



**International Conference**  
**“BIOSTRATIGRAPHY, PALEO GEOGRAPHY AND EVENTS**  
**IN DEVONIAN AND LOWER CARBONIFEROUS”**  
**in memory of Evgeny A. Yolkin**

*(SDS / IGCP 596 joint field meeting)*

with pre- and post-conference excursions  
**“MIDDLE-UPPER DEVONIAN AND LOWER CARBONIFEROUS BIOSTRATIGRAPHY**  
**OF SOUTH URALS AND KUZNETSK BASIN”**

**Ufa, Novosibirsk, Russia, July 20 - August 10, 2011**

**THIRD CIRCULAR**

**Organization**

Siberian Branch of Russian Academy of Sciences (SB RAS)  
Trofimuk Institute of Petroleum Geology and Geophysics (IPGG SB RAS, Novosibirsk)  
Ufa Scientific Center of Russian Academy of Sciences (USC RAS, Ufa)  
Institute of Geology, Ufa SC RAS (IG USC RAS, Ufa)  
Siberian Research Institute of Geology, Geophysics and Mineral Resources (SNIIGGiMS, Novosibirsk)  
International Subcommission on Devonian Stratigraphy (SDS)  
Russian Interdepartmental Stratigraphic Committee (RISC), Devonian and Carboniferous commissions  
IGCP 596

**Co-Sponsorship**

Presidium of the Siberian Branch of Russian Academy of Sciences  
Russian Foundation for Basic Researches  
National IGCP Committee of Russia

**Subjects emphasized in the conference and field trips**

1. Facies and paleontology of marine Middle-Upper Devonian and Lower Carboniferous
2. Records of global events and cyclicity
3. Interregional and global correlations

## Organizing Committee

<i>Co-chairmen:</i>	Bakharev N.K.	Deputy director (IPGG SB RAS)
	Kanygin A.V.	Leading Research Scientist (IPGG SB RAS)
	Sennikov N.V.	Deputy director (IPGG SB RAS)
	Becker R.Th.	Chairman of SDS, Westfälische Wilhelms-University, Germany
	Puchkov V.N.	Director (IG USC RAS)
<i>Vice-Chairmen:</i>	Artyushkova O.V.	Leading research scientist, head of laboratory (IG USC RAS)
	Babin G.A.	Head of Department (SNIIGGiMS)
	Gutak Ya.M.	Head of Department (Kuzbass Academy of Education)
	Izokh N.G.	Senior Research Scientist (IPGG SB RAS)
	Krasnov V.I.	Head of Department (SNIIGGiMS)
	Kulagina E.I.	Leading Research Scientist (IG USC RAS)
	Peregoedov L.G.	Senior Research Scientist (SNIIGGiMS)
	Rodygin S.A.	Assistant professor (Tomsk State University)
<i>Secretary:</i>	Obut O.T.	Senior Research Scientist (IPGG SB RAS)
	Yakupov R.R.	Senior Research Scientist (IG USC RAS)
<i>Members:</i>	Anastasieva S.A.	Junior Research Scientist (IPGG SB RAS)
	Izokh O.P.	Research Scientist (IGM SB RAS)
	Khromykh V.G.	Senior Research Scientist (IPGG SB RAS)
	Kipriyanova T.P.	Leading Programmer (IPGG SB RAS)
	Makarenko S.N.	Senior Research Scientist (Tomsk State University)
	Rodina O.A.	Research Scientist (IPGG SB RAS)
	Sokiran E.V.	Research Scientist (VSEGEI)
	Saraev S.V.	Senior Research Scientist (IPGG SB RAS)
	Savina N.I.	Assistant professor (Tomsk State University)
	Sharovka D.S.	Junior Research Scientist (SNIIGGiMS)
	Shcherbanenko T.A.	Junior Research Scientist (IPGG SB RAS)
	Timokhina I.G.	Research Scientist (IPGG SB RAS)
	Tagarieva R. Ch.	Student (IG USC RAS)
	Yazikov A.Yu.	Research Scientist (IPGG SB RAS)

## Conference

The technical sessions will be held in Novosibirsk (IPGG SB RAS) on 27-29 (morning) July 2011. Oral presentations are scheduled for 20 minutes, each including time for discussion (15 + 5). The conference room will be equipped with a computer and projector for Microsoft PowerPoint presentations. Poster presentations are welcomed.

Languages - official languages of the Conference are English and Russian (oral presentations preferable shall be given in English, synchronous translations are possible).

## General schedule

20.07.11	Arrival in Ufa, hotel, registration
21.07.11 – 25.07.11	Pre-Conference Field Trip to the South Urals
25.07.11 (in the evening) – 27.07.11	Route: Ufa –Novosibirsk by train
27.07.11	Arrival in Novosibirsk, hotel, registration for the conference
27.07.11 – 29.07.11	Conference session, SDS and IGCP 596 meetings in the IPGG, Conference dinner
29.07.11 – 09.08.11	Post-Conference Field Trip to the Salair and Kuznetsk Basin
10.08.11	Departure from Novosibirsk

## Indoor sessions

- 27.07.11                    Opening  
                                  Oral presentations  
                                  Poster presentations
- 28-29.07.11                Oral presentations  
                                  Announcement of a new IGCP 596 “Climate change and biodiversity patterns in the Mid-Palaeozoic (Early Devonian to Late Carboniferous)”  
                                  SDS Business meetings  
                                  Conference dinner

### **IGCP 596 (2011-2015): Climate change and biodiversity patterns in the Mid-Palaeozoic (Early Devonian to Late Carboniferous)**

The Mid-Paleozoic conforms to a time interval of dynamic long-term climate change, which was accompanied by substantial variations in biodiversity. Within the framework of this project we intend to increase and refine the documentation of biodiversity mainly in tropical realms during Early Devonian-Early Carboniferous times and identify links to climate change. Groups distinctive for different ecosystems, especially indicating terrestrial, neritic and pelagic marine environments, are land plants, phytoplankton, foraminifers, sponges, corals, arthropods, cephalopods, echinoderms, brachiopods, bryozoans, conodonts and fishes. In addition to general diversity patterns of different fossil groups, we will study three distinctive intervals in detail, which should document biodiversity and the intensity of evolutionary-pressure during (1) greenhouse (Givetian), (2) beginning climate change (Early-Middle Frasnian; e.g. *punctata*-Zone) and (3) icehouse conditions (Late Famennian–Tournaisian).

The rapid rise of land plants during the Middle Devonian was coupled with strongly decreasing atmospheric CO<sub>2</sub> values from 4000 ppm to nearly present day values of about 350 ppm during the latest Devonian (compare Royer, 2006). This dynamic climate shift was followed by a complete reorganisation of ecosystems with tremendous consequences for marine communities at global scales. The interaction between developments on land, such as the formation of top-soil and its influence on the geochemical composition of marine environments are considered as important factor probably responsible for evolutionary trends in biodiversity. Therefore geochemical analysis of carbon, oxygen and strontium isotopes as well as the total organic content and sulfur of sedimentary rocks will be measured to reconstruct prevailing paleoenvironmental conditions. Additionally, geophysical data related to the magnetic susceptibility and the natural gamma radiation of sediments (in cooperation with IGCP 580) will be used as auxiliary methods for high resolution correlation of biostratigraphic well-documented units belonging to different bathymetric sequences within the tropical belt (Laurussia, Siberia, peri-Gondwana and N-Gondwana).

Results of this project should show whether climate change (e.g. interaction of CO<sub>2</sub> and temperature) from greenhouse conditions during the Early-Middle Devonian to icehouse conditions during the Late Devonian-Early Carboniferous represents a major trigger for variations in biodiversity or if a combination of multiple factors is responsible for such changes.

Related to this study, a network of taxonomic workers will be established, which will help to update the systematics of Mid-Paleozoic terrestrial and marine organisms. These datasets will be made available to the public by using existing e-infrastructures such as the *Paleobiology Database*.

The benefit of this project regards scientific as well as social purposes. On the one hand results of the project might help to understand our present day situation and climate change in future by documentation of Mid-Paleozoic climate change and its effect on biodiversity. On the other hand, our novel combination of global earth system sciences and analytical paleobiology will help to integrate and educate young researchers responsible for the preservation of knowledge in future.

We are pleased to announce the commencement of this project with the 2011 Field Meeting of the International Subcommission on the Devonian System held in Ufa, Novosibirsk, Russia, July 20 - August 10, 2011. Other meetings are planned in Austria (late summer 2011) and a special session will be organized in conjunction with the Conference on Palaeontology and Stratigraphy, held in Thailand (November 28 – December 02, 2011, Nakhon Ratchasima).

### **Pre-conference field excursion**

The field excursion will be held in the South of Urals, from 20th to 25th July 2011, for an examination of the complete Middle – Upper Devonian and Lower Carboniferous sequences in marine terrigenous, carbonate and volcanic facies with fauna (conodonts, ammonoids, brachiopods).

**Guides:** Drs. Olga V. Artyushkova, Elena I. Kulagina and Rustam R. Yakupov

**Accommodation during excursion** in the hotels of Ufa and Sterlitamak.

### **Post-conference field excursion**

The field excursion will be held in the Salair and Kuznetsk Basin, from 29th July to 9th August 2011, for an examination of the Middle–Upper Devonian and Lower Carboniferous sequences in terrigenous, bedded/reef carbonate and volcanic facies with fauna.

**Guides:** Drs. Nikolay K. Bakharev, Nadezhda G. Izokh and Olga T. Obut

**Accommodation during excursion** in the field camp and hotels of Prokop'evsk and Anzhero-Sudzhensk.

## **Transport and food**

For transportation of participants within Ufa and Novosibirsk cars and buses will be used. In the field there will be the following vehicles: bus, 4WD tracks and jeeps.

## **Accommodation**

In Novosibirsk (Akademgorodok) - [Zolotaya Dolina Hotel](#), located within a 7-10 min. walk from the venue of the conference (IPGG SB RAS). During the post-conference trip participants will be provided with sleeping bags and shared tents.

## **Costs (in Euros)**

Registration and field excursion fees to be paid by cash on arrival.

### Registration fee

Professional delegates **150 Euro**

Student delegates **80 Euro**

It will cover the following:

- Attendance at all scientific sessions
- Abstract volume
- Coffee or tea breaks twice a day
- The Conference dinner

### Accommodation in Zolotaya Dolina Hotel, Novosibirsk

Price for one person/night (tentative prices):

- Deluxe – 50 Euro
- Single room – 40 Euro
- Shared room – 30 Euro

Meals (in Akademgorodok) 30 – 50 Euro (per day)

### **Pre-conference field excursion 220 Euro** (4 days)

The fee does not include accommodation (with breakfast) in the hotels and dinner costs. The train fare from Ufa to Novosibirsk will have to be paid by the participants themselves. Hotel rooms and train tickets will be booked by the Organizers.

### Accommodation at Sterlitamak (tentative prices)

Grand-Hotel Vostok, price for one person/night:

- Deluxe – 150 Euro
- Single room – 60-120 Euro
- Shared room – 47 Euro

Hotel Ashkadar, price for one person/night:

- Economy – 20-25 Euro
- Single room – 45-55 Euro
- Shared room – 35 Euro

### Accommodation at Ufa (tentative prices)

- Single room – 40-95 Euro
- Shared room – 50-130 Euro

Train ticket Ufa-Novosibirsk

100 Euro per person

Meals (in Ufa, Sterlitamak) 30 – 50 Euro (per day)

## **Post-conference field excursion (12 days)**

Professional delegates **550 Euro**

Student delegates **300 Euro**

Accommodation in field camps includes:

Field meals

Transportation

Guide book

2-3 nights in the hotel

The fee does not include accommodation on the day of arrival in Novosibirsk and on the day of return from the field on August, 9

## **Medical Care**

The participants should have health insurance for the journey. All foreign participants are required to bring with them health insurance contracts, for the time of the trip, from an insurance company that provides international insurance policy program. Travel companies should give specific information. There will be first aid in Ufa, Novosibirsk, then Prokop'evsk, Gur'evsk, Anzhero-Sudzhensk, Kemerovo. Participants are kindly requested to take along necessary medicine.

## **Climate**

Novosibirsk is situated in the southern part of West Siberia E89 N55. Typical temperatures for the end of July – beginning of August are 15-25 C (day) and 10-15 C (night). Rain is rare. In the South Urals typical temperatures are 15-25 C (day) and 10-18 C (night). Rain is usual.

## **Clothing and field facilities**

You are advised to bring your field boots (rubber boots could be useful in South Urals excursion), warm sweaters, raincoats, swimming suit, caps, hammer and others.

## **Cultural program**

During conference/arrival/departure days we shall try to organize visits to the Central Siberian Geological Museum and tourist route around Akademgorodok (Novosibirsk) and Ufa city.

## **Correspondence**

All correspondence and questions to be addressed to the Symposium Secretariat:

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Conference information is available on *Websites*:

Trofimuk Institute of Petroleum Geology and Geophysics SB RAS (IPGG) <http://biostratigraphy.ipgg.nsc.ru>

Institute of Geology, Ufa Research Center Russian Academy of Sciences  
[http://ig.ufaras.ru/?part\\_id=437&conference\\_id=11](http://ig.ufaras.ru/?part_id=437&conference_id=11)