

International Geology Field School

- **Training program**

18+

Number of students – 12

Duration of the internship: 2 weeks (16 days)

Russian as a foreign language - 10 hours

Lectures in geology and paleontology - 8 hours

Field works – 29 hours

Fee: \$900

Certificate of completion

Target group: students, postgraduate students

- **Program description**

SibSIU offers a good opportunity for students interested in geology, paleontology and stratigraphy to gain unique experience taking part in the thoroughly worked out summer school which integrates both theory and practice under supervision of one of the leading specialists in this field in Russia.

The overall objective of IGFS'21 is to provide the students majoring in geology, paleontology and stratigraphy with an opportunity to explore the Kuznetsk Basin (Kuzbass) and search for remains of reptiles in the upper part of the section of the Permian System. They will also get field work experience investigating the continental coal sediments of the key region of the ancient Siberian continent (Angarida). Paleontological description of these sediments is of immense importance as it characterizes the ancient continent situated in the temperate and northern latitudes in contrast with other Earth's continents which were concentrated at the Equator.

Novokuznetsk itself is situated in the center of the Kuznetsk Basin – one of the largest coal fields in the world, and is an entrance point to exploration of the Angaridian development history in the late Paleozoic (the Carboniferous, the Permian). The most part of the industrial coal beds are in the sediments of the Permian System which are well-investigated and have extensive and uncovered sections on the river Tom's banks. These sections can easily be accessed and studied without use of special equipment. In the rocks plant fossils (tree trunks, imprints of shoots, leaves and spores) can be found. Single findings of fish and insects are known.

The staff of the Chair of Geology and Geodesy of SibSIU consists of experienced researchers in paleontology, stratigraphy and paleobotany who specialize in Kuznetsk Basin sediments. Not so long time ago the research team came across an article in the archives which described the finding of the tooth fragment and several bones of the Permian tetrapod related to *Inostrancevia* in these sediments near settlement Sheveli (about 300 km from Novokuznetsk). This fact was of special scientific interest and deserved thorough investigations. Thus, the main attention has been recently focused on studying of appearance of early tetrapods on Angarida. In 2010-2011 we discovered and examined the burial of the Late Devonian (Famennian) fleshy-finned fishes and lungfishes on the bank of the river Uryup. The remains of early tetrapods were also found and scanned at the European Synchrotron Radiation Facility (ESRF) situated in Grenoble (France) and at the present moment they are being investigated by the European leading scientists.

The IGFS'21 duration will be 16 days and will include: 6 class hours of lectures devoted to palaeontology of the Kuznetsk Basin; 29 hours of field works; geo-paleontological excursions to the sites of the Kuznetsk Basin; 10 class hours of the Russian Language and Culture (language level upon the request). Language of tuition will be Russian and English (lecture translation will be provided). The field works will take place in the sections of the Permian System in Tarbagan and Sheveli. The preliminary analysis of the findings will also be performed.

Lectures, explanations during the excursions and supervision of the field works will be carried out by Doctor of Geological and Mineralogical Sciences, Professor Yaroslav Gutak a well-known in the region geologist, stratigrapher, paleontologist and an experienced and highly skilled explorer. He is a full member of the Paleontological Society of the Russian Academy of Sciences, member of the Russian Interdepartmental Stratigraphic Commission on the Devonian System which is a part of Interdepartmental Stratigraphic Committee and the member of the analogous regional committee. He takes part in the approval procedure of stratigraphic schemes of different systems (the Paleozoic, Mesozoic and Cenozoic of the South Siberia) which are mandatory for use by regional geological organizations.

Accommodation will be provided in the hostels of SibGIU located on the campus - 7 days, in the camp of SibSIU "Tarbagan" (40 km from Novokuznetsk) - 5 days. 3 days of camping are planned.

The cost of participation in IGFS'21 900 euros. The fee covers visa support, training, teaching, materials, the cultural program and entrance fees to museums, travel to field work sites, excursions, accommodation (16 days). Payment is made in cash in rubles to the cash desk of the University upon arrival of participants. Meals during the stay in the city, with the exception of a welcoming and farewell dinner (only 7 days), are paid by students (about 100-150 euros).

Upon completion of training at the International Summer Architectural School, a certificate of participation will be awarded.

- **Selection criteria**

Students majoring in geology, paleontology and stratigraphy. Good command of the English language.

- **Application**

To apply for summer schools at SibSIU you need to send your CV with Motivation letter and a copy of your international passport for visa support letter via e-mail intersibsiu@mail.ru.

Contact person:

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