



Kazan Golovkinsky Stratigraphic Meeting, 2017

(Fourth All-Russian Conference “Upper Palaeozoic of Russia”)

**Upper Palaeozoic Earth systems: high-precision biostratigraphy,
geochronology and petroleum resources**

19–23 September 2017, Kazan, Russia

OBJECTIVES

Upper Palaeozoic (Devonian, Carboniferous and Permian) successions of Russia have a long history of study, and host fuel and mineral resources of huge economic importance. Excellent outcrops provide unique insights into the stratigraphy of both marine and terrestrial settings. However, correlation of marine and non-marine successions is still problematic due to the lack of precise biostratigraphic control, rare isotopic ages, and unambiguous interpretation of interacting geo- and biosphere processes. Deciphering the causes that led to the most severe of all mass extinction events at the end of the Permian and analyzing the preceding events, as e.g. the late Devonian Frasnian/Famennian event, which changed ecosystems in the sea and on land, is still a challenge and demands global interdisciplinary research.

PAST, PRESENT AND FUTURE STUDIES OF THE LATE PALEOZOIC SEDIMENTARY BASINS

Nikolai A. Golovkinsky (1834 – 1897), first professor and head of the Kazan School of Geology, laid some of the earliest foundations for the study of Upper Palaeozoic sedimentary deposits in the Volga-Kama basins. The Upper Paleozoic sedimentary basins display a wide variety of facies, as their evolution was associated with immense palaeogeographical and biotic changes in space and time. The increase in bioproductivity and the formation of reef complexes led to the formation of oil and gas deposits all over the world, hugely increasing the importance of multidisciplinary studies of biotic and abiotic processes in marine and non-marine ecosystems.

In this context, in 2014 the Kazan Federal University established a joint working group on “**Stratigraphy of oil- and gas-bearing reservoirs of the Late Palaeozoic**” headed by Joerg W. Schneider, Vice-Chairman of the International Subcommittee on Permian Stratigraphy. The meetings of this group were held at the Technical University Bergakademie Freiberg during the **CPC-2014 Field Meeting on Carboniferous and Permian Nonmarine – Marine Correlation**, and at the Kazan University during the **Kazan Golovkinsky Stratigraphic Meeting – 2014** and within the **XVIII International Congress on the Carboniferous and Permian**, Kazan, 2015.

The meeting in 2017 will cover all aspects of Upper Palaeozoic stratigraphy, biotic and abiotic events and the evolution of sedimentary basins, and their resources. The meeting aims to provide a platform for discussion of research fields and for international exchange of ideas between research groups working on the Upper Palaeozoic. Additionally, it will be a valuable contribution to the tasks of the Late Carboniferous-Permian-Early Triassic Nonmarine-Marine Correlation Working Group of the International Subcommissions.

NEW! - Post-Meeting Trip: Volga and Kama Region

ORGANISING COMMITTEE

Chairman of the Organising Committee

Professor **Danis K. Nurgaliev**

Vice-Rector for Research of the Kazan Federal University

Director of the Institute of Geology and Petroleum Technologies

Danis.Nourgaliev@kpfu.ru

Vice-Chairman of the Organising Committee

Professor Dr.rer.nat.habil. **Joerg W. Schneider**

Technical University Bergakademie Freiberg, Germany

Vice-Chairman International Subcommission on Permian Stratigraphy (SPS) of the International Commission on Stratigraphy (ICS, IUGS), Head of the Late Carboniferous-Permian-Early Triassic Nonmarine-Marine Correlation Working Group (SCCS, SPS, STS), Head of the German Subcommission on Carboniferous Stratigraphy

Joerg.Schneider@geo.tu-freiberg.de

SCIENTIFIC COMMITTEE

Alexander S. Alekseev, Igor V. Budnikov, Alexander S. Biakov, Annette E. Götz, Vladimir I. Davydov, Valeriy V. Chernykh, Boris I. Chuvashov, Irina O. Evdokimova, Valeriy K. Golubev, Alexander O. Ivanov, Nadezhda G. Izokh, Olga L. Kossovaya, Galina V. Kotlyar, Elena I. Kulagina, Serge V. Naugolnykh, Tamara I. Nemyrovska, Danis K. Nurgaliev, Svetlana V. Nikolaeva, Barry C. Richards, Martin Salamon, Shuzhong Shen, Vladimir V. Silantiev, Xiangdong Wang.

SCIENTIFIC PROGRAMME

Meeting Format: each talk is limited to 15 minutes (+ 5 minutes for questions and discussion). Talks will be grouped based on broad geological topics. There will be one poster session, which will include afternoon refreshments. Speakers will be limited to two presentations (talks) at the meeting. Individuals may participate as a non-presenting coauthor on additional talks. Individuals may participate in as many poster presentations as they wish.

SESSION TITLES

1. Upper Palaeozoic stage boundaries, stratotype sections, and GSSPs
 2. Upper Palaeozoic high-resolution stratigraphy (multi-proxy correlations) and calibrations
 4. Upper Palaeozoic high-precision geochronology
 5. Late Paleozoic plate tectonics and orogenies, palaeoclimate, mass extinctions and recovery
 6. Late Paleozoic biotic evolution: systematics, ecosystems, and paleobiogeography
 7. Sequence stratigraphy of Upper Palaeozoic sedimentary basins
 8. Late Palaeozoic coal and mineral deposits, conventional and unconventional hydrocarbon systems.
 - 9. The Second V. G. Chalimbadja Memorial Workshop "Conodont Biostratigraphy and Paleobiogeography"**
 - 10. Business Meeting of the Late Carboniferous-Permian-Early Triassic Nonmarine-Marine Correlation Working Group of the International Subcommissions on Carboniferous, Permian, and Triassic stratigraphy.**
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LANGUAGE: The official languages for the scientific program and all the business of the meeting are **Russian and English**. Talks given in Russian language should have English explanations in the PowerPoint presentations. **The working languages are English and Russian.**

CALL FOR ABSTRACTS

Abstracts of oral and poster presentations are welcome. Please indicate your preference when submitting. All submissions will be peer-reviewed and published in an Abstract volume. Please submit abstracts by e-mail (attached file in Word format) to: Dinara.Miftakhudinova@kpfu.ru

Deadline for abstract submission is May 25, 2017.

FORMAT: abstracts are limited to two A4-sized pages including text, figures and tables; *margins* (top, bottom, left, right): 25 mm; *title*: upper and lower case, left justified; Arial, 14 pt bold; *author's names*: upper and lower case, left justified, first name first, surname last, Arial, 12 pt.; *affiliation*: upper and lower case, left justified, Arial, 10 pt.; numbered superscripts should be used to indicate the affiliation of each author; *main text*: single-spaced text, Arial 12 pt.

EXAMPLE:

Carboniferous and Permian nonmarine-marine correlation – methods, results, future tasks

Jörg W. Schneider^{1, 6}, Spencer G. Lucas², James Barrick³, Ralf Werneburg⁴, Dmitry E. Shcherbakov⁵, Vladimir Silantev⁶, Shuzhong Shen⁷, Hafid Saber⁸, Abouchouaib Belahmira⁸, Frank Scholze^{1, 6}, Ronny Rößler⁹

¹TU Bergakademie Freiberg, Institut für Geologie, Freiberg, Germany

²New Mexico Museum of Natural History and Sciences, New Mexico, USA

³Department of Geosciences, Texas Tech University, Texas, USA

⁴Naturhistorisches Museum Schloss Bertholdsburg, Schleusingen, Germany

⁵Borissiak Paleontological Institute, Russian Academy of Sciences, Moscow, Russia

⁶Kazan Federal University, Kazan, Russia

⁷Nanjing Institute of Geology & Palaeontology, Nanjing, Jiangsu, China

⁸Department of Geology, Chouaib Doukkali University, El Jadida, Morocco

⁹Museum für Naturkunde, Chemnitz, Germany

The Late Carboniferous and the Permian was a time in Earth's history of an exceptionally low global sea level because of the Late Palaeozoic glaciations and low sea floor spreading rates. Consequently, most of the sediments were stored on land, including

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Bangert, B., Armstrong, R., Stollhofen, H. & Lorenz, V. (1999): The geochronology and significance of ash-fall tuffs in the glaciogenic Carboniferous-Permian Dwyka Group of Namibia and South Africa. – *Journal of African Earth Sciences* 29: 33–49.

Barrick, J.E., Heckel, P.H. & Boardman, D.R. (2008): Revision of the conodont *Idiognathodus simulator* (Ellison, 1941), the marker species for the base of the Late Pennsylvanian global Gzhelian Stage. – *Micropaleontology* 54: 125–137.

Fedonkin, M.A., Gladenkov, Y.B., Zakharov M.A., Ippolitov, A.P. (Eds.) (2013): *General Stratigraphic Scale of Russia: current state and ways of perfection*. GIN RAS, Moscow: 408 p.

Forsh, N.N. (1955): *The Permian Deposits. The Ufa Formation and the Kazanian Stage*. Trudy Vsesoyuznogo nauchno-issledovatel'skogo Instituta, Novaya Seria 92: 1–156. (in Russian)

VENUE

The City of Kazan is among the most ancient cities in Russia. With a population of 1.2 million people, it is a cultural and industrial centre included in the UNESCO World Heritage list, and its mosaic of Muslim and Christian architecture contributes to its unique atmosphere and scenery. Kazan is situated in the centre of European Russia and easily accessible.

SCHEDULE FOR MEETING

September 19, 2017: Arrival in Kazan

September 20, 2017: Scientific Sessions

September 21, 2017: Field excursion along Volga River outcrops of Permian successions

September 22, 2017: Scientific Sessions, meeting of the Working Group “Stratigraphy of oil-and-gas bearing reservoirs of the Late Paleozoic”. Banquet and closing of the meeting.

September 23, 2017: Departure from Kazan

September 23–25, 2017: Post-Meeting Trip: Volga and Kama Region

TRAVEL

It's easy to get to Kazan by air via Frankfurt, Prague, Istanbul, Moscow or St. Petersburg or by train via Moscow (12 hours) and St. Petersburg (14 hours).

If you need to be picked up at the airport, please indicate this during registration or contact us by email beforehand.

OBTAINING A VISA TO VISIT RUSSIA: Please check to see if your visit to Russia will require a visa: <http://www.visitrussia.org.uk/visaform/not-need/> or <http://ru.vfsglobal.co.uk/>. The process involves contacting the nearest Russian embassy or consulate. We will send an official invitation letter issued by Kazan University to delegates who need to apply for a visa. Please send us a request for a visa invitation.

GUEST PROGRAM: No formal guest program is planned at this time. However, the organisers can help to coordinate local excursions to suit most interests. Feel free to request information, provide suggestions or share potential interests. See the Official Kazan City Guide at <http://gokazan.ru>.

ACCOMMODATION: A large variety of hotels is available in the city of Kazan (check on the Conference website).

TRAVEL INSURANCE: Participants should have valid health insurance for the entire journey. All foreign participants are required to bring with them health insurance contracts, covering the period of the trip, from an insurance company that provides an international insurance policy.

CLIMATE: Kazan has a continental climate. September is a time of “Golden autumn” with average +8degC to +16degC, infrequently exceeding +25degC or dropping below +5degC. There is a possibility of rain.

REGISTRATION

Registration form is available on the website: www.kpfu.ru/geo/stratikazan2017.

Registration Deadline: May 25, 2017.

REGISTRATION FEES:

REGULAR PARTICIPANT	100 Euro, includes the meeting fee, the abstracts volume, and refreshments during session breaks
STUDENT	50 Euro, as above: students must show a valid student ID card
ACCOMPANYING PERSON	30 Euro, as above: with the exception of the abstracts volume

IMPORTANT DATES

December 20, 2016: First Circular available for distribution and online.

April 25, 2017: Second Circular available for distribution and online.

May 25, 2017: Deadline for registration and abstract submission.

September 10, 2017: Third Circular with final Program of the Meeting available for distribution and online.

CONTACTS

Secretary of the Organising Committee

Vladimir V. Silantiev

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Meeting Secretary

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Post-Meeting Trip: Volga and Kama Region. Middle and Upper Permian, 23-25 September, 2017

Minimum number of participants: 5; Maximum number of participants: 10

Leaders: PhD Vladimir V. Silantiev. E-mail: vsilant@gmail.com Phone: 007 917 286 5098

PhD Fedor A. Mouraviev. E-mail: Fedor.Mouraviev@kpfu.ru Phone: 007 905 313 6619

Cost: € 250 includes: bus transfers within the trip, 3 field lunches, 3 dinners, accommodation for 1 night in Elabuga hotels and field trip guidebook. Participants need to book their hotels in Kazan for 23.09.2017 and 25.09.2017

Date	Event	
<p>23rd Sept</p>	<p>08.00. Departure from Kazan to Pechischi section, shallow-marine deposits of Upper Kazanian. 09.30-13.00. Stratotype of the Upper Kazanian substage. Brachiopods, bryozoans, crinoids, bivalves etc. Fossil collecting. 14.00-14.30. Trip to Cheremushka Gully. 14.30-18.00. Parastratotype of the Urzhumian regional stage. Continental deposits. Bivalves, tetrapods, fishes, paleosols. 18.00-19.30 Return to Kazan. Dinner in a café.</p>	 <p>Pechischi section</p>
<p>24th Sept</p>	<p>08.00. Departure from Kazan to Monastery Ravine. 11.00-16.00. Stratotype of the Urzhumian and Severodvinian stages. Kiaman-Illawara paleomagnetic reversal, fishes, tetrapods, paleosols. 16.00-21.00. Departure to Elabuga. 21.00. Accommodation in "Alabuga" hotel http://www.alabuga-cityhotel.ru/ 22.00-23.00. Dinner in a café.</p>	 <p>Monastery Ravine section</p>
<p>25th Sept</p>	<p>08.00. Departure from Elabuga to Sentyak. 09.00. Stop 1. Right bank of the Kama near Elabuga pier. Ufimian-Kazanian (Lower-Middle Permian) boundary. Brachiopods, bryozoans, bivalves, gastropods, forams, paleosols. 11.00. Stop 2. Shallow water carbonates and coal-bearing siliciclastics of the Kazanian near the Sentyak locality. Marine and non-marine fauna and flora. 13.00-14.00. Field lunch. 14.00-17.00. Completion of trip. 17.00-21.00. Return to Kazan.</p>	 <p>Sentyak, shallow marine and continental Kazanian deposits</p>