IAGOD

e-NEWSLETTER

2010-2011

THE INTERNATIONAL ASSOCIATION ON THE GENESIS OF ORE DEPOSITS

Compiled by Sergei Cherkasov, IAGOD SG
Vernadsky State Geological Museum of RAS
Moscow
CONTENTS

General Report for 2010-2011 3

Reports of IAGOD national groups 7

Reports of IAGOD working groups (WG) and Commissions 22

Announcements 29

Publication order form (2012) 39

This newsletter is being sent out in digital form. Hard copy can be sent upon request.
General Report of the International Association on the Genesis of Ore Deposits (IAGOD) for 2010-2011

(Sergei Cherkasov, IAGOD SG)

Goals
IAGOD promotes international cooperation in the study of the genesis of ore deposits and participates closely with other international bodies in the field of ore deposits research in a range of international programmes, including several IGCP projects. Current membership stands at around 800 economic geologists from more than 60 countries, both individual members and members in 9 National IAGOD Groups (China, Kazakhstan, Kyrgyzstan, Mongolia, Russia, Tajikistan, Georgia, Uzbekistan, Ukraine). Vietnam group (with about 20 new members) has become a member of the association since the end of 2009. The society aims to bring scientists together within working groups and at the larger quadrennial meetings and interim conferences. IAGOD members are involved on all aspects of research on ore deposits from intercontinental GIS to nanoscale ore mineralogy.

Individual IAGOD members pay a nominal €10 Euro in annual dues, with national groups paying a lump sum (from €50 to €500 Euros, depending on group size). Corporate members pay €100 Euro annually.

Organization
Scientific activities of IAGOD are carried out within the following Commissions and Working Groups:
- Commission on Tectonics of Ore Deposits (CTOD)
  - Working Group on 'Global Tectonics & Metallogeny (CTOD)'
  - Working Group on 'Remote Sensing Methods for Tectonics & Ore Prospecting'
- Commission on Paragenesis (PaC)
- Commission on Industrial Minerals and Rocks (COIMR)
- Commission on Ore Deposits in Mafic & Ultramafic Rocks (CODMUR)
- Commission on Placer Deposits
- Working Group on Skarn Deposits
- Working Group on Tin & Tungsten Deposits (WGTT)
- Working Group on Ores and Metamorphism (WGOM)
- International Uranium Group of IAGOD
- Working Group on Thermodynamics of Natural Ore-Forming Fluids

IAGOD holds its main business meetings every two years, coinciding with the International Geological Congress and alternately with IAGOD’s own Quadrennial Symposia. The following council serves for the period 2008-2012:

<table>
<thead>
<tr>
<th>Position</th>
<th>Person</th>
<th>Contact details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Past President</td>
<td>A.I. Khanchuk</td>
<td>Russia, Far East Geological Institute, FEB RAS, 159, Prospekt 100-leiya, Vladivostok - 6900022, Russia. Tel. (+7) 4232 31-8323; Fax (+7) 4232 31-7847 <a href="mailto:director@fegi.ru">director@fegi.ru</a></td>
</tr>
<tr>
<td>Honorary Past President</td>
<td>I.R. Plimer</td>
<td>Australia, University of Melbourne, Department of Geology, Parkville, Victoria 3052, Australia Tel (+61) 3-9344 6520; Fax (+61) 3-9344 7630 <a href="mailto:ian.plimer@adelaide.edu.au">ian.plimer@adelaide.edu.au</a></td>
</tr>
<tr>
<td>President</td>
<td>N. J. Cook</td>
<td>Australia, The University of Adelaide, SA 5005, North Terrace, School of Earth &amp; Environmental Sci, Tel. +61 8 8313 0686, Fax +61 8 8303 4347 <a href="mailto:nigel.cook@adelaide.edu.au">nigel.cook@adelaide.edu.au</a></td>
</tr>
<tr>
<td>First Vice President</td>
<td>I.T. Graham</td>
<td>School of Biological, Earth and Environmental Sciences, University of New South Wales Sydney, NSW 2052 Australia <a href="mailto:i.graham@unsw.edu.au">i.graham@unsw.edu.au</a></td>
</tr>
<tr>
<td>Second Vice President</td>
<td>Li Ziyining</td>
<td>PR China, Beijing Research Institute of Uranium Geology10 Xiao-guan-dong-hi, AnwaiPO Box 9818 Beijing 100029, PR China Tel. (+86) 10 64960460; Fax. (+86) 10 64917143 <a href="mailto:zyi9818@126.com">zyi9818@126.com</a></td>
</tr>
<tr>
<td>1st Vice President at Large</td>
<td>Alexander Bobrov</td>
<td>Ukraine, Autozavodska Str., 78A, 04114, Kyiv, Ukraine, Ukrainian State Geological Research Institute; tel/fax: +380-44-430-70-24, e-mail: <a href="mailto:al_bobrov@rambler.ru">al_bobrov@rambler.ru</a></td>
</tr>
<tr>
<td>2nd Vice President at Large</td>
<td>Mao Jingwen</td>
<td>China, Institute of Mineral Deposits, CAGS, 26, Baiwanzhuang Road, Beijing 100037 Tel. (+86) 10 6832 7333, Fax (+86) 10-6831 0894 <a href="mailto:jingwenmao@263.net">jingwenmao@263.net</a></td>
</tr>
<tr>
<td>Secretary General</td>
<td>Sergei</td>
<td>Russia, Vernadsky SGM RAS 11-2 Mokhovaya street, Moscow, 125009 Russia tel.: +7-(495)-629-76-81; fax +7(495)-629-76-91 <a href="mailto:sergy@sgm.ru">sergy@sgm.ru</a></td>
</tr>
</tbody>
</table>
Chief accomplishments in 2010-2011

Meetings and conferences

13th Quadrennial IAGOD Symposium “GIANT ORE DEPOSITS DOWN-UNDER” held in Adelaide, Australia (6-9 April, 2010), has been the major IAGOD event during the reporting period 2010-2011. Nearly 400 participants have attended the meeting including pre- and post-conference fieldtrips, including Olympic Dam and Prominent Hill (South Australia), mines of Western Tasmania, opal fields of the Great Artesian Basin (New South Wales and South Australia) and a preconference trip across New South Wales (visiting the Cadia, North Parkes, Cobar and Broken Hill deposits) and down into South Australia (visiting the Olary Province, Flinders Ranges, historic Burra copper mine).

Scientific program of the Symposium contained 21 sessions including:

- Giant Ore Deposits
- New geophysical & geochemical exploration techniques
- Mineralogy from exploration to beneficiation
- Uranium Resources
- Magmatic Ore Deposits
Southeast Asia
North, Central & South America
Gold Deposit
New South Wales
Queensland & Northern Territory
New Zealand, Papua New Guinea
Present-day Mineralising Systems
VMS Deposits
Gem Deposits
Western Australia
Africa and Madagascar
South Australia
Victoria & Tasmania
China & East Asia
Fluvial palaeo systems & onshore basins: evolution & mineral deposits
Russia & Central Asia

The Symposium has been a real success, which we have to be thankful for to the Organizing Committee, namely:

Professor Ian Plimer, Chair | University of Adelaide
Martin Fairclough, Treasurer | Chief Geoscientist, Geological Survey | PIRSA
Dr Ian Graham, Secretary | University of New South Wales
Dr Tim Baker, Manager - Geological Survey Branch | PIRSA
Dr Nigel Cook, IAGOD President
Tania Davies, PACE Marketing | PIRSA
Dr Andrew Rowett, Manager - Minerals Information and Promotion Branch | PIRSA
Kerry Stanley, Administration Officer | PIRSA
Anne Walker, Director Industry Marketing | SACOME
Annemarie Williamson, Graphic Designer | PIRSA
Khin Zaw, CODES | University of Tasmania
Amy Dolling, Symposium Manager | All Occasions Management
Alicia Macolino, Symposium Coordinator | All Occasions Management
Amanda Wight, Sponsorship and Exhibition Manager | All Occasions Management

The Symposium has been supported by Gold sponsors Barrick Gold and OZ Minerals, Silver sponsors AngloGold Ashanti Ltd. and Alliance Resources, Ltd., and also by ALS Laboratory Group., INNOV - X SYSTEMS Australia Pty Ltd., Ivanhoe Australia, and Southern Uranium.

Keynote speakers’ abstracts are available at

Any questions related with the Symposium are to be addressed to Prof. Ian Plimer, Australia, University of Melbourne, Department of Geology, Parkville, Victoria 3052, Australia Tel (+61) 3-9344 6520; Fax (+61) 3-9344 7630 ian.plimer@adelaide.edu.au

Other activities

IAGOD members participated in a number of international conferences, including participation with invited presentations. At SEG 2010 in Keystone/Colorado, IAGOD has kept a booth, which attracted many participants, including 12 new IAGOD members.

A new IAGOD website has been developed at www.iagod.org
Association finances
IAGOD aims to keep membership dues (currently 10.- Euro for individual members) as low as possible to enable scientists from the developing and poor countries to join the Association. Other sources of income are from book sales, occasional newsletter advertising, meeting sponsorship or surplus from symposia. IAGOD transferred its accounts from the USA to Germany in early 2005. There is still a lot to do in order to properly organize membership dues collection, especially from individual members. Nevertheless, thanks to the Adelaide Quadrennial organizers, a superb Symposium surplus has been transferred to the IAGOD account. This enabled IAGOD to acquire for the 34th International Geological Congress in Brisbane an Early Bird Group package for 7 persons. A call for applications has been sent out in January 2012 (also on the website) along with the call for 5 travel grants established by IAGOD for its members. The 2010 and 2011 financial reports are available by request from IAGOD Treasurer, Dr. Thomas Seifert, Germany, TU Bergakademie Freiberg, Department of Economic Geology, Institute of Mineralogy Brennhausgasse 14, D-09596 Freiberg, Germany, Tel. (+49)3731393527, -2662; Fax (+49)3731392610, e-mail: thomas.seifert@mineral.tu-freiberg.de.
Report of the Russian IAGOD National Group

Report of the Russian National IAGOD Group for the year 2010

13th Quadrennial IAGOD Symposium

The most important event in the Russian group activity was the 13th Quadrennial IAGOD Symposium "Giant Ore Deposits Down-Under" held in Adelaide 6-9 April 2010. Forty seven specialists from 17 organizations participated in this Symposium. The most active occurred to be Institute of Geology and Mineralogy (Siberian Branch of Russian Academy of Sciences, Novosibirsk) with 11 participants, and Russian Geological Research Institute (VSEGEI, St-Petersburg) with 9 members.

Various topics have been covered with the contributions presented by Russian geologists: Au, U, Ag-Sb, Sb-Hg, Ni-Co-Bi-Ag-U, Cu-Co-As, Mo-W, Sn, PGE, Co, rare metal, and other deposits located from Kola peninsula to the Far East of Russia. Few contributions on isotope studies using SHRIMP-II facility and conventional isotope approaches have been made.

Scientific meetings organized by the members of the Russian NG

Two international conferences have been organized by Russian geologist in Novosibirsk under the IAGOD aegis. The 14th conference “Placers and weathered rock deposits: modern problems of research and development” in memory of academician Nikolay A. SHILO and prof. Natalia G. PATYK-KARA took place in the Institute of Geology and Mineralogy SB RAS the 2-10th of September.

The main goal of the conference was a discussion of up-to-date achievements and analysis of forefront directions of placers and weathered rock mineral deposits (PWR MD) development, exchange of ideas and experience of solution of research and practical tasks, enhancement of cooperation between industrial organizations and scientific centers and so on.

Two hundred fifteen contributions were made among which 210 presentations were reported by Russian scientists from 45 cities and geologists from CIS states. Specialists from Canada, Australia, India, and Germany also participated in this symposium.

The following topics have been covered:

1. Geology and forming conditions of placers and weathered rock mineral deposits (PWR MD) of diamonds, noble, non-ferrous and rare metals.
2. Prospecting technologies for primary deposits of diamonds, noble, non-ferrous and rare metals based on research of PWR MD.
3. New genetic and industrial types of PWR MD.
4. Micro- and nano-dimensional components in the processes of PWR MD formation.
5. Problems of research and development of technogeneous mineral deposits.
6. Complex geological-economic estimation, ecological problems and rational development of PWR MD.

Two field trips were organized to see over the following deposits: Salair gold-bearing weathered crusts, and Suzdal’ gold deposit (Kazakhstan).
More detailed information is available on the website of the conference: http://pwr.igm.nsc.ru

Slightly later, the 15-21st of September 2010, the 3rd Asian Current Research on Fluid Inclusions (ACROFI III) along with the 14th International conference on thermobarogeochonetry (TBG XIV) was held in Novosibirsk in the same institute (IGM SB RAS). Eight hundred scientists from 12 countries besides Russia (Australia, Austria, China, Germany, Hungary, India, Iran, Japan, Portugal, Slovakia, Switzerland, USA) participated in this joint conference. One hundred sixty seven abstracts have been published in the proceedings of the conference which are available on the website of the conference (http://acrofi.igm.nsc.ru).

The following thematic sessions have been outlined:

2. Subsurface fluid systems (sedimentary basins, hydrothermal karst, thermal waters, etc.) (conveners Yu.DUBLYANSKY)
3. Fluids and melts in diamond formation (conveners V.S.SHATSKY, H.KAGI)
4. Fluids and melts of the upper mantle and lower crust (conveners R.J.BODNAR, CS.SZABO)
5. IGCP540 seminar "Compositions of fluids of orogenic gold deposits from state-of-art fluid inclusion microanalysis, and application to mineral exploration" (conveners V.YU.PROKOFIEV, H.S.PANDALAI)
6. Hydrothermal and magmatic ore formation (conveners NI PEI, V.HURAI, V.A.SIMONOV)
7. Fluids in metamorphic and deformation processes (conveners A.V.KORSAKOV, M.K.PANIGRAHI)
8. Magmatic melts and fluids (conveners M.V.PORTNYAGIN, Z. LI, CS.SZABO, V.V.SHARYGIN)
9. Magmatic melts and fluids - Kamchatka session (conveners V.N.SHARAPOV, P.YU.PLECHOV)

Thus, presented contributions comprise ore forming processes from the Earth crust surface to the bottom of the lithosphere mantle, in the temperature range from supergene processes to high-temperature magma crystallization. It has been demonstrated that inclusion studies allow to constrain consistent models of fluid system behavior based on thermodynamics and molecular dynamics.

During the field trip to Salair (from the website of the Conference)

A post-conference field trip to the Veselyi Au-skarn deposit (Mountain Altai region) was organized for the participants.

In the framework of IAGOD seminars, a lecture of Prof. Michel CUNEY (Henri Poincare University, Nancy, France), entitled “Giant Uranium Deposits” was organized in the Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry (IGEM RAS) the 30th of
September. Michel CUNEY familiarized Russian geologists with main features of large-scale uranium deposits of various genetic types worldwide and answered numerous questions of different aspects of their genesis and formation conditions.

Another event related to IAGOD goals was an International conference “Modern Problems in Geology and Mineral Exploration” held in National Research Institute “Tomsk Polytechnic University”, 5-8 October 2010. Over 300 participants attended the conference. Seventy oral and 101 poster presentations have been made.

The following sessions have been organized:
1. Mineraeny of ore and oil-gas districts and provinces
2. Geologic-genetic models of mineral deposits
3. Non-conventional deposits of noble and rare metals
4. Mineraeny, geochemistry and technology of complex ore processing
5. State-of-the-art technologies of forecasting, search and prospecting of mineral resources.

Report of the Russian National IAGOD Group for the year 2011
Scientific meetings organized by the members of the Russian NG

Two international conferences have been organized in Siberia and Far East: “Large igneous provinces of Asia: mantle plumes and metallogeny” held in Irkutsk, and the 2nd International Geology & Mining Forum «Gold of the North Pacific Rim» held in Magadan. In addition to these events, an Academic Podium session has been organized by Russian NG in the framework of the 7th “Mining & Exploration Forum and Expo”.

International Symposium “Large igneous provinces of Asia: mantle plumes and metallogeny” took place 20-28 August in the Institute of the Earth’s Crust (Siberian branch of RAS) and covered the following topics: (1) An origin, age, and duration of the activity of large igneous provinces (LIPs) of Asia; (2) Modeling of processes responsible for the creation and development of mantle plumes, mantle-crust interaction and plume-related ore-magmatic systems; (3) Tectonic, petrological and geochemical aspects controlling the location and activity of local magmatic complexes within large igneous provinces of Asia; (4) Granite LIPs and their role in global geodynamics; (5) Role of LIPs in world-wide tectonic correlations; (6) Metallogenic specialization of LIPs and the role of mantle plumes in the formation of unique mineral deposits of Asia; (7) Possible links between the largest magmatic events, natural disasters and global climate changes.

Opening ceremony and thematic sessions covered the first three days. Forty oral presentations and 45 poster contributions have been made 21-23 August. A printed volume of abstracts (316 pages) and its CD version were issued on the results of the conference.

Five-day post-symposium field trip “LIPs of Southern Siberian craton and adjacent areas of the Central-Asian Orogenic belt” exposed mafic/felsic igneous complexes and their metallogenic
specialization in the regions of Irkutsk, Ulan-Ude and the Baikal lake (24-28 August). An informative guidebook helped the participants in understanding the key features of geology of these sites.

All the materials of the conference are available for downloading at http://www.lipa-asia.com/industry/pub_2011.html.

The 2nd International Geology & Mining Forum «Gold of the North Pacific Rim» took place 3-10 September in the Northeastern Interdisciplinary Scientific Research Institute (NEISRI) of Far East Branch of RAS. Two sections have been maintained: “Geology of Gold Deposits”, and “Geological prospecting and gold mining in Arctic and Subarctic”. The following topics were discussed within the 1st section: (1) Epithermal gold deposits; (2) Gold-quartz deposits; (3) Granitoid-related gold deposits; (4) Gold-copper-porphyry deposits, (5) Gold placers; (6) Gold metallogeny, genesis, and conditions of ore formation; (7) Gold deposits in carboniferous rock masses.

The Forum gathered 316 participants: 132 delegates, 49 Exhibit participants, and 135 guests, including 90 persons from different cities of Russia, Canada, the USA, Australia, New Zealand, Mongolia, Kazakhstan, and Uzbekistan.

On the results of the Conference, a Resolution has been developed focusing the most important tasks for geological industry and science. For Russian Academy of Sciences, the following goals were formulated: “to pay more attention to develop promising methods and methodologies for studying gold ore deposits, aiming in researching fundamental metallization processes and exposing prospecting and evaluating signs of various gold metallization types; to analyze the geological situation in marginal volcanic belts in the Russian part of the northern segment of the Pacific Rim in order to expose territories potentially containing highly sulfided deposits, which, according to the world practice, represent the most promising type of gold metallization of the eastern half of the Pacific ore belt; to offer more widely innovative technological patterns aiming in decreasing costs of both geological survey and prospecting and raising gold mining efficiency.”

Three post-conference field trips were organized: (1) Kupol, Dvoinoe Au-Ag epithermal deposits; (2) Julietta Au-Ag epithermal deposit; (3) Pavlik, Vetrenskoye, and Natalka orogenic deposits. 29 geologists participated in these trips. A GIS-project “Natural resources of the Magadan oblast” has been created at http://ags.febras.net/magobl_gp_ftrip/ to facilitate participants in understanding geology of the deposits.

All detailed information about the Forum is available at http://www.gold-pacific.ru/site/.

The 7th Mining & Exploration Forum occurred in Moscow 4-6 October 2011. The Forum focused mainly on exploration and mining industrial problems but a special Academic podium has been organized to outline an implementation of scientific geological studies in geological industry. Presentation of academic studies and research was organized under the guidance of Sergei Cherkasov, IAGOD Secretary General. Nine oral presentations covered various aspects of mineral resources study, new geophysical approaches to solving geological problems, genetic ones in particular, new GIS techniques and others. Abstract proceedings have been issued on the results of the Forum. The information about the Forum is available at http://www.minexrussia.com/2011/.
New members

One young researcher joined Russian NG in 2011:

**Yaroslav EMELIN**, trainee researcher, Laboratory of radiogeology and radiogeocology, IGEM RAS, Moscow. mason198925@gmail.com

Forthcoming events

The *6th International Siberian Early Career Geoscientists Conference* is going to be held in the Sobolev Institute of Geology and Mineralogy (IGM) in Novosibirsk 9-23 June, 2012. It is co-sponsored by IAGOD to enable especially participation of students and young scientists. Three main topics include:


Petroleum geology: (1) Reservoir modeling, geostatistics, (2) Petrophysics, (3) Oil and gas geochemistry, (4) Modern methods of hydrocarbon fuel prospects and exploration, (5) Economic estimation and petroleum exploration and development.


Information is available at [http://sibconf.igm.nsc.ru/](http://sibconf.igm.nsc.ru/).

A *Workshop of Uranium WG* will be organized in November-December 2012 in Moscow in the Institute of Ore Deposits, Petrography, Mineralogy and Geochemistry (IGEM) of Russian Academy of Sciences. The exact dates and agenda will be announced in the nearest future.

Members of the Russian NG will also participate in the *34th International Geological Congress* in Brisbane, Australia, 5-10 August 2012.


The Russian Far East IAGOD Group being a part of the National IAGOD Group of Russian Federation consists of 19 members.

Chashchin A.A. achashchin@mail.ru
Gonevchuk G.A. gonevchuk@fegi.ru; gonevchuk@hotmail.com
Gonevchuk V.G. gonevchuk@fegi.ru
Gvozdev V.I. gvozdev@fegi.ru
Ignatiev A.V. ignatiev@fegi.ru
Ivanov V.V. dom101@mail.ru
Kasatkin S.A. kasatkin04@hotmail.com
Khanchuk A.I. director@fegi.ru
Khomich V.G. khomich79@mail.ru
Korostelev P.G. kpr.pg@yandex.ru
Medvedev E.I. Cage21@mail.ru
Mitrokhin A.N. stakhor@yandex.ru
Nevolin P.L. nevpeter@yandex.ru
Orekhov A.A. Alezander_orekhov@yahoo.com
Pakhomova V.A. pakhomovainator@gmail.com; pakhomova@nm.ru
Plusnina L.P. makarovo38@mail.ru
Sakhno V.G. v_sakhno@mail.ru; sakhno@fegi.ru
Sayadyan G.R. gvozdev@fegi.ru
Semenjak B.I. SBI@yandex.ru

Leadership:
The chairman of the Russian Far East IAGOD Group is Academician A.I. Khanchuk.
The secretary of this Group is G.A.Gonevchuk.
Events:
The main events in 2010 activity of the Russian Far East IAGOD group:
The All-Russia seminar «Modern information technology for fundamental scientific researches in geosciences». The seminar took place on April, 8-11th, 2010, in Vladivostok, in the building of Far East Geological Institute of FEB RAS. Organizers the Russian Academy of Sciences: Branch of Sciences about the Earth; the Geophysical centre of the Russian Academy of Sciences and Far East Geological institute FEB of the Russian Academy of Sciences

More than 100 experts from 36 institutes of the RAS, from 16 cities of the Russian Federation have taken part in the Seminar. Within three days 54 oral reports (39 poster reports) were presented and results of scientific researches on a number of directions are discussed.

Conferences in 2010
1. Participation in XIV International Conference on Thermobarogeochemistry TBG XIV, September, 2010, Novosibirsk, Russia.
2. Participation with the plenary report in work of X All-China conference of the geologists investigating mineral deposits, Changchun (China), on September, 20-25th, 2010
Homich V. G - North Asian superplum and metallogeny of platinum group elements in the Southeast of Russia.

Participation in International projects:
1. International project “Mineral resources, metallogenesic and tectonics of NE Asia”. The project involves collaborating agencies from the U.S.A., Russian, Mongolian, China, Korea, Japan and other countries. The leader of this project is the Corresponding Member of RAS V.G. Sakhno. Academician A.I. Khanchuk took part as one of leaders.
2. International project “Investigation and metallogeny correlation of the major ore deposits of the neighboring territories of China and Russia (the Amur River middle course basin and Eastern Heilongjiang province)” Agreement on joint scientific research between Geological Survey Institute of Jilin University, China and Far East Geological Institute of the FEB RAS, Russia. The leaders of this project are the Dr. V.G. Khomich and Academician A.I. Khanchuk.
3. Members of the Russian Far East IAGOD Group Dr. V. G. Gonevchuk and Dr. V. I. Gvozdev are participants of the Russian-Indian project (the Russian Fund of Fundamental Investigation): Comparison of fluid circulation processes in granite intrusion-related environments: development of models for economic evaluation of granite-related hydrothermal processes (Granite, hydrothermal process, tin, tungsten). 2009-2011. Project Coordinators: Russian - Academician N.S. Bortnikov Director, Institute of Geology of Ore Deposits, Petrography, Mineralogy & Geochemistry (IGEM) Russian Academy of Sciences and Indian - Dr. M.S. Pandian Professor and Head Department of Earth Sciences, Pondicherry University. The major objectives of projects are as follows: Study areas are granitoid intrusions and related tin and tungsten deposits (Cretaceous, 65-145 Ma) in Sikhote-Alin Ridge in Russia and Late Proterozoic (700-900 Ma) granitoids associated with tungsten deposits in Rajasthan, India.
4. Many members of the group took part in the projects of the Russian Basic Research Foundation studying the ore deposits genesis.

Selected publications.


The Sikhote–Alin accretionary belt along the northwestern Pacific Plate hosts the most important tin province of Russia. Here, more than 500 ore deposits were formed between 105 and 55 Ma at transform and active subduction margins. Petrological models suggest an active role of the mantle in the mineralisation processes. The deposits can be divided into three groups according to their mineral content and associated magmatism. The first group, a cassiterite–quartz group is defined by tin-bearing greisens as well as quartz–cassiterite and quartz–cassiterite–feldspar veins and stockworks.
The second group is represented by the economically important cassiterite–silicate–sulfide deposits, which produce about 80% of Russian tin. The third group comprises tin deposits containing cassiterite and sulfides with the most complicated ore composition with abundant sulfides and sulfostannates accounting for 60–80% of the total ore mass. Deposits representing these three groups are described in this article.


Results of the author’s investigation of ore-magmatic systems of skarn scheelite-sulfide deposits of the Far East of Russia allowed him to characterize the magmatic and metasomatic rocks and ores of the type deposit: Lermontovskoe, Vostok-2 (Primorski Krai), and Agylki (Yakutiya). Descriptive and graphical local models of the deposit OMS have been worked out and the generalized model of the tungsten-bearing OMS is proposed.


Medkov M.A., Khanchuk A.I., Voit A.V., Plyusnina L.P., Molchanov V.P., Medvedev E.I. Quantum-chemical study of the interzction between Au(0), Pt(0), Ag(0) and fragments of graphenes modeling graphite struvture. // Doklady Earth Sciences, 2010, Vol. 434, Part 2, Pp. 1321-1324.


Contributed by the Secretary of the Russian Far East IAGOD Group G.A. Gonevchuk, Far East Geological Institute of the Far East Branch of Russian Academy of Sciences. 159, Prospect 100-letya, Vladivostok, 690022, e-mail: gonevchuk@hotmail.com or gonevchuk@fegi.ru
International conferences, organization and participation in 2010 (IAGOD members-organizers of the conference, participants with oral and poster presentation, members of editorial board are indicated in brackets):

Conference “Native Gold: typomorphism of mineral associations, formation of the deposits, applied investigations”. Moscow, Russia, 29-31 March 2010 (participant B.A. Dyachkov)


Conference “Greit Altay is the unique rare metal-gold-polymetallic province of Central Asia, Ust-Kamenogorsk, Kazakhstan, 14-17 September 2010 (organizers and members of editorial board B.A. Dyachkov, V.L Los, E.M. Sapargaliev, participants V.L Los, B.A. Dyachkov, N.P. Maiorova, S.F. Petrov)

Conference “Geological science and industrial development in Republic of Kazakhstan”. Almaty, Kazakhstan, 21-22 October 2010 (member of editorial board Kh.A. Bespaev, participants Kh.A. Bespaev, I.I. Usoltsev).

Selected publications


Rafailovich M.S. (2010). Non-traditional sources of gold in bowels of earth of Kazakhstan. – In: Kazakhstan Mining Magazine, №8, 9, 2-7, 2-5.


Planned activities for 2011

1. New publications (monographs, articles, methodical recommendations) in the sphere of the geology and genesis of ore deposits (national and international magazines).
2. Organization and participation in International Scientific Meetings and Conferences (Kazakhstan, Russia, China and others).
3. Cooperation with other IAGOD National Groups (Kyrgyz, Uzbekistan, Russia et al.) on the basis of International project “Geology, Geodynamics and Metallogeny of Suture Zones of Central Asia”.

Current list of members of the Kazakhstan IAGOD National Group (January 2011)

Chairman: Prof. Mikhail Rafailovich Scientific Institute of Natural Resources YUGGEO, Shevchenko Str., 162 zh, 050008, Almaty, Republic of Kazakhstan. Tel.: (7272) 684098; Fax: (7272) 686369; E-mail: rafail@nets.kz.

Prof. Bespaev Kh.A. (Almaty), Dr. Dolgopolov V.F. (Almaty), Prof. Dyachkov B.A. (Ust-Kamenogorsk), Dr. Fedorenko O.A. (Almaty), Dr. Glukhan I.V. (Karaganda), Prof. Los V.L. (Almaty), Dr. Maiorova N.P. (Ust-Kamenogorsk), Prof. Serykh V.I. (Karaganda), Dr. Usoltsev I.I. (Almaty), Dr. Yartseva L.A. (Almaty).

New IAGOD member:
Mr Petrov Sergey F., Chief geologist of LLP VOSTOKPROMGEO Corp., 14a-84, Krasin Str., Ust-Kamenogorsk, 070002, Kazakhstan. Phone: +7 7232 535217, Fax: +7 7232 765198, E-mail: spetrov_auag@inbox.ru.

Contributed by Mikhail Rafailovich, chairman, e-mail: rafail@nets.kz
Report of the Georgian national IAGOD group for 2010

Members of the Georgian National IAGOD Group

<table>
<thead>
<tr>
<th>Name</th>
<th>Institute</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buadze, Vaja</td>
<td>Caucasian Institute of Mineral Resources</td>
<td><a href="mailto:tcimr@internet.ge">tcimr@internet.ge</a></td>
</tr>
<tr>
<td>Gugushvili, Vladimir</td>
<td>Al. Jalenidze Institute of Geology</td>
<td><a href="mailto:gugushvili34@yahoo.com">gugushvili34@yahoo.com</a></td>
</tr>
<tr>
<td>Kekelia, Maren</td>
<td>Al. Jalenidze Institute of Geology</td>
<td><a href="mailto:kekelia33@yahoo.com">kekelia33@yahoo.com</a></td>
</tr>
<tr>
<td>Kekelia, Sergo</td>
<td>Al. Jalenidze Institute of Geology</td>
<td><a href="mailto:Sergokekelia@yahoo.com">Sergokekelia@yahoo.com</a></td>
</tr>
<tr>
<td>Migineishvili, Ramaz</td>
<td>Quartzite Ltd</td>
<td><a href="mailto:ram_migi@yahoo.com">ram_migi@yahoo.com</a></td>
</tr>
<tr>
<td>Tvalchrelidze, Alexander. G.</td>
<td>Caucasian Institute of Mineral Resources</td>
<td><a href="mailto:sandrotnval@caucasus.net">sandrotnval@caucasus.net</a></td>
</tr>
</tbody>
</table>

Participation in National and International Projects:

S.Kekelia and M.Kekelia are participants of the following two scientific projects:

- 2008-2010 - GNSF grant – “Assessment of gold potential of south-western part of Georgia (Adjara-Trialeti fold zone)”. # GNSF/ST07/5-202.
- 2011-2014 – “Geodynamic evolution of the Lesser Caucasus mountain belt: consequences on the natural resources, active tectonics and risks locations (Georgian part)”. IRG Project : South Caucasus GeoSciences.

V.Gugushvili and R.Migineishvili are participants of the SCOPES (Swiss national science foundation) project № IZ73ZO_128324 “Metallogeny of the lesser Caucasus” (2009-2012) (Switzerland-Georgia-Armenia and Azerbaijan).

Publications of the national group members in 2010


Contributed by Ramaz Migineishvili, chairman of the Georgian National IAGOD GROUP
Report of the Uzbekistan national IAGOD group for 2010

Members:
1. Rustam Ismailovich Koneev – professor, National University of Uzbekistan, rkoneev@yahoo.com;
2. Ilkhombay Bekchanovich Turamuratov – PhD, State Committee of the Republic of Uzbekistan on geology and mineral resources, turamuratov@mail.ru;
3. Abduvali Juraevich Juraev - PhD, State Committee of the Republic of Uzbekistan on geology and mineral resources, juraev07@mail.ru;
4. Asror Ikramovich Rustamov - State Committee of the Republic of Uzbekistan on geology and mineral resources;
5. Farid Karibovich Divaev – Institute on Geology and Geophysics of Academy of Sciences of the Republic of Uzbekistan;
6. Maksud Uzakovich Isokov – PhD, Institute of Mineral Resources, mineral@cu.uz;
7. Vladimir Den’евич Tsoy – doctor on geology, Institute of Mineral Resources, vtsoi@inbox.ru;
8. Rakhmatjon Akhundjanov – doctor on petrography, Institute on Geology and Geophysics of Academy of Sciences of the Republic of Uzbekistan;
9. Akhror Islamovich Usmanov – PhD, Institute on Geology and Geophysics of Academy of Sciences of the Republic of Uzbekistan;
10. Usman Mamarazikov - PhD, Institute on Geology and Geophysics of Academy of Sciences of the Republic of Uzbekistan, ohusm@mail.ru;
11. Rustam Abdukhatovich Khalmatov – master, National University of Uzbekistan, r.khalmatov@yahoo.com;
12. Yulia Sergeevna Mun – PhD student, National University of Uzbekistan, ju.moon@yahoo.com;
13. Alexander Vladimirovich Jukov – PhD student, National University of Uzbekistan, a.jukov@yahoo.com;

There are no changes from the previous list of members.

Chief of the group: Koneev Rustam Ismailovich. Doctor on geology-mineralogical sciences, professor of “Mineralogy, geochemistry and petrography” chair of the geology faculty of the National University of Uzbekistan named after Mirzo Ulugbek. He is a manager of the laboratory of “Micro- and nanomineralogy of natural and anthropogenic processes”, chairman of Mineralogical Society of Uzbekistan. The main direction of his research is geochemistry, mineralogy, nanomineralogy, patterns of formation of gold-bearing deposits, metallogeny of Uzbekistan. There are more than 190 published works. Contact information: phone: (+99871) 2463641, mobile: (+99890) 1870754, e-mail: rkoneev@yahoo.com, geology faculty, National University of Uzbekistan, VUZ-gorodok, Tashkent, 100174, Uzbekistan.
Events: In 2010 Rustam I.Koneev, Vladimir D.Tsoy, Abduvali J.Juraev took part in a All-Russian conference “Native gold: typomorphism of mineral associations, conditions of deposits’ formation, tasks of applied research” held in Moscow, Russia in IGEM of Russian Academy of Sciences on March, 29-31. On “Ore-magmatic systems of organogenic provinces” conference held in Tashkent from 5 to 7 of May the joint talk of Reimar Seltmann, Alla Dolgopolova, Rustam Koneev, Yulia Mun and Rustam Khalmatov was presented. Rustam Koneev, Yulia Mun, Rustam Khalmatov took correspondence part on 13th Quadrennial IAGOD Symposium 2010 held in Australia from 6 to 9 of April. The members of the group also took correspondence part in 20th General Meeting of the International Mineralogical Association held on 21-27 August in Budapest, Hungary.

From 14 to 23 of September the National IAGOD group jointly with MSU organized SEG Workshop in Tashkent.

Projects: The project of the geology faculty of National University of Uzbekistan with University of Tromso, Norway supported by SIU was continued and extended. Jointly with NHM of London research of giant deposits of Uzbekistan was continued. The research on platinoids’ distribution was carried out jointly with Geological Survey of Czech Republic.

Publications:
Rustam Koneev. Problems of nanomineralogy in the works of N.P.Petrovskaya” // All-Russian conference “Native gold: typomorphism of mineral associations, conditions of deposits’ formation, tasks of applied research”, p.266-268, Moscow (in Russian);

Events and projects for 2011: Continuation of the project with Norway, organization of the field trip for Norwegian students and professors in Uzbekistan, organization of guest lectures on some aspects of geology of Uzbek professors in Tromso University, Norway; 10th ICAM, 1-5 August, Trondheim, Norway.
Report of the Kyrgyz National IAGOD Group for 2009-2010

The main events in activity of Kyrgyz IAGOD group in 2009-2010 were:

**Participation in International projects:**

- “Mineragenic map of Tien Shan, 1:1 500 000 scale” (China and Kyrgyzstan 2006-2010).

**Selected publications**

*Scientific monographs:*


*Papers*


Pak N. Metasomatites and mineralization in scarns of Altyn-Djylga gold deposit (Kyrgyzstan)//Geology and interior protection, 2010, №1, Almaty, p.42-50.


**Current list of members of the Kyrgyzstan IAGOD National Group**

15 members are in IAGOD National Group of Kyrgyzstan: Aitmatova, Djamila (PRMI), Bakirov, Apas (IG, NAS), Bogdetsky, Valentin (MNR), Djenchuraeva Alexandra (MNR), Kabaev, Omorkul (MEMT), Maksumova, Rena (IG NAS), Malyukova, Nataly (KRSU), Mikolaichuk, Alexander (GP), Nikonorov, Valentin (MNR), Pak, Nikolay (IG NAS), Shamshyev, Orunbay (OTU), Savchenko, Gennady (SEKG), Usmanov, Iltyzar (KOC), Michael Ghes’ (IG, NAS).

**Missing members.** After a serious illness - Kim, Vlas (MEMT) and Stavinsky, Vitaly (KMA) died.

**Explanations:** PRMI - Physics and Rock Mechanics Inst., NAS; IG NAS – Institute of Geology National Academy of Sciences, Bishkek; MNR – Ministry of Natural Resources of Kyrgyz Republic; MEMT - Mining engineering and mining technologies Inst., Bishkek; KRSU – Kyrgyz-Russian Slavic University,
Bishkek; GP - Geodynamic polygon, Russian Acad. of Sc., Bishkek; KMA – Kyrgyz Mining Association, Bishkek; MC – Mining College, town Kyzil-Kiya; KGOC - Kumtor Operating Company, SE-KG – Stans Energy KG.

E-mail addresses of Kyrgyz Group IAGOD Members:
Aitmatova, Djamila djam_aitmatova@bk.ru ;
Bakirov, Apas geol@aknet.kg ;
Maksumova, Rena rmaks@istc.kg ;
Malyukova, Nataly mnm333@mail.ru ;
Mikolaichuk, Alexander mav@tiger.gdirc.ru ;
Nikonorov, Valentin nikonorov99@mail.ru ;
Pak, Nikolay pak@istc.kg ;
Savchenko, Gennady sek@ecat.kg ;
Usmanov Iltizar iltizar@yandex.ru ;

Contributed by Rosalia Djenchuraeva, Chairwoman of the by Kyrgyz IAGOD Group, Institute of Geology National Academy of Sciences, 30, Erkindik pr., 720000, Bishkek. T. 996 312 66 21 89; Fax. 996 312 68 00 47; E-mail: rosalia@list.kg
Report of the IAGOD Working Group on Tin and Tungsten Deposits (WGTT) for 2010

W. David Sinclair, Chairman WGTT, R. Seltmann, Vice-Chairman WGTT, T. Seifert, Secretary WGTT

Main results in 2010:
1) WGTT members contributed to the compilation of the digital database on global tin and tungsten deposits, with the support of the Geological Survey of Canada. The tin-tungsten database has been incorporated into the Geoscience Data Repository (GDR) of the Earth Sciences Sector, Geological Survey of Canada and is now accessible online (for more information, see the GDR page at http://gdr.nrcan.gc.ca/minres/data_e.php).
2) The tin-tungsten database has also been released as an open file map:
Copies of the map can be ordered from the Geological Survey of Canada Bookstore or downloaded in pdf format from the following website: http://geoscan.ess.nrcan.gc.ca/cgi-bin/starfinder?path=geoscan.fl&id=fastlink&pass=&search=R%3D287906&format=FLFULL
3) Thomas Seifert published the following book on lamprophyres:
The book is available to IAGOD members at the special price of €69,00 and may be ordered from TU Bergakademie Freiberg, Institute of Mineralogy Economic Geology & Petrology Brennhausgasse 14 D-09599 Freiberg Germany, or email:thomas.seifert@mineral.tu-freiberg.de
The table of contents of the book is as follows:

<table>
<thead>
<tr>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
</tr>
<tr>
<td>Geological Setting and Magmatic Study Areas and Selection Criteria</td>
</tr>
<tr>
<td>Mineral Deposits</td>
</tr>
<tr>
<td>W-Mo Mineralization</td>
</tr>
<tr>
<td>Sn-W-Mo-Bi-Cu-Li-F Greisen and Vein-Type</td>
</tr>
<tr>
<td>Mineralization stages</td>
</tr>
<tr>
<td>Age of mineralization</td>
</tr>
<tr>
<td>Silver-Base Metal Vein-Type Mineralization</td>
</tr>
<tr>
<td>Mineralization stages</td>
</tr>
<tr>
<td>Age of mineralization</td>
</tr>
<tr>
<td>Uranium Vein-Type Mineralization</td>
</tr>
<tr>
<td>Methods</td>
</tr>
<tr>
<td>Whole Rock and Mineral Geochemistry</td>
</tr>
<tr>
<td>Radiogenic Isotopes</td>
</tr>
<tr>
<td>Geochronology</td>
</tr>
<tr>
<td>K-Ar and <em>Ar-39/Ar-40</em> geochronology</td>
</tr>
<tr>
<td>Zircon dating</td>
</tr>
<tr>
<td>Field Geology and Petrographic Characteristic of Lamprophyres</td>
</tr>
<tr>
<td>Field Geology</td>
</tr>
<tr>
<td>Petrographic Types and Relatively Ages</td>
</tr>
<tr>
<td>Composition and Paragenesis of Magmatic</td>
</tr>
<tr>
<td>Nilic and Apaltite</td>
</tr>
<tr>
<td>Early magmatic triaxohedral micas</td>
</tr>
<tr>
<td>Early magmatic fluoro-apaltite</td>
</tr>
<tr>
<td>Geochemistry and Magmatic Evolution of CA-Lamprophyres and Mafic Volcanics in the Sub-Erzgebirge Basin</td>
</tr>
<tr>
<td>Whole Rock and Trace Element Characteristics</td>
</tr>
<tr>
<td>Isotope Geochemistry</td>
</tr>
<tr>
<td>Sr and Nd Isotopes</td>
</tr>
<tr>
<td>Pb isotopes</td>
</tr>
<tr>
<td><em>Ar</em>-39 and K-Ar Analyses</td>
</tr>
<tr>
<td>U-Pb Single Zircon Shrimp, Vapor-Transfer (VTR) and Pb-Pb Single Zircon Evaporation Analyses</td>
</tr>
<tr>
<td>Indications for the Magmatic-(Mantle-) Related Sources of Late-Variscan Mineralization in the Erzgebirge</td>
</tr>
<tr>
<td>Mineralogical and geochemical data</td>
</tr>
<tr>
<td>Sn-W-Mo-Bi-Cu-Li-F Mining ore</td>
</tr>
<tr>
<td>Silver-base metal mineralization</td>
</tr>
<tr>
<td>Uranium veintype mineralization</td>
</tr>
<tr>
<td>Pb Isotopes</td>
</tr>
<tr>
<td>Stable Isotopes and Fluid Inclusions</td>
</tr>
<tr>
<td>Sulfur Isotopes</td>
</tr>
<tr>
<td>Oxygen and carbon isotopes, and fluid inclusions</td>
</tr>
<tr>
<td>Structural Relationships to Magmatic Rocks</td>
</tr>
<tr>
<td>Relatively and Absolutely Age Relationships to Magmatic Rocks</td>
</tr>
<tr>
<td>W-Mo and Sn-W-Mo-Bi-Cu-Li-F Mineralization</td>
</tr>
<tr>
<td>Ag-base metal and U mineralization</td>
</tr>
<tr>
<td>Discussion and Conclusion</td>
</tr>
<tr>
<td>Appendix</td>
</tr>
</tbody>
</table>
IAGOD COMMISSION ON PLACER DEPOSITS (COPD)

Leadership:

Chairman - is not elected after sudden death academician Nikolay A. Shilo, on June 8, 2008. Vice-Chairman – Dr. Jan Krasson, Geoexplorers International Inc. 5701 East Avenue, Denver, Colorado 80222, USA, phone: 303 759 274; fax: 303 759 0553. e-mail: geoexpl@eazy.net

Secretary - Dr. Alexander V. Lalomov Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry of Russian Academy of Sciences (IGEM RAS). 119017 Moscow, Staromonetny per., 35, phone: 8-499-2308427, fax +7 495 9511587 e-mail: lalomov@mail.ru

Members:

Dr. Bochneva Anna, IGEM RAS. E-mail: bochneva@mail.ru
Dr. Korkoshko Anna, IGEM RAS.
Dr. Naumov V.A., Natural-Science Institute, Perm E-mail: naumov@psu.ru
Dr. Naumova O.B. , Perm State University, E-mail: naumov@psu.ru
Prof. Lunyov B.S. Perm State University, E-mail: poisk@psu.ru
Dr. Kalinin Yu.A., Institute of Geology SB RAS, Novosibirsk, Russia, , E-mail: kalinin@uiggm.nsc.ru
Dr. Mironov A.G. Geologic institute SB RAS, Ulan-Ude, Russia, , E-mail: popov@geo.buryatia.ru
Dr. Pechenkin I.G. All-Russian Scientific-Research Institute of Mineral Resources named after N.M. Fedorovsky, Moscow, Russia, E-mail: vims-pechenkin@mail.ru
Dr. Pechenkin V.G. “Urangeo”, Moscow, Russia
Dr. Malkin Boris V. Aerogeophysica Inc. Moscow, Russia. , E-mail: malkin@ aerogeophysica.com
Dr. Matveeva E.V. TsNIGRI, Moscow , E-mail: tsnigri@ tsnigri.ru
Dr. Rindziynskaya N. M. TsNIGRI, Moscow , E-mail: tsnigri@ tsnigri.ru
Prof. Savko A.D. Voronezh State University, Voronezh, Russia , E-mail: kigge@vsu.ru
Dr. Cherkashin V.I. Institute of Geology, Dagestan Science Centre Russian Academy of Science, E-mail: dangeo@iwt.ru
Dr. Xianrong Luo, Guilin University of Technology, 12 Jiangan Road, Guilin, P R China 541004 , E-mail: lxr811@yahoo.com.cn
Dr. Dill, Harald G. Federal Institute for Geosciences and Natural Resources, , E-mail: dill@bgr.de
Prof. Dolzenko Vitaly Bryansk State University , Bryansk, Russia , E-mail: tcopr@bgpi.ru
Dr. Alejandra Duk-Rodkin Geological Survey of Canada, Calgary, AB, Canada, , E-mail: Adukrod@NRCan.gc.ca
Dr. Baohong Hou CRC LEME, Primary Industries & Resources South Australia (PIRSA) , E-mail: hou.baohongt@sau gov.sa.gov.au
Dr. Adrian Fabris CRC LEME, Primary Industries & Resources South Australia (PIRSA) , E-mail: fabris.adrian@sau gov.sa.gov.au
Dr. Larry Frakes Geology & Geophysics, the University of Adelaide, SA 5001, Australia , E-mail: larry.frakes@adelaide.edu.au
Dr. Roslyn A. Chan CRC LEME/Geoscience Australia (GA), PO Box 378, Canberra, ACT 2601, Australia , E-mail: roslyn.chan@ga.gov.au
Dr. Jonathan D. A. Clarke CRC LEME/Geoscience Australia (GA), PO Box 378, Canberra, ACT 2601, Australia , E-mail: jon.clarke@ga.gov.au

William LeBarge Yukon Geological Survey, Whitehorse, Yukon, Canada, , E-mail: Bill.Lebarge@gov.yk.ca
Dr. Mikulski S. Z. Polish Geological Institute, Warsaw, Poland , E-mail: stanislaw.mikulski@pgi.gov.pl
Dr. Xiang Weidong Beijing Research Institute of Uranium Geology, Beijing, China , E-mail: xiangwd@public3.bta.net.cn

Maryam S.M.S Alshumairmi, Kuwait University, Kuwait, E-mail: selrabaa@yahoo.com
Babu S., Ph.D, Centre for Earth Science Studies, Thiruvananthapuram, India, E-mail: dssbabu@vsnl.com
Maniswamy Manimala, SouthernEra Diamonds Inc., Congo E-mail: m.muniswamy@southernera.com. 
Roman Chefranov IGEM RAS: E-mail: Roman_chefr@bk.ru

Events:
In 2010 COPD members had active participation in following actions:
3) 18-th International Sedimentological Congress, Mendoza, Argentina, 2010 (Technical Session 10-3 Placer deposits and aggregate resources, convener A.Lalomov). More that 1000 participants, pre-conference and post-conference excursions.
5) VIII Ural Lithological Conference “Actual problems of lithology”, October 19-21, 2010, Russia, Ekaterinburg, Institute of geology and geochemistry, Ural Branch of Russian Academy of Science and Ural State Mining University. More that 400 participants had about 100 oral and 200 poster presentations; 13 of them were dedicated to placer deposits. Two volumes of extended abstracts 700 pages total were published.
6) 13-th Scientific-Practical conference «Realization of oil-gas potential of West Siberia ». Khanty-Mansiisk, Russia, 16–19 November 2010 (200 participants from 4 countries).
8) Field researches of various types of placer deposits in collaboration of COPD members had place in Yukon Territory (Canada), East Siberia (Russia) and Republic of Congo (Zaire) (gold placers), South-East China (uranium), South Africa, Ural and Namibia (diamond placers), Germany (cassiterite+rutile placers), Australia, India, Poland, West Siberia and Caucasus (heavy mineral placers).

Projects:
Members of COPD took active participation in the next projects:
2. IGCP-464 “Mineral deposits of continental shelves” – co-operation in the field of placer mineral deposits of the shelves.
3. IGCP-526 Risks Resources and Record of the Past on the Continental Shelf. Francesco L. Chiocci (Italy), Lindsay Collins (Australia), Michel Michaelovitch de Mahiques (Brazil), Rene Hetherington (Canada).
4. The Palaeovalley Groundwater Project of Australia, Geoscience Australia (CRC LEME participants: Baohong Hou, Jonathon D. A. Clarke);
5. Eromanga Palaeochannels (value addition of placers, uranium and groundwater, Baohong Hou, CRC LEME, PIRSA).
6. “Research of paleohydraulic conditions of Permian deposits of Russian platform” in co-operation with International Association of sedimentologists (French Branch) and Faculty of mineral deposits of Kazan State University. Reconstruction of paleohydraulic conditions allows determination of perspective territories for placer mineral deposits.
Selected publications


Chefranov R. Substantial content and genetic conditions of ally of titan-zircon placer deposits of Trans-Ural placer deposit district. Transactions of Institute of higher education. Geology and Exploration Series (in print).


The most important events and projects planned for 2011


3. Eromanga Palaeochannel mapping of South Australia using updated maps, SRTM, nigh-time thermal imagery, and other satellite data as well as geophysical and drillhole data. Research Unit (EGRU) at James Cook University, in association with the Society of Economic Geologist (SEG).

Contributed by Dr. Alexander Lalomov
# International Uranium Group (IUG) Report for 2011 IAGOG Newsletter

**Leadership:**

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Institution</th>
<th>Internet</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairman</td>
<td>Professor Michil CUNEY</td>
<td>CNRS Research Director CREGU &amp; UMR G2R 7566 Geologie et Gestion des Ressources Minerales et Energetiques Universite Henre Poincare – NANCY I Equipe Genese et Gestion des Ressources Minerales Domaine Scientifique Victor Grignard – Entree 3B BP 70 239 – F 54 506 Vandoeuvre-les-Nancy, France</td>
<td><a href="http://www.g2r.uhp-nancy.fr">http://www.g2r.uhp-nancy.fr</a>; e-mail:<a href="mailto:Michel.Cuney@g2r.uhp-nancy.fr">Michel.Cuney@g2r.uhp-nancy.fr</a>; tel.:33(0)3 83 68 47 09; fax: 33(0)3 83 68 47 01</td>
<td></td>
</tr>
<tr>
<td>Co-Chairman</td>
<td>Dr. Yuri MIRONOV</td>
<td>Head of the Uranium Deposits Geology and Radioecology Department</td>
<td><a href="http://vsegei.com/uranium.html">http://vsegei.com/uranium.html</a>; e-mail: <a href="mailto:ogumr@vsegei.ru">ogumr@vsegei.ru</a>; tel.: +7(812)328 91 01; fax : +7 (812)328 91 18</td>
<td></td>
</tr>
<tr>
<td>Secretary</td>
<td>Dr. Elena AFANASYEVA</td>
<td>Leading Research Associate of the Uranium Deposits Geology and Radioecology Department</td>
<td><a href="http://vsegei.com/uranium.html">http://vsegei.com/uranium.html</a>; e-mail: <a href="mailto:elena_afanasievar@vsegei.ru">elena_afanasievar@vsegei.ru</a>; tel.: +7(812)328 91 00; fax : +7 (812)328 91 18</td>
<td></td>
</tr>
</tbody>
</table>

**Members (25):**

- Professor David LENTZ (University of NEW Brunswick, Canada) – dlentz@unb.ca;
- Professor Reimar SELTMANN (NYV, London, UK) – r.seltmann@nhm.ac.uk;
- Professor Vasily VELICHIN (IGEM RAS, Moscow, Russia) – vel@igem.ru;
- Professor Irvine Annesley (Jnr Resources Inc, Canada) – jnrirvine@sasktel.net;
- Dr. Alexei ALESHIN ((IGEM RAS, Moscow) – aleshin@igem.ru;
- Dr. Elena AFANASIEVA (VSEGEI, Saint-Petersburg, Russia) – Elena_Afanasieva@vsegei.ru;
- Dr. Alla DOLGOPOLOVA (NHM, London> UK) – allad@nhm.ac.uk;
- Dr. Vladimir DOLGOPOLOV (Almaty, Kazakhstan) – Vladimir.dolgopolov38@gmail.com;
- Dr. Elga ISHEVSKAYA (VIMS, Moscow, Russia) - aleshin@igem.ru;
- Dr. Tatiana Krylova (IGEM RAS, Moscow, Russia) – ktl@igem.ru;
- Dr. Victor MALKOVSKY (IGEM RAS, Moscow, Russia) – malk@igem.ru;
- Dr. Nicolay TARASOV (IGEM RAS, Moscow, Russia) – tnn@igem.ru;
Dr. Alexander REDKIN (GEOKhI RAS, Moscow, Russia) – redkin@iem.ac;
Dr. Robert BOWELL (SRK Consulting, Cardiff, UK) – rbowell@srk.co.uk;
Dr. Jarda Dostal (Saint Mary’s University, Halifax, Canada) – j.dostal@ns.sympatico.co;
Dr. David QUIRT (AREVA Resources, Canada) – David.Quirt@areva.ca;
Dr. Thomas SEIFERT (TUB, Freiberg, Germany) – Thomas.seifert@mineral.tu-freiberg.de;
Dr. Reg Olson (Canada) – rolsan@xplornet.com;
Dr. Leonid SEROV (VSEGEI, Saint-Petersburg, Russia) – serov.box@gmail.com;
Mr. Ilya DMITRIEV (VSEGEI, Saint-Petersburg, Russia) – EliasDmitriev@gmail.com;
Mr. Martin FAIRCLOUGH (PIRSA, Australia) – Martin.Fairclough@sa.gov.au;
Mr. Alexei KULYOV-NEGRUTSA (VSEGEI, Saint-Petersburg, Russia) – alnuc_negrutsa@geologist.com;

New members (2011)
1. Yaroslav EMELIN – trainee researcher, IGEM RAS, Moscow; e-mail: mason198925@gmail.com;
2. Komarov Victor – junior research associate, IGEM RAS, Moscow; e-mail: ras238@gmail.com;
3. Komarov Vladimir – junior research associate, IGEM RAS, Moscow; e-mail: wowin@gmail.com

SYMPOSIA AND CONFERENCES:
Coordination Scientific-Technical Council on Uranium held in ALL-RUSSIAN SCIENTIFIC-RESEARCH INSTITUTE OF MINERAL RESOURCES (VIMS) 16-17 March 2011. Contributions:
2. Aleshin A.P., Velichkin V.I., Komarov Vi.B. Recognition of complex geochemical fields of ore deposits for their prospecting on the basis of the Kullback information index.

International seminar «METALLOGENY AND A PROGNOSTIC OF THE URANIUM»:
Mironov Yu.B. Uranium metallogeny of the Alpine-Himalayan collision belt.

International conference «GEOLOGY AND METALLOGENY OF THE CENTRAL ASIA»:
Mironov Yu.B. Uranium metallogeny of the eastern part of the Central-Asian mobile belt.

International conference «STATUS AND DEVELOPMENT PROSPECTS OF THE WORKS ON CREATION OF THE GEOLOGICAL MAPS OF THE RUSSIAN FEDERATION»:

OTHER EVENTS:
International Russian -Chinese school-seminar “Geology and Prospecting Methods of Uranium Deposits” was held at VSEGEI in November 2011.

PUBLICATIONS in 2011:


Karpunin A.M., Mironov Yu.B., Buzovkin S.V. Cryolithogenez as a mechanism of uranium

Karpunin A.M., Mironov Yu.B., Buzovkin S.V. Epochs of uranium sedimentogenesis of the black shale type in the sedimentary basins of the Earth. National Geology.

Events and projects planned for 2012:

1) IUG SEMINAR (IGEM, November-December).
2) INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA). Technical Meeting on origin of sandstone type uranium deposits: A global perspective. 29 May - 1 June 2012, IAEA Headquarters, Vienna, Austria
ANNOUNCEMENTS

**Global Tectonics and Metallogeny Journal**

In the 21st Century we start facing a growing demand for metals along with shortage in new discoveries of mineral deposits. In some ways, the latter is caused by the exhaustion of easy-to-find mineral deposits located at (or close to) the Earth surface. Consequently, exploration and prospecting methods have to focus on targets that are deep-seated and buried under sedimentary cover.

The journal ‘Global Tectonics and Metallogeny’ was initially founded in order to accumulate publications on correlation studies between deep structures and location of ore objects known at the surface. In the past, such correlation represented just pure academic interest, nevertheless, contributing to theoretical metallogeny in the way of better understanding the metallogenic regularities at the global and regional scales. Nowadays, aside from the importance of ‘academic’ studies, growing interest to the deep-seated ore deposits forces geologists and geophysicists to look for more precise evaluation of the said correlation and targeting development of new criteria that can be used for evaluation of territories for mineral resources. This new approach differs from the others in a number of ways, such as:

- the approach requests to conduct multi-disciplinary studies including geological, geophysical, and geochemical research along with metallogenic analysis and 3D-modelling of the Earth interior;
- the target (users’) group for such studies is represented by researchers and professionals in the field of ore (economic) geology and tectonics, whereas the studies are being conducted by professionals in the above listed disciplines. This implies quite specific requirements for publications on the topic – high level of, for instance, geophysical studies should be communicated in a way, and in the terms allowing economic geologists to use the results in their evaluations;
- geo-informational (GIS) technologies become an absolutely necessary part of the studies as in many cases analysis of multi-disciplinary heterogeneous and poly-semantic data can not be realized without possibility to combine the data in different sets allowing users to consider different versions for metallogenic applications.

The above indicates the need of a modern approach and revival of ‘Global Tectonics and Metallogeny’, which should become an interface between professionals and researchers in different geological, geochemical, geophysical disciplines, with economic geologists at the core. Another point to be made on the multi-disciplinary basis of the journal is that the journal will look for new ideas in the field of tectonics and metallogeny, maybe, even alternative theories, as far as they are supported by consistent information.

Through the last few years, discussions on the subject have taken place in different scientific meetings, including the 12th and 13th Quadrennial IAGOD Symposiums (2006 in Moscow and 2010 in Adelaide, correspondingly), 32nd and 33rd International Geological Congresses (Florence 2004 and Oslo 2008, correspondingly). These meetings attracted many researchers from Australia, Canada, China, Egypt, Russia, Ukraine, USA, Uzbekistan, and other countries, demonstrating a good authors’ base for the journal.

**Global Tectonics and Metallogeny,** preliminary Authors instructions

Global Tectonics and Metallogeny (GTM) provides a forum for a systematic discussion of selected questions, focusing on factors controlling the genesis and distribution of ore deposits on different scales. Special attention is paid to relationships between metallogenesis and global tectonics.

**Global Tectonics and Metallogeny** serves as a means of communication among participants of the international discussion on all these topics and provides a link with a broad geological community which is invited to join the debate. The official publication language of the journal is English. Reports on activities of the CTOD working groups will also appear in this journal, invited review papers will be published on an irregular basis.

GTM is published by
E. Schweizerbart’sche Verlagsbuchhandlung (Nägele u. Obermiller)
Johannesstraße 3A, 70176 Stuttgart, Germany
Tel. +49-(0)711-351456-0, Fax:+49-(0)711-351456-99
mail@schweizerbart.de
www.schweizerbart.de

Submission of manuscripts:
Submission of a manuscript for publication in GTM is considered binding assurance that this work has not been and will not be published elsewhere in this form and length. With acceptance and publication of a paper, the exclusive copyright for every language and every country is transferred to the publisher. This includes further editions, reprints and microfilms, and storage and compilation on electronic media.

Manuscripts shall be submitted through the Schweizerbart Electronic Manuscript Management System. This platform is open online. Please visit www.schweizerbart.de and follow the links to GTM.

First submission (for review purposes only): Manuscripts must be submitted in English only. A pdf file of the manuscript containing the title page with authors information, English and German abstracts, text, reference list, abbreviation list, appendices (where necessary). Tables and figures together with captions are to be positioned at the end of the paper.

Final Version: The final manuscript must be produced by a word processing system, most preferably by Word for Windows. For up to date technical directions on formatting please contact the technical staff at mail@schweizerbart.de.

Consider the following points when preparing the word-processed text:

- Use preferably Times (or Times New Roman) for the text font and Symbol for the Greek and special characters, please embed fonts in the document file.
- Keep the lay-out as simple as possible, essentially identical to that of conventional manuscripts.
- Do not use a style sheet.
- Do not right-justify your text, flush it left only.
- Indent each paragraph.
- Leave only one space after each punctuation sign, including full stops.
- Never split words at the end of a line nor use the word-splitting option of the processor.
- Do not underline words to be printed in italic or bold-face type, but use the pertinent word-processor option (in text and reference list).
- A hardcopy of the final text should be sent together with the final version.

Peer review: Manuscripts will be reviewed in general by two referees.

Abstract: Each article must be preceded by an English Abstract. On a separate title page, please indicate the title of the paper, the names of all authors, their institutions and complete mailing and e-mail addresses, indicating the name of the corresponding author whose mail and e-mail address will be printed as a footnote on the first page of the article.

Abbreviations must be explained as they are used in the text. SI units are mandatory. If necessary, a list of symbols is to be added. Equations must be written with extreme care, especially with respect to indices.

Headings are to be typeset in regular letters (no capital letters, no bold face, underlining etc.).

Figures (graphs, illustrations, photographs, computer plots and line drawings) shall be provided with legends or captions that make the figures understandable without reference to the text. Each figure must be referenced explicitly and must be numbered in the order of first appearance in the text. Figure captions are required in English only. Figures and captions must be submitted on separate pages at the end of the manuscript. To obtain satisfactory print results a resolution of 300 dpi for colour figures, of 600 dpi for greyscale figures and of 1200 dpi for line drawings is required. File format should be tif or .eps with embedded fonts.

Tables should be restricted to an absolute minimum and should preferably be drawn in MS Excel. They should be supplied as separate files with their headings. Table captions are required in English only.

References: The list of references (in alphabetic order) should only contain sources made reference to in the text. In the text they should be set in regular letters, e.g. NAME(s) (year) or (NAME, year). In case of three or more authors the abbreviation “et al.” should be used in the text (but not in the list of references!).

Sample References:

For journal articles:

For books:

For chapters in a book:

Optional Open Access
Authors may have their articles made freely available online against charges (Optional Open Access). Please contact the publisher for details.
Page charges: Articles up to 10 printed pages are published free of charge, all additional printed pages carry a page charge of EUR 125.-- per page.

Colour figures: Please consider if colour does contribute significantly to the understanding of the figures. For each individual paper a surcharge of Euro 400.-- will be applicable for the first colour figure file, every additional colour figure file will be charged with additional Euro 50.--.

Proofreading: After acceptance of their papers, authors (the first-named author for multi-author-papers) will receive one set of page proofs prior to final printing. In order to speed publication, we request that the corrected page proofs are returned immediately to the publishers. In cases where the author is prevented from making corrections, he should appoint a representative to be responsible for this. If the page proofs are not returned in time, the paper will be published exactly as it appears in the uncorrected page proofs.

Neither formal alterations nor other changes should be included in the proofs. Authors will be charged for any alterations which they make to a proof unless they are corrections of printer’s errors.

In order to reduce the considerable costs of postage, manuscripts will not be returned without a special request of the author.

Offprints: For each article, 20 offprints or alternatively a pdf file for personal use will be supplied free of charge. Further offprints may be ordered at cost price.

Global Tectonics and Metallogeny is abbreviated with Global Tect. & Metall.

Please direct subscription orders and requests concerning subscriptions to
E. Schweizerbart’sche Verlagsbuchhandlung
(Nägele u. Obermiller)
Johannesstraße 3A, 70176 Stuttgart, Germany
Tel. +49-(0)711-351456-0, Fax:+49-(0)711-351456-99
mail@schweizerbart.de
www.schweizerbart.de
Harald G. Dill

Prof. Dr. habil. Harald G. Dill wurde 1949 in München geboren. Später studierte er Geologie, Wasserwirtschaft und Geowissenschaften an der Universität Würzburg. Er schloss sein Studium 1975 bei Prof. Dr. habil. Dill mit der Promotion über die „Mikrobiologische Oxidation von Fe(II) in aeroben Systemen“ ab. 1987 wurde er C. V. Raman-Preis der Naturwissenschaftlichen Forschungsgemeinschaft für die „Entdeckung der Phosphor-Akzeptoraktivität des Mikroorganismus Bacillus subtilis“.

Barthold Weber


Die Oberpfälzer Flusspatt-Anthologie


Die Oberpfälzer Flusspatt-Anthologie


Die Oberpfälzer Flusspatt-Anthologie


Die Oberpfälzer Flusspatt-Anthologie

SGA, the Geological Survey of Sweden and the Nordic mining industry invite you to the
12th SGA Biennial Meeting
Uppsala, Sweden
12–15 August 2013

Mineral deposit research for a high-tech world

Provisional session themes
- Methods and advances in mineral deposit studies.
- Ore forming processes and major deposit types.
- Iron oxide deposits.
- Fennoscandian mineral deposits.
- High-tech elements – deposits and processes.
- Industrial minerals.
- Society, mining and sustainability.
- Open session.

Field trips – preliminary list
- VMS deposits in the Skellefte district.
- IOCG and spatially related deposits in Fennoscandia.
- Orogenic gold deposits in Fennoscandia.
- Base metal deposits and iron ores of the Bergslagen province.
- Ni-PGE deposits in Finland and Russia.
- Classic rare-metal pegmatite deposits.
- Titanium-mineral deposits in southwest Fennoscandia.
- Metallogeny of the Oslo Rift and neighbouring shield areas.
- Metallogeny of the Repparfjord Window.
- Greenland.
- Alkaline deposits of the Kola peninsula.

Preliminary workshops and short courses
- 3D/4D modelling.
- Geochemical modelling of ore deposits.
- Orogenic gold – with emphasis on exploration.

Interested in offering short courses or workshops?
Contact the organizing committee:
www.akademikonferens.uu.se/sga2013
e-mail: sga2013@sga.se

Important dates
Second circular and call for papers
Registration opens
Early registration closes
Open submission of papers
Paper submission deadline
October 19th, 2012
October 19th, 2012
April 12th, 2013
December 14th, 2012
February 4th, 2013
14th Quadrennial IAGOD Symposium

Urumqi, China

August 19-22, 2014

Arxi Epithermal Gold Mine

For details, visit www.iagod.org
IGCP Project # 592 (2012-2015)  
“Continental construction in Central Asia”

IGCP#592: focuses, goals, concept, areas of study

The focus of IGCP#592 is continental crust construction in Central and East Asia and its desktop comparison with Western Pacific.

The main goal is broad-scale and multi-method investigation of continental construction in the Central Asian Orogenic Belt and its comparison with the recent examples from the Western Pacific.

The specific goals to be reached are as follows:

a) constrain a better understanding of Phanerozoic formation of the CAOB continental crust versus its dominantly Archean growth;

b) to which extent the CAOB continental crust was juvenile or recycled;

c) whether magmatic arcs or Gondwana-derived terranes or both were accreted to the Siberian, Kazakhstan, Tarim and North China cratons;

d) what was the balance between continental growth and tectonic erosion based on modern examples from the Western Pacific;

e) what social benefits (mineral deposits) and geohazards (seismicity and volcanism) are related to continental construction.

An important specific goal to be reached is which social benefits are related to the formation of huge orogenic belts, such as the Altaids, first of all, formation of minerals deposits. In the focus will be the numerous and voluminous metallic- and non-metallic mineral deposits of accretionary orogens. The beneficial objects to be studied are metal-rich magmatic and metamorphic complexes, ore-bearing strike-slip fault zones and sulfide-metal rich volcanic rocks.

The Project will be based on an interdisciplinary approach including U-Pb and Ar-Ar isotope geochronology, igneous and metamorphic petrology, isotope (Hf-Nd-Os-O) and major/trace element geochemistry, lithology, sedimentology, micropalaontology, tectonics, structural analysis, palaeomagnetism, geophysics, metallogeny and environmental geology.

The main concept of the Project is distinguishing main stages of continental construction: 1) crustal growth (juvenile crust) and 2) crustal formation (recycled crust); 3) continental growth (accretion minus tectonic erosion), 4) continental formation (collisional processes) (Fig. 1). They will be reconstructed in the following areas of interest: Altai-Sayan and Transbaikalia (Russia), Eastern and Central Kazakhstan, Kyrgyz Tienshan, Chinese Altai and Tienshan, Russian Far East.

The inferred processes, events and mechanisms of continental construction will be carefully compared in relative aspects (geochronology, geochemistry, structural styles, tectonic patterns, lithology, metallogeny, etc.) with the present-day or recent/Quaternary examples from the Western Pacific (north to south: Japan, Korea, East China, Indonesia, Tasmania, Australia).

Four geological transects crossing these areas will be studied: 1) Russian Altai-Chinese Altai-Mongolian Altai (Tr1); 2) Transbaikalia (Russia) - Northern Mongolia - Southern Mongolia - Inner Mongolia (Tr2); 3) Kazakhstan-Kyrgyz-Chinese Tienshan (Tr3); 4) Primorje (Russia) – Japan – Korea (Tr4) (Fig. 2).

All this would finally allow us to reconstruct a whole evolutionary pattern of this huge orogenic system.
IGCP#592 activities in 2012

IGCP#592 started with the launch meeting in St.-Petersburg, Russia, at the 1st International Workshop “Geodynamic evolution of the Central Asian Orogenic Belt”, which was hosted by the Institute of Precambrian Geology and Geochronology on May 24-27, 2012. The meeting was a successful forum for discussions on what is known about the CAOB. It stimulated international and interdisciplinary collaboration between leading experts and young scientists from Russia, China, Mongolia, Tajikistan and western countries, who reported new approaches and methods of studying formation and evolution of the CAOB. During the meeting a tentative plan of future IGCP#592 activities was discussed which at the moment includes five related meetings and field trips.

The next meeting, the 6th International Siberian Early Career Geoscientists Conference, was held in the Institute of Geology and Mineralogy SB RAS, Novosibirsk, Russia, on June 9-13, 2012. The participants from Russia, Kazakhstan, Uzbekistan, Iran and other countries discussed at the sessions devoted to geodynamics and magmatism the results of their studies and future collaborative research and field works related to continental constructions in Central Asia.
In addition, our project will be co-organiser of Session 9.7 “Mineral deposits: episodes, accumulation of metals and related geodynamic processes in China and adjacent regions” (IAGOD/IGCP-592) at the International Geological Congress in Brisbane, Australia, August, 2012; Conveners: Profs. Jingwen Mao, China (contact: jingwenmao@263.net), Franco Pirajno, Australia, and Reimar Seltmann, UK; http://www.34igc.org/scientific-themes-symposia.php#theme-9-mineral-deposits-and-ore-forming-processes.

The final IGCP#592 meeting of 2012 will be the 9th International Symposium on “Gondwana to Asia” at the University of Adelaide, Australia, November 18-20, 2012. For participation please contact Prof. Alan Collins via alan.collins@adelaide.edu.au

IGCP#592 activities in 2013-2015

The tentative plan for 2013-2015 includes meetings and their related field trips in five regions (see the table below).

<table>
<thead>
<tr>
<th>Meeting region</th>
<th>Field target</th>
<th>Tentative date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kazakhstan, Almaty</td>
<td>Saryozek-Usharal; Char belt</td>
<td>August-September 2013</td>
</tr>
<tr>
<td>Oskemen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indonesia, Java</td>
<td>Paleogene volcanic arc, Luk Ulo accretionary complex</td>
<td>February-March, 2014</td>
</tr>
<tr>
<td>China, Urumqi</td>
<td>Northern Chinese Tianshan and Altay</td>
<td>August-September 2014</td>
</tr>
<tr>
<td>Japan, Tokyo</td>
<td>Mino terrane, Inuyama area</td>
<td>March-April 2015</td>
</tr>
<tr>
<td>Russia, Irkutsk</td>
<td>East Sayan, ophiolites of Late Neoproterozoic</td>
<td>July-August 2015</td>
</tr>
</tbody>
</table>

* - ideas, comments or other proposals are greatly welcome

IGCP#592 website

More detailed information including text of the full project application to UNESCO, structure, leaders, publications, etc., can be found at the website (still under construction): https://sites.google.com/site/igcp592/

IGCP#592 Project Leaders

Dr. Inna Safonova, Institute of Geology and Mineralogy SB RAS, Koptyuga ave. 3, Novosibirsk, 630090, RUSSIA; inna@igm.nsc.ru; inna03-64@mail.ru.

Prof. Reimar Seltmann, Natural History Museum, CERCAMS (Centre for Russian and Central EurAsian Mineral Studies), Cromwell Road, London SW7 5BD, UNITED KINGDOM; R.Seltmann@nhm.ac.uk.

Prof. Min Sun, University of Hong Kong, Department of Earth Sciences, Pokfulam Road, Hong Kong, CHINA; minsun@hku.hk
XII International Platinum Symposium in Ekaterinburg

The Zavaritsky Institute of Geology and Geochemistry, Uralian Division of Russian Academy of Sciences is an organizer of the next XII International Platinum Symposium in Ekaterinburg (or Yekaterinburg), Urals, Russia in 2014 in the middle of August under the auspices of the IAGOD commission on the Ore Deposits in Mafic-Ultramafic Rocks (CODMUR) and the Department of Earth Sciences Russian Academy of Sciences (DES RAS).

We will be very grateful to know your opinion about the topics of sessions and arrangement of Symposium. We are planning to organize several pre-symposium and post-symposium excursions to famous Uralian, Russian and probably Kazakh ore deposits. In this context, we assure to organize all necessary permissions and for the participants to be able to take research and teaching samples. The main information and preliminary list of geological excursions will be prepared and loaded during the March-April on the future web-site of 12-IPS.

The contact person - Dr. Evgeny Pushkarev, e-mail:pushkarev@igg.uran.ru
IAGOD & CERCAMS Publications

ORDER FORM (2012)

Price of publications listed below includes shipping and packaging; upon request express delivery at additional charge

CERCAMS Newsletters (Posters, Proceedings & Workshop presentations in PPT or PDF)

☐ CERCAMS Alteration Systematics Posters. The CD holds a series of posters (designed for A0 size) in pdf format:
  VMS Deposits / Fe Oxide Deposits / Porphyry Cu I / Porphyry Cu II
☐ #1 (2002), CERCAMS-I (Launch workshop), NHM London: 30-31 May 2002
☐ #3 (2003), CERCAMS-III (Mongolia Exploration workshop), NHM London, 19-20 May 2003
☐ #4 (2004), CERCAMS-IV (Central Asia workshop of GMRAP), Almaty: 4-6 April 2004
☐ #8 (2006), CERCAMS-VIII (Chatkal-Kurama porphyry-epithermal deposits), Tashkent: 22-30 April 2006
☐ #10 (2007), CERCAMS-X (Geodynamics and Metallogeny of Siberia), London: 11 October 2007
☐ #11 (2008), CERCAMS-XI (Metallogeny of the Tethysides: Balkans to Turkey), London: 28 April 2008
☐ #12 (2008), CERCAMS-XII (Metallogeny of Central Asia: Kazakhstan to Xinjiang), London: 25-26 Nov 2008
☐ #13 (2009), CERCAMS-XIII (Copper in Central Eurasia and Russia/ GSA session), Portland: 21 Oct 2009
☐ #16 (2012), CERCAMS-XVI (Jackpot at 290 Ma - Selected MD in the CAOB), PDAC Toronto: 5 March 2012

Price per CD £50.- GBP Sterling (add 20% VAT where applicable) No. of Copies: _____ £_____GBP Sterling

Geological ATLAS Publications distributed by CERCAMS

Fedorenko & Miletenko (2002) Atlas of lithology-paleogeographical, structural, palinspastic and geoenvironmental maps of Central Eurasia (hardcopy); Digital: ArcView 3.1 @ £1600.- (+ 20% VAT where applicable)

☐ GBP £200.- corporate ☐ GBP £150.- academic No. of Copies: ____ £_____GBP Sterling


☒ GBP £100.- No. of Copies: ____ £_____GBP Sterling

********************************************************************************

Publications released by Russian-French Metallogenic Laboratory


☐ GBP £20.- (add 20% VAT where applicable) No. of Copies: ____ £_____GBP Sterling


☐ GBP £40.- No. of Copies: ____ £_____GBP Sterling


☐ GBP £50.- (add 20% VAT where applicable) No. of Copies: ____ £_____GBP Sterling


☐ GBP £50.- (add 20% VAT where applicable) No. of Copies: ____ £_____GBP Sterling

39
Licensed distribution of IAGOD publications & CERCAMS publications

**IAGOD Guidebook Series:**

- Au, Ag and Cu Deposits of Uzbekistan (Shayakubov et al., 1999); *CD-ROM only*
  
  Price £30  
  No. of Copies: ________

- Granitoids and Related Ore Deposits of the Urals (Seltmann et al., 2000)
  
  Price £30  
  No. of Copies: ________

- Paleozoic Geodynamics and Gold Deposits in the Kyrgyz Tien Shan (Seltmann & Jenchuraeva, 2001)
  
  Price £40  
  No. of Copies: ________

- Tectonic Evolution and Metallogeny of the Chinese Altay and Tianshan (Mao et al., 2003)
  
  Price £50  
  No. of Copies: ________

- Metallgeny of the Pacific Northwest, Russian Far East (Khanchuk et al., 2004)
  
  Price £50  
  No. of Copies: ________

- Gold-Silver-Telluride Deposits, South Apuseni Mts., Romania (Cook & Ciobanu, 2004)
  
  Price £50  
  No. of Copies: ________

- Geodynamics and Metallogeny of Mongolia (Seltmann et al., 2005)
  
  Price £50  
  No. of Copies: ________

- Magmatism and Metallogeny of the Altai (Seltmann et al., 2007)
  
  Price £50  
  No. of Copies: ________

- Geology, Radiological Age and Metallogeny of Greenstone Complexes in the Ukrainian Shield (Bobrov et al., 2008) & Mineral Investor Guidebook - Eastern Ukrainian Shield (Malyuk et al., 2008); set of two guidebooks (softbound) & Ukrainian Carpathians and Ukrainian Shield (Bobrov et al., 2006; digital guidebook on CD-ROM)
  
  Price £50  
  No. of Copies: ________

**IAGOD Monographs:**

- Seltmann et al. (1994) Metallogeny of Collisional Orogens *(CD-ROM)*
  
  Price £40  
  No. of Copies: ________

- Shatov et al. (1996) Granite-related Ore Deposits of Central Kazakhstan *(CD-ROM)*
  
  Price £50  
  No. of Copies: ________

- Kremenetsky et al. (2000) Ore-Bearing Granites of Russia and Adjacent Countries
  
  Price £40  
  No. of Copies: ________

  
  Price £40  
  No. of Copies: ________

  
  Price £50  
  No. of Copies: ________

  
  Price £30 (two CD-ROM)  
  No. of Copies: ________

  
  Price £70  
  No. of Copies: ________

**Maps** (digital map versions are on CD-Rom in PDF and/or Corel Draw v.9-X5):

- Nikonorov et al. (2000) Map of Mineral Resources of the Kyrgyz Republic, Scale 1 : 1 000 000 with Explanatory Notes and Deposits Catalogue (map as JPG file; 76p. notes and tables in MS Word)
  
  Price £40.- (hardcopy)  
  No. of Copies: ________

- Price £48.- (CD, incl. VAT 20%)  
  No. of Copies: ________

- Bakirov et al. (2001-2004) Metallogenic map of Kyrgyzstan, Scale 1 : 1 000 000
  
  Price £40.- (hardcopy)  
  No. of Copies: ________

- Price £48.- (CD, incl. VAT 20%)  
  No. of Copies: ________

- Seltmann et al. (2001-2009) Mineral Deposits map of Central Asia, Scale 1 : 1 500 000, and Explanatory Notes of AV/MapInfo/ArcGIS GIS package “Mineral Deposits of Central Asia”
  
  Price £100.- (hardcopy)  
  No. of Copies: ________

- Price £120.- (CD, incl. VAT 20%)  
  No. of Copies: ________

- Petrov et al. (2006) Mineral deposits map of the Urals, Scale 1 : 1 000 000, and Explanatory Notes
  
  Price £100.- (hardcopy)  
  No. of Copies: ________

- Price £120.- (CD, incl. VAT 20%)  
  No. of Copies: ________

Further information on prices, terms and licensing conditions available from CERCAMS cercams@nhm.ac.uk
PAYMENT FORM

Name (as appears on card; Visa, MasterCard accepted only): ________________________________
Tel.: __________________ Fax: __________________ Mobile: ____________________________
Card Number ___________________________ Issue # (3-digit security code): ______
Valid From: ___________________________ Expiry Date: _____________________________
Billing Address: __________________________________________________________________
_________________________________________________________________________________
Delivery Address (if different): ______________________________________________________
_________________________________________________________________________________
Country: __________________________________________________________________________

Please authorise The Natural History Museum to charge the gross amount of £ _____ GBP Sterling for the listed product/s.

Signed: ___________________________ Date: ___________________________

To receive the book, copies of this completed form (and in case of payment by cheque, also a copy of the bank draft) must be sent to:

Dr. R. Seltmann, CERCAMS, Dept. Mineralogy, Natural History Museum, Cromwell Road, London SW7 5BD, UK,
Phone: +44 207 942 5042, Fax: +44 207 942 6012, E-mail: rseltmann@nhm.ac.uk