

2017 – The Year of Ecology in Russia

The 14th International Workshop on Present Earth Surface Processes and Long-term Environmental Changes in East Eurasia

September 15-21th, 2017, Novosibirsk – Altai – Novosibirsk, Russia

Field forum

Giant glaciogenic floods in Altai: geomorphological, geological and hydrological aspects

with

Special session




**Geology and Magmatism of the Altai Orogen
(with a separate excursion)**

Second Circular

Patrons:

 FASO Russia FEDERAL AGENCY FOR SCIENTIFIC ORGANIZATIONS	 International Association of Geomorphologists Association Internationale des Géomorphologues	
 SB RAS <small>Siberian Branch of the Russian Academy of Sciences</small>	National Committee for IAG Science Council of Japan	

Organizers:

 V.S. Sobolev Institute of Geology and Mineralogy Siberian Branch Russian Academy of Sciences	 Novosibirsk State University *THE REAL SCIENCE
 INSTITUTE OF NATURE AND ENVIRONMENTAL TECHNOLOGY	Japan Society of Erosion Control Engineering

Sponsors:

 <p>THE MINISTRY OF EDUCATION AND SCIENCE OF THE RUSSIAN FEDERATION</p> <p>PROGRAM 220 RESEARCH PROJECT 14.Y26.31.0018</p>	<p>The Ministry of Education and Science of the Russian Federation Program 220, Research Project 14.Y26.31.0018</p>
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 <p>日本地形学連合</p>	<p>Japanese Geomorphological Union</p>
 <p>V.S. Sobolev Institute of Geology and Mineralogy Siberian Branch Russian Academy of Sciences</p>	<p>Institute of Geology and Mineralogy Siberian Branch Russian Academy of Sciences</p>
 <p>Geological - Geophysical Department</p>	<p>Novosibirsk State University Geological – Geophysical Department</p>
 <p>Physical Department Laboratory of Radiocarbon Dating Methods</p>	<p>Novosibirsk State University Physical Department Laboratory of Radiocarbon Dating Methods</p>
 <p>RUSSIAN FOUNDATION FOR BASIC RESEARCH</p>	<p>Russian Foundation for Basic Research</p>

In memory of Professor Takayoshi Kawai



Prof. Kawai initiated Russian-Japanese collaborative programs back in the 90-ties and patronized conferences on environmental changes in East Eurasia.

Web-site

All information about the Workshop and services are in the Workshop Web-site:

<http://altai2017.igm.nsc.ru/> - main event

<http://altai2017special.igm.nsc.ru/> - special session

1. About the Workshop

The purpose of the Workshop is to exchange last advances in studying present earth surface processes and short-term and long-term environmental changes in East Eurasia for the better understanding of Earth landscape and climate evolution. The first International Workshop on Present Earth Surface Processes and Long-term Environmental Changes in East Eurasia was held in Daejeon, Korea (2004), and followed by later in Kanazawa, Japan (2005), Seoul, Korea (2006), Nanjing, China (2007), Hakodate, Japan (2008), Taipei, Taiwan (2009), Jeju Island, Korea (2010), Chengdu, China (2011), Kobe, Japan (2012), Kwangju, Korea (2013), Nanjing, China (2014) , Taipei, Taiwan (2015) and Okinawa, Japan (2016).

The Workshop 2017 is proposing as a field forum: excursion to the Altai Mountains which are remote from the scientific centers. However, it is a fast developing touristic place in Russia with good roads and infrastructure. Valleys of the Katun' and Chuya rivers are famous by their impressive traces of late Pleistocene glaciogenic superfloods and the Kurai and Chuya basins contain landforms and sediments of giant paleolakes sourced these superfloods.

2. Main topics:

- ❖ Paleohydrology, paleolimnology and paleoglaciology
- ❖ Present lake-catchment processes: observations and measurements
- ❖ Present and past environmental changes and natural hazards
- ❖ Sediment chronology
- ❖ Global and regional environmental changes
- ❖ Interaction of natural and human-induced ecosystem changes
- ❖ Environmental change analogue and numerical simulation and forecast

3. Special session:

Special session “Geology and Magmatism of the Altai Orogen” with a separate excursion. The session is an event of the Russian Federation Ministry of Education and Science Research Project # 14.Y26.31.0018 “A multidisciplinary study of Pacific-type orogenic belts and development of a holistic model linking evolution of oceans, their active margins and mantle magmatism” held in the Novosibirsk State University and lead by Prof. Shigenori Maruyama, Tokyo Institute of Technologies. The Session logistically matches the Workshop. Detailed information about the Session is in separate circular and in the Web-site <http://altai2017special.igm.nsc.ru/>.

4. Senior Representatives/ Sponsoring Organizations

The Workshop is endorsed by:

- ❖ Federal Agency for Scientific Organizations (FASO), Russia
- ❖ Siberian Branch of Russian Academy of Sciences (SB RAS)
- ❖ International Association of Geomorphologists (IAG)
- ❖ National Committee for IAG, Science Council of Japan
- ❖ Russian Association of Geomorphologists (RuAG)

Organizers

- ❖ Institute of Geology and Mineralogy SB RAS, Russia
- ❖ Novosibirsk State University, Russia
- ❖ Japanese Geomorphological Union
- ❖ Institute of Nature and Environmental Technology, Kanazawa University, Japan
- ❖ Korea Institute of Geoscience and Mineral Resources (KIGAM), Korea
- ❖ Institute of Paleontology and Geology (IPG), Mongolian Academy of Sciences, Mongolia
- ❖ State Key Laboratory of Lake Science and Environment, NIGLAS, China
- ❖ State Key Laboratory of Loess and Quaternary Geology, Institute of Earth Environment, CAS, China
- ❖ State Key Laboratory of Geo-hazard Prevention, Chengdu University of Technology, China
- ❖ National Taiwan University, Taiwan

Sponsors

- ❖ The Ministry of Education and Science of the Russian Federation, Program 220, Research Project 14.Y26.31.0018

- ❖ Federal Agency for Scientific Organizations (FASO), Russia
- ❖ Japanese Geomorphological Union
- ❖ Institute of Geology and Mineralogy Siberian Branch Russian Academy of Sciences
- ❖ Novosibirsk State University Geological – Geophysical Department
- ❖ Novosibirsk State University Physical Department, Laboratory of Radiocarbon Dating Methods
- ❖ Russian Foundation for Basic Research

5. Secretaries-General:

Program Committee

Chairmen:

Prof. Kenji Kashiwaya, Japanese Committee for International Association of Geomorphologists (IAG), Science Council of Japan, co-chair. Email: kashiwaya@staff.kanazawa-u.ac.jp

Members:

Prof. Yoshimasa Kurashige Japanese Geomorphological Union, president, University of Shiga Prefecture

Prof. Tomomi Marutani, Japan Society of Erosion Control Engineering, president, Hokkaido University

Prof. Noriko Hasebe, Kanazawa University, Institute of Nature and Environmental Technology, Japan

Dr. Tserentsegmid Oyunchimeg, Institute of Paleontology and Geology, Mongolian Academy of Sciences, Mongolia

Dr. Dong-Yoon Yang Korea Institute of Geoscience and Mineral Resources, Korea;

Prof. Jiun-Chuan Lin, National Taiwan University, Taiwan, Global Change Research Center, director

Prof. Chuan Tang, Chengdu University of Technology, State Key Laboratory of Geo-hazard Prevention, China

Prof. Ji Shen, Nanjing Institute of Geography and Limnology CAS, State Key Laboratory of Lake Science and Environment, China

Prof. Weijian Zhou, Institute of Earth Environment CAS, State Key Laboratory of Loess and Quaternary Geology, director

Local Organizing Committee

Chairmen:

Dr. Sergey Krivonogov, Institute of Geology and Mineralogy SB RAS (IGM SB RAS),
Novosibirsk State University (NSU). Email: s_krivonogov@mail.ru

Secretary:

Dr. Victoria Lyamina, IGM SB RAS, NSU. Email: vbalandis@yandex.ru

Special session chairmen:

Dr. Inna Safonova, IGM SB RAS, NSU. Email: inna03-64@mail.ru

Special session Secretary:

Ms. Maria Kolesnichenko, IGM SB RAS, NSU. Email: manunex2006@yandex.ru

Members:

Dr. Ivan Zolnikov, IGM SB RAS, NSU

Dr. Igor Novikov, IGM SB RAS

Dr. Nikolay Dobretsov, IGM SB RAS

Dr. Ekaterina Parkhomchuk, IC SB RAS, NSU

Dr. Eugeny Deev, Institute of petrol geology and geophysics SB RAS, NSU

Dr. Natalia Rudaya, Institute of archaeology and ethnography SB RAS, NSU

Dr. Vyacheslav Dementev, IGM SB RAS, NSU

Dr. Nadezhda Glushkova, IGM SB RAS, NSU

Ms. Daria Chupina, IGM SB RAS

Ms. Sofia Kotler, IGM SB RAS, NSU

6. Dates and place of the Workshop

September 15-21, 2017.

Opening and closing sessions September 15 and 21, respectively: Institute of Geology and Mineralogy SB RAS, Koptyuga Ave. 3, Novosibirsk 630090, Russia.

Field forum September 16-20: Russian Altai Mountains. See **Paragraph 12** for details.

7. Contact information

For scientific questions:

Prof. Kenji Kashiwaya. Email: kashiwaya@staff.kanazawa-u.ac.jp

Dr. Sergey Krivonogov. Email: s_krivonogov@mail.ru

Dr. Inna Safonova. Email: inna03-64@mail.ru (special session)

For organizational questions:

Dr. Sergey Krivonogov. Email: s_krivonogov@mail.ru

Dr. Victoria Lyamina. Email: ybalandis@yandex.ru (secretary)

Dr. Inna Safonova. Email: inna03-64@mail.ru (special session)

Ms. Maria Kolesnichenko. Email: manunex2006@yandex.ru (secretary)

8. Presentations

Oral and poster. Oral presentation - 15 minutes. The number of oral talks will be limited to 30.

9. Abstracts

Extended abstracts will be published in the Workshop Abstract volume. We accept up to three pages texts including figures (b/w or color), tables and list of references as the **Microsoft Word .doc or .docx** files. Abstracts can be submitted via the “[Submit abstract](#)” page of the Workshop Web-site <http://altai2017.igm.nsc.ru/> or sent directly to the Organizing Committee, email s_krivonogov@mail.ru . **The deadline is August 1st.**

The [Sample file](#) for the abstract formatting can be downloaded from the Workshop Web-site <http://altai2017.igm.nsc.ru/> “[Submit abstract](#)” page, or use the following example (font Times New Roman, 10.5).

INTERMEDIATE BASINS OF THE LAKE CHANY CATCHMENT, SOUTHERN WEST SIBERIA

Sergey Krivonogov ^{1,2}, Viktor Gusev ^{1,2}, Ekaterina Parkhomchuk ^{1,3}, Snezhana Zhilich ^{1,4}

¹ Novosibirsk State University, Pirogova St. 2, Novosibirsk 630090, Russia

² Institute of geology and mineralogy SB RAS, Koptuyuga Ave. 3, Novosibirsk 630090, Russia

³ Institute of catalysis, Lavrentieva Ave. 5, Novosibirsk 630090, Russia

⁴ Institute of archaeology and ethnography, Lavrentieva Ave. 17, Novosibirsk 630090, Russia

carpos@igm.nsc.ru

Chany is the largest, ca. 2000 km², lake in Western Siberia. It is also the largest endorheic lake which catchment, ca. 18000 km², is completely situated on the Russian territory (Figs. 1, 2). The lake is fed by two medium size rivers Kargat and Chulym sourced in the Vasyugan Swamp of the central West Siberia and providing 95% of the lake water budget (Savkin et al., 2006). The lake has very changeable water level depending on the climate. Additionally, the lake consists of several sub-basins of variable salinity: fresh, brackish and hypersaline. All this raised our interest to the Lake Chany Basin. Our preliminary study (Krivonogov et al., 2015) (Fig. 1) showed that the lake appeared as a swampy wetland ca. 8 cal ka BP and became a lake of modern extent only 4 cal ka BP. This result considerably changes the previous considerations about the Holocene history of the lake (Smirnova and Shnitnikov, 1982; Orlova, 1992; Tarasov et al., 1996).

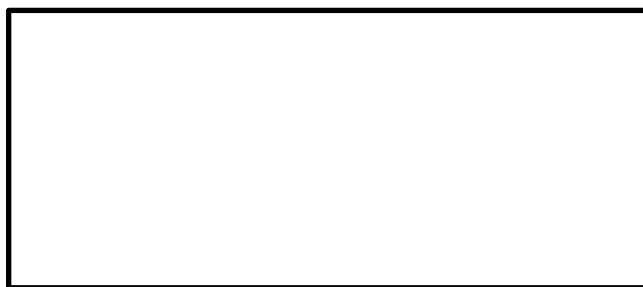


Figure 1. The Lake Chany Basin...

Table 1

Radiocarbon ages of the sediment core

References:

Andreev A.A. et al., 2004. Quaternary International 122, 69–84. Bazarova V.B. et al., 2011. Russian Geology and Geophysics 52 (3), 333–342. Bezrukova E.V. et al., 2008. Doklady Earth Sciences 420 (4), 658–663. Bezrukova E.V. et al., 2010. Palaeogeography, Palaeoclimatology, Palaeoecology 296, 185–198.

Keywords:

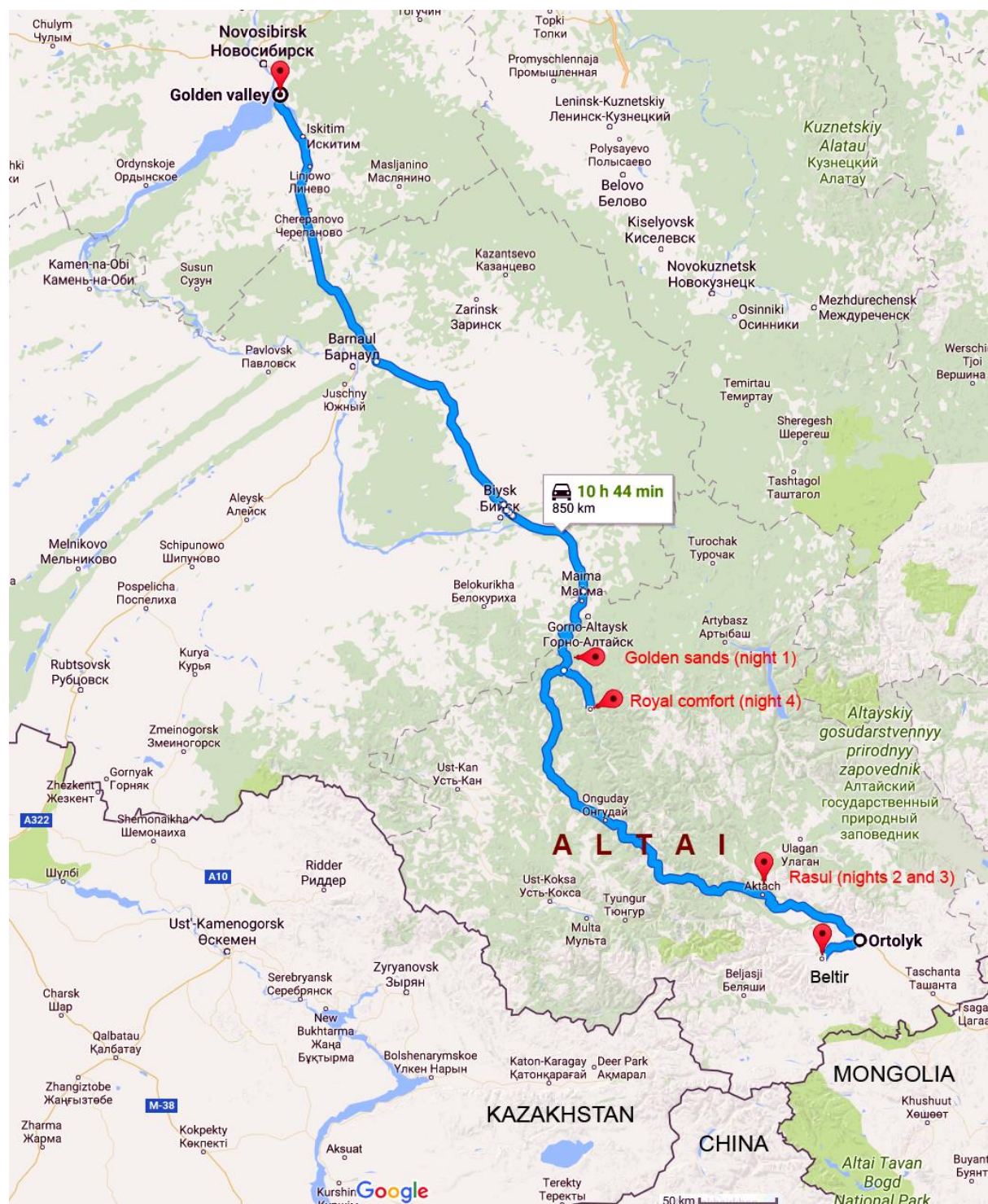
Hydrological and climatic changes, radiocarbon, West Siberia, Lake Chany, Holocene.

10. Publication of the Workshop materials

We have a preliminary agreement with the **Journal of Asian Earth Sciences** for publication of the Workshop materials. We ask the participants to express their interest/intention to write a full-text paper. This question will be finally decided during the Workshop.

11. Field forum (excursion)

September 16 – 21, 2017. Route Novosibirsk – Gorno-Altaysk – Aktash Village (final destination) – Chemal Village – Novosibirsk. The route takes the Federal Highway P256 (former M52, a part of the Asian Highway AH4). Its total one way distance is 900 km.



We provide suitable buses for transportation and comfortable hotel accommodation. The participants' Registration fee covers all expenses for the excursion.

12. The Workshop schedule

Sept. 15, Friday: Novosibirsk Scientific Center – Academic City or Akademgorodok

Arrival to Novosibirsk, accommodation in the Golden Valley Hotel

14:00 – Registration.

15:00 – Opening ceremony and first day session.

19:00 – Ice-breaking party.

Overnight in the Golden Valley Hotel.

Sept. 16, Saturday:

8:00 – Departure to the Altai, arrival to a hotel on the Katun' River.

18:00 – Arrival to the Golden Sands Hotel, accommodation.

19:00 – Evening oral session.

Overnight in the hotel.

Sept. 17, Sunday:

9:00 – En-route observation of superflood landforms and outcrops along the Katun' and Chuya rivers. Arrival to the Rasul Hotel in the Aktash Village, accommodation.

20:00 – Evening poster session.

Overnight in the hotel.

Sept. 18, Monday:

9:00 – En-route observations of paleoglacier and paleolake landforms and outcrops in the Kurai and Chuya sedimentary basins.

20:00 – Evening poster session.

Overnight in the same hotel.

Sept. 19, Tuesday:

9:00 – Moving to Chermal Village on the Katun' River. En-route observation of mountainous landscapes, glacier areas, stonefalls landslides and archaeological sites.

18:00 – Arrival to the Royal Comfort Hotel, accommodation.

19:00 – Banquet

Overnight in the hotel.

Sept. 20, Wednesday:

9:00 – Moving back to Novosibirsk. En-route observation of landscapes and outcrops, visiting “Paleomuseum”.

Overnight in the Golden Valley Hotel.

Sept. 21, Thursday:

9:00 – Last day session and closing the Workshop

13:00 – Sightseeing.

Departure

13. Important dates

1st of June – deadline for **early registration**.

1st of July – tentative deadline for sending invitations and documents for getting visas to the participants.

1st of August – deadline for accepting abstracts.

15th of August – publication of the Workshop scientific program and schedule.

1st of September – deadline for **middle registration**, deadline for collecting arrival and departure information from the participants.

15th of September – the Workshop starts.

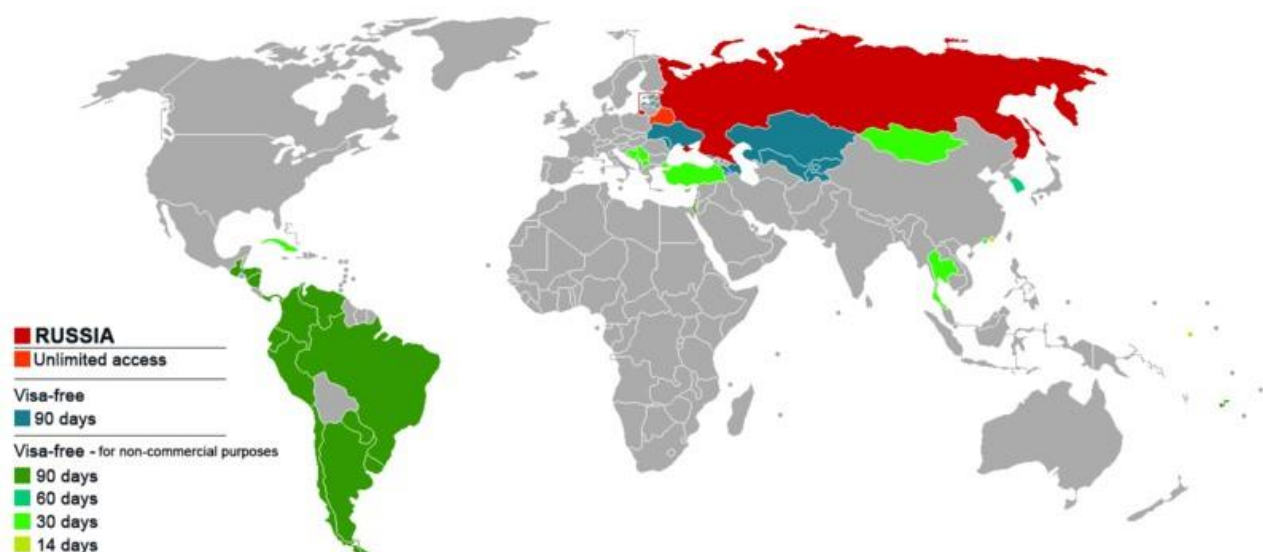
14. Registration

Via the Workshop Web-site <http://altai2017.igm.nsc.ru/>: create your personal account in the “[Register](#)” page and fill the forms.

15. Information on travel and expenses

1) Visa

Some foreign participants will be required to obtain visa to enter Russia. Please check your visa requirements on the map and contact the relevant Consulate General of Russia in your home country.



A formal letter of invitation is a likely prerequisite for visa application, and if this is the case, such a letter will be sent on request soon after you let us know. Please fill the “[Ask visa](#)” form

in the Workshop Web-site <http://altai2017.igm.nsc.ru/> to obtain the Invitation Letter. The default duration of visa for the Workshop participants is 10 days, September 14 to 23. Contact Dr. Sergey Krivonogov, s_krivonogov@mail.ru, regarding any questions concerning visa arrangement.

2) Registration fee (Russian Rubles):

The registration fee covers transportation, accommodation and meals during the five days of the field forum. Abstract submission is free of charge. Abstracts without participation are welcome.

Early registration February to May	Regular registration June to August	Late registration September
34,000	36,000	38,000

We accept payments by bank transfer in advance and in cash upon arrival. See the “[Pay registration fee](#)” form in the Workshop Web-site <http://altai2017.igm.nsc.ru> for details.

The registration fee does not cover accommodation and meals in Novosibirsk at the days of arrival and departure.

3) Currency exchange:

Ruble (RUB) is the official currency in Russia. There are exchange offices in the airport and in banks. You can change US Dollars and Euro easily, other currencies are less common. Visa & MasterCard are acceptable in hotels, bars and department stores. ATM facilities are available to obtain RUB cash from your credit card. Currency exchange rates are fluctuating, please check them in the Internet.

4) Insurance liability

Participants should note that emergency medical costs are not covered by the registration fee.

5) Hotel information

The Organizing Committee recommends the **Golden Valley Hotel** located in the Novosibirsk Scientific Center (Akademgorodok). The hotel is situated in the walk distance, less than one km, from the Institute of Geology and Mineralogy SB RAS, the Workshop place.



The Organizing Committee will reserve rooms for the Workshop participants on their request. Accommodation in this hotel is necessary for the arrival and departure days, September 15 (and 14) and 20 (and 21), respectively. The hotel provides rooms at various rates and comfort degrees (<http://www.gold-valley.ru/pages/rooms>). Ca. 10% discount is available for the Workshop participants. Prices including discount are (RUB):

Single bed suit (2 suits are in the hotel)	5800
Double bed suite (11)	3700
Two beds suit (5)	3700 (1850 per person)
Double bed semi-suit (56)	2800
Standard (first category) twin with two beds (20)	2800 (1400 per person)
Standard (first category) single (22)	2300
Standard single (28)	1500
Standard twin (14)	2600 (1300 per person)
Standard for four persons (2)	2000 (500 per person)
Breakfast on request is additionally charged to	320 RUB

Check-in/Check-out time is 12:00

Early arrival accommodation:

Before 6 a.m.	Half-price
After 6 a.m.	Hourly pricing

The field excursion starts from the gate of the hotel on September 16th 8:00 a.m.

The Organizing Committee is responsible for the participants' accommodation during the field trip.

Golden Sands Hotel in the bank of the Katun' River is designed in chalet style
<http://www.zolotyipeski.ru/>.



The hotel has suitable double-bed, twin and single rooms, conference-hall and recreation zone. Optionally Russian banya is available. We will stay overnight there and will have an evening oral session on September 16.

Rasul Hotel in Aktash Village, is the only available accommodation in the area. It can accommodate ca. 70 guests and provides rooms in the main building and several nice wooden cottages constructed from Siberian pine timbers <http://en.rasulka.ru/>.



In addition, the hotel has a spa-center with a big swimming pool, three types of bath (sauna, steam bath and Russian banya) and other recreation procedures available for the participants on September 17 and 18 evenings (swimsuit is required). We will have two poster sessions in this place.

Royal Comfort Hotel in Chermal Village is a business-style hotel providing standard rooms, conference and banquet halls <http://royalcomfort88.ru/>. We will stay overnight there and will have a final banquet on September 19.



**We are waiting for you in Novosibirsk (Siberia, Russia) in September 2017!
Welcome to the Altai!**