

Russian Academy of Sciences
Earth Sciences Section RAS
Science Board on Precambrian Problems
Institute of Geology, Karelian RC, RAS
Geological Institute, RAS
Geological Institute, Kola Science Centre, RAS
Institute of Precambrian Geology and Geochronology, RAS
Geological Survey of Finland

International Conference

«PRECAMBRIAN HIGH-GRADE MOBILE BELTS»

high-grade mobile belts
Precambrian **P** **e** **U**P-UHP UHT **M** **B** - PMB-2014
Petrozavodsk. Russia

Petrozavodsk, Karelia, Russia
17–19 June 2014

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FIELD TRIPS LEADERS

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Shauket **Baltybaev** (St.Petersburg, Russia)

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PURPOSE OF MEETING

Precambrian high-grade mobile belts (PMB) are major crustal structures preserved in ancient cratons or along their margins. Well-known PMBs are widely distributed all over the world, including Lapland–Belomorian (Fennoscandian Shield); Limpopo, Ubendian, Namaqua–Natal, Mozambique (African Shield); Southern Granulite Terrane, Eastern Ghats (Indian Shield); Trans North China Orogen, Khondalite belt (North China craton); Stanovoy (Aldan Shield); Musgrave Range (Australian Shield); Grenville, Kapuskasing uplift (North American Shield); Itabuna-Salvador-Curaca, Brasilia, Ribeira, Dom Feliciano (Brazilian Shield); and Enderby Land, Rayner (Antarctic Shield). The distinctive features of PMB's are large-scale, multiphase HP-UHP and HT-UHT metamorphic processes, and intense and multiple deformation. The deep crustal and lithospheric structure of PMBs differs from that of Archaean cratons in both thickness and internal architecture. At the same time, protoliths of some PMBs comprise rock associations similar to the volcano-sedimentary assemblages of greenstone belts and TTGs characteristic of Archaean cratons. PMBs should be distinguished from lower-grade Precambrian orogenic belts such as the Svecofennian (Fennoscandian Shield), Ketilidian and Trans-Hudson (North American Shield), which formed similar to modern accretionary orogens.

In spite of a great progress in the study of PMBs, there are some major unsolved problems the most significant of which will be discussed at the conference:

- **Archaean craton – mobile belt relationships**
- **Metamorphic events in PMBs**
- **Magmatic events in PMBs**
- **Geochronology of tectono-metamorphic events in PMBs**
- **Deep lithospheric structure of PMBs**
- **Geodynamic models for the origin and evolution of PMBs**
- **Metallogeny and industrial minerals in PMBs**
- **Role of deep crustal fluids in the evolution of PMBs**

CONFERENCE LANGUAGE

English.

Questions and discussions will be simultaneously translated into Russian.

IMPORTANT DATES

15 December, 2013: Accepting applications for attendance (with the title of presentation)

1 May, 2014: Deadline for submission of abstracts.

15 May, 2014: Circulation of Conference Programme

12-15 June, 2014: Pre-conference field trip

16 June, 2014: First day of registration of attendees.

17-19 June, 2014: Conference

19-23 June: Post-conference field trip

VISA

Citizens of most countries will require an entry visa to visit Russia. The Institute of Geology, KarRC, RAS, will provide participants with all papers required for visa application. It takes about two weeks in Petrozavodsk to obtain some of the official papers required for visa applications. Therefore, please request these papers from the Organizing Committee at least one month prior to your visit.

REGISTRATION FEE*: 2500 Roubles (approx. € 55 or USD 75)

(in late January 2014 1 Euro was about 45 Roubles, 1 USD was about 34 Roubles)

*includes abstract volume, coffee breaks and an icebreaker party.

FIELD TRIPS

“Belomorian and Svecofennian mobile belts in the eastern Fennoscandian Shield”

Persons in charge of the field trips: Alexander Slabunov and Raimo Lahtinen.

Pre-Conference field trip

12–15 June: Geology of the Svecofennian Orogenic Belt (Finland, Russia)

Cost – approx. € 800. This includes accommodation, transportation and meals.

The field trip will start in Helsinki (Finland) and finish in Petrozavodsk (Russia).

Post-Conference field trip

19-23 June: Archaean and Palaeoproterozoic eclogite-bearing complexes of the Belomorian Province on the White Sea shore (Gridino area) and in the southwestern Kola Peninsula (localities Uzkaya Salma, Shirokaya Salma, Kuru-Vaara).

Cost – 20.000 Roubles (approx.. € 500, \$ 700). This includes all transportation, train from Petrozavodsk to Engozero Station, hotel accommodation and meals.

The field trip will end on 23 June at about 5 p.m. in Kandalaksha. Depending on your plans, you may leave Kandalaksha for Moscow or St.Petersburg by train or by plane (via Murmansk or Apatity Airports). We recommend you to leave by train. The most convenient train departs from Kandalaksha Station on 24 June at 0.48 and arrives in St.Petersburg (Ladozhsky Railway Station) on 24 June at 10.44 p.m. and in Moscow (Leningradsky Railway Station) on 25 June at 7.28 a.m.

Those who depart from Kandalaksha by train will be offered dinner and a recreation programme before departure.

You will be met at Moscow and St.Petersburg Railway Stations and taken, if necessary, to the airports and hotels.

We will help you book train tickets (the cost of the field trip does not include the cost of travel from Kandalaksha) and reserve hotel accommodation, if necessary. You can book air tickets yourself though the Internet.

You can depart from Murmansk to Moscow (Sheremetyevo Airport) or St.Petersburg (Pulkovo Airport). The plane leaves Murmansk on 23 June at 7.55 p.m. and arrives in Moscow at 10.25 p.m. (or leaves Murmansk on 24 June at 7.00 a.m. and arrives in Moscow at 9.15 a.m.) and leaves Murmansk on 23 June at 9.15 p.m. and arrives in St.Petersburg at 11.10 p.m. You will be taken to Murmansk Airport by van (drive time 4 hours). Summer schedule of flights from Apatity will be announced later.

Should you have any questions or problems, we will discuss them individually with you.

ACCOMMODATION

Participants may choose and reserve a room in any city hotel. Information on hotels is available at the [Web-site](#)

The following hotels are closest to the conference venue:

Onego Palace - Website: www.onegopalace.com
Standard Single Room— 4250 Roubles/day

Onega Castle Hotel – Website: www.onegozamok.ru
Standard Single Room – 2800 Roubles/day

Park Inn (Raddisson) - Website: www.parkinn.com/hotel-petrozavodsk

Prionezhskiy - Website: <http://www.nikolaevskie-oteli.ru>
Standard Single Room: 1720-2460 Roubles/day

Karelia - Website: <http://karelia-hotel.ru>
Standard Single Room: 3960 Roubles/day;
Double Room 4960 Roubles/day

TRAVEL INFORMATION

Petrozavodsk is the capital of the Karelian Republic, northwest Russia. It is located northeast of St. Petersburg and is easily reached by eight hours train travel. There are both day and night trains departing from the Ladozhsky Station, an economy class sleeper ticket will cost about 1500 Rubles.

Moscow is 14 hours away on an overnight train service; trains depart from the Leningradsky Station with economy class tickets costing from 4500 Rubles.

The small Petrozavodsk Airport is located 12 km from the city, with flights from Moscow (Domodedovo).

The organizers will provide information to participants concerning their individual travel to Petrozavodsk from Moscow or St. Petersburg.

More information on Petrozavodsk is available via
<http://www.lonelyplanet.com/russia/northern-european-russia/petrozavodsk>
<http://wikitravel.org/en/Petrozavodsk>
http://www.tripadvisor.com/Travel_Guide-g298506-Petrozavodsk_Republic_of_Karelia_Northwestern_District.html

ABSTRACT

The text of an abstract is 2 pages long, not counting Figures and Tables. Deadline for submission of abstracts is 1 May, 2014. The abstract template will be available on the conference website.

Abstract pattern

Title of abstract

(Times New Roman 14, bold)

One-line spacing

Smith A. ¹, Ivanov A.B. ²

(Times New Roman 12, bold)

One-line spacing

¹Organization, city, country, e-mail

²Organization, city, country, e-mail

(Times New Roman 9, normal)

Two-line spacing

The text of an abstract is 2 pages long, not counting **Figures and Tables**. The text is in Microsoft Word format; font Times New Roman 12, single spacing. All margins are 2.0 cm wide. The text is aligned in width. Each paragraph begins with a 1.25 cm indent. Words are not carried over and pages are not numbered. References in the text (not more than 5) are indicated as a number, e.g. [1]. Each figure (black-and-white only) and table is submitted as a separate file, as are figure captions. Figures in vector format have a line thickness of at least 0.5-1.0 point. Scanned figures have a resolution of at least 300 dpi. Files in TIF-format are submitted without LZW compression, JPEG stored with quality "5".

Two-line spacing

References (Times New Roman 9, bold, normal)

1. Ivanov A.B. Early Precambrian of the Baltic Shield. London: The Geological Society. 1976. 150 p. (*for books*)
2. Petrov A.V. Paleozoic evolution of magmatism in the southern Urals // Evolution of intracontinental mobile belts. Abstracts. Ekaterinburg: UrO RAS. 2003. P. 95-96. (*for abstracts*)
3. O'Brien P. J. and Ritzler J. High-pressure granulites: formation, recovery of peak conditions and implications for tectonics // J. Metamorphic Geology. 2003. V. 21. No. 1. P. 3-20. (*for papers*)