent countries of Central Europe, to put these into a global frame enabled by the presentations of established researchers and young scientists and students from all over the world, and to evaluate the results on various fieldtrips in classical and new localities. The Carboniferous and Permian of Central Europe display a multitude of facies, which might suit everybody’s interest. In the Mississippian, facies range from carbonate platform environments in Belgium and westernmost Germany to the classical basinal Kulm successions in the Rhenish Mountains and beyond, also seen during the proposed field trip to the Moravo-Silesian Zone (Czech Republic). Pennsylvanian successions contain in part coal-bearing paralic and intramontane succession. The latter continue throughout most of the Permian (“Rotliegend”), and finally are topped by the carbonate and salt deposits of the uppermost Permian “Zechstein” sea, both constituting the classical Northwest-Central European Permian. Finally, an excellent glimpse of the Northwestern margin of the Palaeotethys will be provided by a field trip to the Carnic Alps and Karavanke in the border triangle of Austria, Italy and Slovenia. New data concern stage and substage boundaries, among those on the Devonian-Carboniferous, Viséan-Serpukhovian, and Permian-Triassic boundaries, sequence stratigraphic interpretations, refined biostratigraphic data and non-marine–marine correlations, refined facies interpretations, and spectacular Pennsylvanian-Permian fossils sites. Last but not least, the future economic potential of Carboniferous deposits after ending of coal mining in Germany and adjacent countries is of major interest and new models for the tectonic assemblage of the Variscides “in the heart of Pangaea” emerged in recent years.

We would appreciate to welcome all of you in Cologne. Do not miss this unique forum on the Carboniferous and Permian, meet old and new friends to discuss latest results, and contribute to cutting-edge research of our favourite time slice. We will do our best to organize a splendid meeting!

General sponsors

German Stratigraphic Commission

German Subcommittee on Carboniferous Stratigraphy

German Subcommittee on Permian and Triassic Stratigraphy

The International Subcommittee on Carboniferous Stratigraphy

The International Subcommittee on Permian Stratigraphy

Members of the Scientific Committee and areas of specialization

Michael Amler (Köln), Carboniferous marine invertebrates.

Markus Aretz (Toulouse), Carboniferous and Permian carbonate environments and reefs.

Ondřej Bábek (Olomouc), Co-leader of proposed field trip to the Mississippian of Moravia; multiproxy stratigraphy, sequence stratigraphy and climate-eustasy interactions in the Carboniferous

Julien Denayer (Liège), Leader of proposed field trip to the Mississippian of Belgium; Carboniferous stratigraphy and marine macrobiota.

Holger Forke (Berlin), Leader of proposed field trip to the Pennsylvanian and Permian of the Carnic Alps and Karavanke Mts.; Pennsylvanian and Permian fusulines, stratigraphy and regional geology.

Anette Götz (Porthmouth), Permo-Carboniferous of Gondwana and its conventional and unconventional energy resources.

Hans-Georg Herbig (Köln), Carboniferous stratigraphy and facies; Congress Chair.

Jiří Kalvoda (Brno), Co-leader of proposed field trip to the Mississippian of Moravia; Carboniferous stratigraphy and marine microbiota.

Hans Kerp (Münster), Permo-Carboniferous palaeobotany.

Tomas Kumpan (Brno), Leader of proposed field trip to the Mississippian of Moravia; multiproxy stratigraphy of Devonian and Carboniferous carbonate successions

Svetlana Nikolaeva (Moscow-London), Vice-chair of the International Subcommittee on Carboniferous Stratigraphy; Carboniferous stratigraphy and marine macrobiota.

Matevž Novak (Ljubljana), Leader of proposed field trip to the Pennsylvanian and Permian of the Carnic Alps/Karavanke Mts.; Pennsylvanian and Permian palaeontology, stratigraphy and regional geology.

Edouard Poty (Liège), Co-leader of proposed field trip to the Mississippian of Belgium; Carboniferous marine invertebrates, biostratigraphy and sequence stratigraphy.

Ausonio Ronchi (Pavia), Non-marine Permian basins in Europe, their stratigraphy and biota.

Martin Salamon (Krefeld), Conventional and unconventional Permo-Carboniferous energy resources in Europe.

Jörg Schneider (Freiberg), Vice-chair of the International Subcommittee on Permian Stratigraphy; Co-leader of the proposed field trip to the classical Northwest-European Permian in central Germany; Permian marine – non-marine correlations.

Shuzong Shen (Nanjing), Chair of the International Subcommittee on Permian Stratigraphy; Permian stratigraphy.

Vladimir Silantiev (Kazan), Chair of the 18th International Congress on the Carboniferous and Permian; non-marine Permian stratigraphy and biota.

Lucas F. Spencer (Albuquerque), Permo-Carboniferous vertebrate palaeontology and marine – non-marine correlations.

Sebastian Voigt (Thallichtenberg), Leader of the proposed field trip to the Pennsylvanian-Permian non-marine Saar-Nahe Basin, SW Germany; Carboniferous–Triassic non marine biota, palaeoichnology and palaeoenvironments

Xiangdong Wang (Nanjing), Chair of the International Subcommission on Carboniferous Stratigraphy; Carboniferous stratigraphy.

Volker Wrede (Krefeld): Leader of the proposed field trip to the Pennsylvanian paralic foreland basin of the Ruhr area; regional and structural geology, coals.

Silvio Zeibig (Kassel), Co-leader of the proposed field trip to the classical Northwest-European Permian in central Germany; Zechstein deposits of central Europe and salt mining.

Members of the Organization Committee

Hans-Georg Herbig, Michael Amler, Sarah Esteban-Lopez, Sven Hartenfels, Hannah Czieszinski, Eliza Stehr (all University of Cologne), Markus Aretz (Université de Toulouse).

Venue

Cologne, the fourth biggest German city, is a vibrant metropolis with somewhat more than one million inhabitants in the western part of Germany. Based on an older local settlement, it was founded by the Romans and is thought to be the oldest city of Germany. During centuries people from many countries met in its open-minded atmosphere. Its flair is due to the unique location at River Rhine, the mixture of modern and historical buildings – the famous cathedral is included in the UNESCO world heritage list, and the many students visiting several universities. The University of Cologne, which will host the 19th ICCP has almost 50,000 students in six faculties covering the complete spectrum of natural and cultural sciences. Cologne is an ideal base to visit classical Carboniferous localities in the near-by Belgian Ardennes, the German Rhenish Mountains and the Ruhr area. Permian outcrops are somewhat more distant, but easily reached via a dense net of highways. Do not forget additional touristic highlights, including four UNESCO world heritages: scenic “Upper Middle Rhine Valley”, “Germanic-Rhaetic Limes”, the originally 550 km long boundary fortification of the Romans, as well as the rococo castles “Augustusburg” and “Falkenlust”, both only some kilometres south of Cologne.

Schedule for 2019

Pre-Congress field trips

July 28: Arrival in Cologne, Registration and welcome reception

July 29-August 2: Talks, poster-sessions, workshops

July 31: Mid-Congress Field trip

August 1: Congress Dinner (River Rhine Cruise)

August 3: Departure

Post-Congress field trips

Travel

Cologne is reached by a dense network of highways and high-speed trains. By air, it is reached via the airport Cologne-Bonn CGN (12,000,000 passengers/year, 130 destinations, also by low-cost carriers). Participants from overseas may find good travel deals to the airports of Düsseldorf DUS, Frankfurt/Main FRA, or even to Brussels BRU (Belgium) and Amsterdam AMS (The Netherlands). All airports are directly connected by high-speed trains with Cologne:

Düsseldorf (40 km, 25 min)

Frankfurt (180 km, 1 h)

Brussels (230 km, 2 h)

Amsterdam (280 km, 3h)

Please check to see if your visit in Germany will require a visa. On request, we will provide official invitation letters to delegates who need to apply for a visa.

Scientific Programme

Talks and posters: The congress will take place in the central lecture hall of the University of Cologne. This will enable easy changeover between parallel sessions of talks. Time for oral presentation is limited to 20 minutes, including questions and discussion. The posters will be also displayed in the central lecture hall and be accessible during the entire duration of the congress.

We plan to limit speakers to one presentation, but individuals may participate as non-presenting co-author in additional talks. The number of poster presentations per person is not limited. Poster format will be portrait layout DIN A 0 (width 841 mm, height 1189 mm). Details will follow in the second circular.

Proposed Sessions: Herein, we propose a framework of sessions/topics. However, we encourage the scientific community to propose additional sessions or more specialized 'subsessions' to the organization committee **until November, 15th 2018**. Proposals should be accompanied by an outline of the session topic, maximum 150 words long. Final acceptance will be based on the potential to attract a wide audience and to stimulate further research. Additional session titles will be published in the second circular.

A. The world of stratigraphy

- A1. Carboniferous stage boundaries, stratotype sections, and GSSPs
- A2. Permian stage boundaries, stratotype sections, and GSSPs
- A3. Carboniferous and Permian multistratigraphy and correlations (including isotope stratigraphy, magnetostratigraphy, sequence stratigraphy, and cyclostratigraphy)
- A4. Revision of the Devonian-Carboniferous boundary and associated events and extinctions
- A5. End-Permian extinction and early Triassic recovery
- A6. Late Carboniferous to earliest Triassic non-marine – marine correlation

B. The world of palaeontology

- B1. Carboniferous and Permian marine biota: taxonomy, palaeoecology, palaeogeography
- B2. Carboniferous and Permian non-marine biota and plants: taxonomy, palaeoecology, palaeogeography

C. The world of facies, environments and basin analysis

- C1. Carboniferous and Permian reefs, mounds, and biostromes
- C2. Carboniferous and Permian carbonate platforms and basins from cold-water to the tropics
- C3. Permian evaporite basins
- C4. Carboniferous and Permian siliciclastics and shales
- C5. Non-marine basins and environments of the Variscides and beyond
- C6. Permo-Carboniferous basins and environments from Gondwana
- C7. The Permo-Carboniferous glaciations - record and impact

D. The world of oceans and mountains

- D1. Carboniferous and Permian plate tectonics and the evolution of relief (building and deconstruction of mountains)
- D2. Carboniferous and Permian palaeoceanography

E. The world of economic geology

- E1. Carboniferous and Permian coals and evaporites
- E2. Carboniferous and Permian conventional and unconventional hydrocarbon systems
- E3. Carboniferous and Permian geothermal resources

Abstracts: Abstracts are due April, 15, 2019. A request for abstracts will be announced in the second circular, including instructions for the authors. Abstracts are limited to one page, format DIN A4. The fully citable abstracts will be published in *Kölner Forum für Geologie und Paläontologie*. The volume will be distributed to the registered delegates.

Proceedings: Congress proceedings will be published, but at the time being no final decision on the format has been made. However, we prefer a publication in the "Compte Rendue" style of earlier congresses, as in our opinion dispersion in several journals minimizes the importance and impact of the congress.

Workshops: Free workshops will be available for any colleagues or working groups on demand. Please contact us not later than April, 15th, 2019 with workshop titles, duration and expected number of participants. Rooms will be available for the business meetings of the Subcommissions on Carboniferous and Permian stratigraphy.

Proposed Field Trips

Field trip participation will be on a first-come first-served base. Independently to modifications/restrictions by the fieldtrip leaders a maximum of 30 persons per field trip is expected. Duration, excursion routes, and costs will be detailed in the Second Circular. Pre-congress and post-

Congress field trip themes supplement each other to enable maximum coverage for participants interested in two field trips. Field trips will not require extensive walking or walking in rugged landscape except for some stops in post-Congress field trip C3.

A. Pre-Congress field trips

A1. The Mississippian carbonate platform of the Ardennes, Belgium – fauna, facies, and stratigraphy.

A2. The Mississippian Kulm Basin of the Moravo-Silesian Zone, southern Czech Republic – counterpart of the German Rhenish Mountains.

A3. The classical Northwest-Central European Permian: continental “Rotliegend”, restricted marine to evaporitic deposits of “Zechstein”, and the Permian-Triassic transition in central Germany.

A4. The Pennsylvanian of the Ruhr area, western Germany – fauna, facies, and stratigraphy of a paralic foreland basin of the Variscides including coal formation.

B. Mid-Congress field trips: to be announced in the Second Circular.

C. Post-Congress field trips

C1. The Mississippian Kulm Basin of the Rhenish Mountains, western Germany – fauna, facies, and stratigraphy of a mixed carbonate-siliciclastic foreland basin.

C2. The Pennsylvanian–Permian of the Saar-Nahe Basin, southwestern Germany – fauna, facies, and stratigraphy of an intramontane continental molasse basin of the Variscides.

C3. The Pennsylvanian–Permian of the Southern Alps (Carnic Alps/Karavanke Mts.), Austria/Italy/Slovenia – fauna, facies and stratigraphy of a mixed carbonate-siliciclastic shallow marine platform along the northwestern Palaeotethys margin.

General information

Guest programme: No formal guest programme is planned at this time. All places of interest can be reached by foot or public transport. For information see the official website <https://www.cologne-tourism.com/>. Feel free to request further information from the organizers.

Accommodation: A large variety of hotels is available in Cologne. Prices during summertime are reasonable, as no trade fairs or other big events will take place. We will suggest some which are in walking distance (max. about 30 minutes) to the congress location on the website. Student dormitories are not available, but low cost hostels and youth hostels might be booked.

Weather conditions: Due to its position relatively close to the Atlantic and the North Sea, Cologne has a mild, maritime influenced climate. Average maximum temperatures in July and August are 24°C during the day, minimum temperatures 12–13°C at night. Rain cannot be excluded and even some hot days with temperatures up to 30°C.

Type of clothing: A light rain coat and a sweater should be obligatory. For field trips bring also sturdy boots and, if possible, a hammer.

Registration

Electronic registration will be available on the Congress website <http://iccp2019.uni-koeln.de/> after December, 1, 2018. It is our wish to organize a meeting at reasonable prices to enable participation of a wide audience. The fees, however, still might be subject to minor changes due to pending funding.

Registration fees:

	Before March 15, 2019 (Early Bird)	March 15–May 30, 2019 (Late registration interval)
Regular participant	280 €; includes congress fee, printed abstract volume, printed volume of all field trips, additional USB stick with electronic versions of both volumes. Icebreaker party and refreshments during the sessions	330 €; includes congress fee, printed abstract volume, printed volume of all field trips, additional USB stick with electronic versions of both volumes. Icebreaker party and refreshments during the sessions
Student	190 €; as above, applies only with valid student ID card	240 €; as above, applies only with valid student ID card
Accompanying person	80 €; icebreaker party and refreshments during the sessions	100 €; icebreaker party and refreshments during the sessions

Important dates

August, 15th, 2018: First Circular; call for sessions

November, 15th, 2018: Deadline for proposal of sessions

December, 1st, 2018: Second Circular, opening of online registration

April, 15th, 2019: Deadline for Early Bird payment, abstract submission; announcement of workshops

May, 30th, 2019: Third Circular, end of late registration interval

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