IAGOD
e-NEWSLETTER
2009
THE INTERNATIONAL ASSOCIATION ON THE GENESIS OF ORE DEPOSITS
Compiled by Sergei Cherkasov, IAGOD SG
Vernadsky State Geological Museum of RAS
Moscow
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This newsletter is being sent out in digital form. Hard copy will be sent, by request, to some of our national groups.

General 2009 Report of the International Association on the Genesis of Ore Deposits (IAGOD)

Mission
The objective of the International Association on the Genesis of Ore Deposits (I.A.G.O.D.) is to promote international co-operation in the study of the genesis of ore deposits and to further the growth of knowledge in this field. These tasks are achieved in several ways. International symposia are organized by IAGOD, and a variety of meetings and symposia are held in conjunction with other organizations interested in the genesis of mineral deposits. The association continues to expand its international activities and membership, having members in about 70 countries world-wide.

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 500 economic geologists from more than 60 countries, both individual members and members in 10 National IAGOD Groups (China, Georgia, Kazakhstan, Kyrgyzstan, Mongolia, Russia, Tajikistan, Ukraine, Uzbekistan). Vietnam group (with about 20 new members) joins 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 in annual dues, with national groups paying a lump sum (from €50 to €500, depending on group size). Corporate members pay €100 annually.

Organization
Scientific activities of IAGOD are carried out within following Commissions and the 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
Commission on Thermodynamics of Ore Forming Fluids
Working Group on Skarn Deposits
Working Group on Tin & Tungsten Deposits (WGTT)
Working Group on Ores and Metamorphism (WGOM)
Working Group on Manganese
Working Group on Thermodynamics of Natural Ore-Forming Fluids
International Uranium Group of IAGOD
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:

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<thead>
<tr>
<th>Position</th>
<th>Person</th>
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</tr>
</thead>
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<tr>
<td>Past President</td>
<td>A. I. Khanchuk</td>
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<td>Regional Councillors</td>
<td></td>
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| Ex-officio Councillors          |                         |                                                                                                                                               |
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Chief accomplishments in 2009

Meetings and conferences

International Conference
“Large Igneous Province of Asia, Mantle Plumes and Metallogeny”
Novosibirsk, Russia, 6-9 August 2009

The second International Conference “Large Igneous Province of Asia, Mantle Plumes and Metallogeny” was held in Novosibirsk from 6-9 August, 2009 (http://lip-asia.igm.nsc.ru/). The Conference was organized by the Institute of Geology and Mineralogy SB RAS, sponsored by the International Association Geology of Ore Deposits (IAGOD) and by CERCAMS.

Prof. Franco Pirajno (Co-chairman of conference) and Prof. Nikolaiy Sobolev (editor-in-chief of “Russian Geology and Geophysics”)

The main focus of the Conference was on problems of genesis of large igneous provinces (LIPs). Issues on the origin of LIPs have attracted considerable international interest from many geoscientists specializing in magmatic geology, geodynamics, metallogeny of sedimentary and igneous rocks and paleoclimate. This is due to the fact that these large scale magmatic processes are responsible not only for the formation of large volumes of igneous rocks, but also for the development of world-class orthomagmatic Cu-Ni-PGE sulfide deposits. Furthermore there is good evidence that a number of continental porphyry Cu-Mo systems, Ni-Co-As, Au, and Sb-Hg hydrothermal vein deposits, are genetically linked with intraplate magmatism. LIPs, generally thought to be related to the activity of deep mantle plumes, constitute the main energy source and are a major factor of heat-mass transfer from the deep Earth’s levels to the subcontinental lithosphere and the lower crust. The Asia continent provides a prime example of such phenomena, because processes related to the manifestation of deep mantle plumes (or superplumes) of various ages are well represented by the ~250 Ma Siberian (P2-T1), ~260 Ma Emeishan (P2-T1) and ~280 Ma Tarim (P2-T1) LIPs. This time span corresponds to the period of crucial evolution of the lithosphere accompanied by extensive trap magmatism (LIP) on the Siberian, Tarim, and southern Chinese platforms, while post-collisional and intraplate granitoids with elevated rare metal abundances were emplaced together with mafic-ultramafic intrusions in the surrounding orogenic belts. Magmatism of this period was accompanied by the formation of two contrasting types of ore systems. One is related to mafic-ultramafic complexes and alkaline mafic intrusions (Cu-Ni-PGE; Mg-Fe, Ni-Co-As, Hg) and the other to granitoid complexes (porphyry Cu-Mo, Li-Ta-Nb, and Au-Hg). These systems are responsible for the formation of world-class and/or unique Cu-Ni-PGE (Noril’sk, Talmakh), Ni-Co-Bi-Ag-U (Khovu-Aksy in Tuva, Aktepe in Kyrgyzstan), porphyry Cu-Mo (Erdenet in Mongolia, Kalmakyr in Uzbekistan), Sb-Hg (Altai, Khabardar, Chonkoi, Kadamzhai in Kyrgyzstan), and Ag-Sb, Li-Ta-Nb deposits. There appears to be a regional metallogenic zoning in the distribution of the Permian and Triassic mineral deposits, relative to the centers of the most intense mafic-ultramafic and granitoid magmatic activity. Moreover, the problem of origin of large igneous provinces, their metallogeny and their link with mantle plumes is still a matter of considerable debate and is currently discussed by many professionals in all spheres of the Earth sciences. The International Conference “Large Igneous provinces of Asia: mantle plumes and metallogeny” aimed to discuss topical issues on magmatic and
metallogenic problems of Asia related to the manifestations of LIPs. One hundred and twenty four papers were submitted to the conference. Approximately 93 geologists crowded into the workshop, including 14 from China (4), Canada (2), Australia (2), UK (2), USA (2), Germany (1), and Japan (1). There were 37 oral and 35 poster presentations which were divided into 6 groups: (1) Nature, age boundaries, and the period of formation of large igneous provinces of Asia (LIP). (2) Modeling on the origin and development of mantle plumes, mantle-crust interaction and ore-magmatic systems. (3) Petrologic-geochemical aspects of formation of local magmatic complexes within the framework of large igneous provinces of Asia of various ages. (4) Metallogenic specialization of large igneous provinces (LIP), the role of mantle plumes in the formation of large and unique Cu-Ni-PGE, Ni-Co-As, porphyry Cu-Mo, Au-sulfide, Hg, Au-Hg and rare metal deposits of Asia. (5) Correlation of magmatic complexes and ore systems of Asia, the main age boundaries in the formation and specific features of the occurrence of large and unique deposits in the areas influenced by mantle plumes of various ages. (6) The relationship between natural disasters, global climatic changes, and large magmatic events.

To stimulate discussions on the topic, the chairman of the Organizing Committee Prof. N. L. Dobretsov (Russia) and Prof. F. Pirajno (Australia), supported by IAGOD (the main sponsor of the plenary session), invited speakers to give arguments “for” or "against" a plume origin and its effect on magmatism and metallogeny of Asia. The discussion turned out to be very “hot”. The first talks of the workshop by Prof. N. L. Dobretsov (Russia), Prof. F. Pirajno (Australia), and Prof. R. Ernst (Canada) gave evidence in support of plume origin, while Prof. J. Foulger (UK) and Dr A. Ivanov gave arguments against a plume origin. A key note address by Prof. D. Zhao (Japan) showed the results of seismic tomographic studies in support of the plume theory. Prof Zhao was able to construct a three-dimensional model of the internal structure of the Earth's on the basis of seismic tomographic data, which showed the presence of plume-like anomalies over the main hot spots regions (Hawaii, Iceland, Kerguelen, South Pacific, Africa). This model was supported by Prof N. Sharapov in "Dynamics of mantle crust asthenosphere ore-magma systems under Siberian platform and craton”. Significant attention was paid to the Siberian, Emeishan, and Tarim provinces of Permian-Triassic magmatism, generally ascribed to the activity of mantle plumes. The speakers F. Pirajno, Ch. Zhang, A. Borisenko presented new data on the Tarim large igneous province and specific features of its metallogeny. It is worthy of note that the Tarim large igneous province was first recognized by the Russian geologists and this fact was confirmed by R. Ernst and F. Pirajno. The results of study of the Permian-Triassic magmatism and metallogeny of Vietnam and its relation to the Emeishan plume were reported by A. Izokh and P. Balykin, with co-authors from Vietnam. (Tran Trong Hou, and Tran Tuan Anh). Presentations were given on the Siberian superplume, related magmatism and ore deposits by M. Kuzmin. M. Fiorentini, A. Arzamastsev, N. Goryachev, V. Kulikov, E. Spiridonov, V. Ryabov, A. Ivanov, I. Safonova.

A new aspect in the study of large igneous provinces was to reveal specific features of their metallogeny and to distinguish typical types of endogenic mineralization which are the indicators of the processes associated with mantle plumes. The talks by T. Seifert, R. Sellmann, M. Fiorentini, R. Genchuraeva, G. Pavlova, V. Khomich covered topics related to the links of metallogeny with mantle plumes. The most significant results of the conference were the data on correlation of magmatic processes and ore formation, which were based on evidence obtained from isotope-geochronological studies (U-Pb – SHRIMP, Ar-Ar, Re-Os) which brought the problem of the relationship of magmatism with mineralization on a new level and helped to constrain the age boundaries for the high-productive ore formations (A. Izokh, I. Safonova, A. Nozhkin, I. Tretjakova, V. Vrublevsky). The International field trip “Magmatism and metallogeny of the Tuva trough and surrounding orogenic belts” took place from 25 June to 5 August, 2009. More than 15 participants of the conference took part in this field trip. Moreover, sponsors of the
conference gave 10 undergraduate and post-graduate students from Novosibirsk and Kyzyl the opportunity to take part in this field trip. The participants visited such unique iron ore in Abakan, vein Ni-Co arsenide (Khovu-Aksy), and Cu-Co sulfoarsenide (Chergak, Uzun-Oi), polymetallic volcanogenic-hydrothermal (Kyzyl-Tashtyg), porphyry Cu-Mo (Kyzyk-Chadr), gold-ore in magnesian skarns (Tardan) deposits. During this field trip, discussions among students and professional participants touched not only the essential geologic aspects of this region but also highlighted many important issues of the Conference.

Proceedings of the Conference were published as a book and are also available on CD-ROM. If you wish to purchase the proceedings of the Conference (at £20.- including shipping), please contact <cercams@nhm.ac.uk>.

A special issue of the journal *Russian Geology and Geophysics* dedicated to this conference is planned to be published. The conference was a success also because it helped to convince some participants to join the IAGOD. Among them were six Russian geologists from Novosibirsk who have applied to become members of IAGOD.

Participants of field trip in Tuva

Submitted by *E. Naumov, F. Pirajno, A. Borisenko*

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Publications

The “chessboard” classification scheme of mineral deposits:
Mineralogy and geology from aluminum to zirconium

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Institute of Geosciences
Gem-Materials Research and Economic Geology
Johannes-Gutenberg-University Mainz
D-55099 Mainz, Becherweg 21, Germany

Abstract: Economic geology is a “mixtum compositum” of all geoscientific disciplines focused on one goal, finding new mineral deposits and enhancing their exploitation. The keystones of this “mixtum compositum” are geology and mineralogy whose studies are centered around the emplacement of the ore body and the development of its minerals and rocks. In the present study, mineralogy and geology act as x- and y-coordinates of a classification chart of mineral resources called the “chessboard” (or “spreadsheet”) classification scheme. Magmatic and sedimentary lithologies together with tectonic structures (1-D / pipes, 2-D/ veins) are plotted along the x-axis in the header of the spreadsheet diagram representing the columns in this chart diagram. 63 commodity groups, encompassing minerals and elements are plotted along the y-axis, forming the lines of the spreadsheet. These commodities are subjected to a tripartite subdivision into ore minerals, industrial minerals/ rocks and gemstones/ ornamental stones.

Further information on the various types of mineral deposits, as to the major ore and gangue minerals, the current models and the mode of formation or when and in which geodynamic setting these deposits mainly formed throughout the geological past may be obtained from the text by simply using the code of each deposit in the chart. This code can be created by combining the commodity (lines) shown by numbers plus lower caps with the host rocks or structure (columns) given by capital letters.

Each commodity has a small preface on the mineralogy and chemistry and ends up with an outlook into its final use and the supply situation of the raw material on a global basis, which may be updated by the user through a direct link to databases available on the internet. In this case the study has been linked to the commodity database of the US Geological Survey. The internal subdivision of each commodity section corresponds to the common host rock lithologies (magmatic, sedimentary, metamorphic) and structures. Cross sections and images illustrate the common ore types of each commodity. Ore takes priority over the mineral. The minerals and host rocks are listed by their chemical and mineralogical compositions, respectively, separated from the text but supplemented with cross-references to the columns and lines, where they prevalently occur.

A metallogenetic-geodynamic overview is given at the bottom of each column in the spreadsheet. It may be taken as the “sum” or the “mean” of a number of geodynamic models and ideas put forward by the various researchers for all the deposits pertaining to a certain clan of lithology or structure. This classical or conservative view of metallotects related to the common plate tectonic settings is supplemented by an approach taken for the first time for such a number of deposits, using the concepts of sequence stratigraphy. This paper, so as to say, is a “launch pad” for a new mindset in metallogenesis rather than the final result.

The relationship supergene-hypogene and syngenetic-epigenetic has been the topic of many studies for ages but to keep them as separate entities is often unworkable in practice, especially in so-called epithermal or near-surface/shallow deposits. Vein-type and stratiform ore bodies are generally handled also very differently. To get these different structural elements (space) and various mineralizing processes (time) together and to allow for a forward modeling in mineral exploration, architectural elements of

1 Harald G. Dill: E mail address: haralddill@web.de, website: www.hgeodill.de
sequence stratigraphy are adapted to mineral resources. Deposits are geological bodies which need accommodation space created by the environment of formation and the tectonic/geodynamic setting through time. They are controlled by horizontal to subhorizontal reference planes and/or vertical structures. Prerequisites for the deposits to evolve are thermal and/or mechanical gradients. Thermal energy is for most of the settings under consideration deeply rooted in the mantle. A perspective how this concept might work is given in the text by a pilot project on mineral deposit in Central Europe and in the spreadsheet classification scheme by providing a color-coded categorization into

- mineralization mainly related to planar architectural elements, e.g. sequence boundaries subaerial and unconformities
- mineralization mainly related to planar architectural elements, e.g. sequence boundaries submarine, transgressive surfaces and maximum flooding zones/surfaces
- mineralization mainly controlled by system tracts (lowstand system tracts transgressive system tracts, highstand system tracts)
- mineralization of subvolcanic or intermediate level to be correlated with the architectural elements of basin evolution
- mineralization of deep level to be correlated with the deep-seated structural elements

There are several squares on the chessboard left blank mainly for lack of information on sequence stratigraphy of mineral deposits. This method has not found many users yet in mineral exploration. This review is designed as an “interactive paper” open, for amendments in the electronic spreadsheet version and adjustable to the needs and wants of application, research and training in geosciences.

Look at the other IAGOD publications in the reports of national and working groups

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. The new treasurer has undertaken a major drive to collect back dues from members, with some degree of success. A brief summary of association finances is appended.

IAGOD last received a grant from IUGS in 2003. This enabled membership of the following national groups to be subsidized: IAGOD National Group of Georgia, IAGOD National Group of Kyrgyzstan, IAGOD National Group of Tajik Republic, IAGOD National Group of Uzbekistan, IAGOD National Group of Mongolia.
# FINANCIAL REPORT

January 2009 to December 2009

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OBITUARIES

Alexey Vladimirovich Pertsov

On October, 29th, 2009 after a serious illness Alexey Vladimirovich Pertsov – the known geologist, the talented scientist, director of Institute of Remote Sensing Methods for Geology (VNIIKAM), has died.

Alexey Vladimirovich was born on July, 6th 1948 in Berlin in a family of the military man.

In 1971 A.V.Pertsov has graduated geological faculty of the Leningrad state university on a specialization the geological survey and mineral resources searching. After the termination of university he two years has served in army, and then has gone to work in Laboratory of aeromethods (LAEM) where worked from 1973, having passed a way from the engineer to the director of Institute.

Under the direction of skilled photogeologists LAEM A.V. Pertsov has quickly seized methods of work with an aerophoto and space images and began to participate actively in working out of a technique of aerial photographs application for revealing of buried objects of a platform cover and basement as well as recommendations for searches of bauxites and copper-porphyrityc and iron ores. Results of work are published in the monography «Aeromethods of geological studying of platform areas» (1979). The materials received as a result of works on geology and ore-bearing prospects of the Turgay depression have laid down in the basis of his thesis which A.V.Pertsov has protected in 1982 and has received a scientific degree of the candidate of geologicfl-mineralogical sciences.

At the beginning 80-yaers Alexey Vladimirovich spent field works in Southern Urals and developed methods of aerial photographs and space images application for deep geological mapping, models litho-stratified complexes of the Zauralye structural forms, geological indicator methods for revealing of deep geological objects at metallogenic researches of young platforms.

In the mid-eighties he supervised over field works in the Central Kyzylkumy on the largest gold and gold-silver deposits, developing a technique stage-by-stage (at various levels of generalization) deciphering of RSD at metallogeny researches with consecutive complex interpretation of deciphering results, geological, geochemical, ore-formation data and magmatism ranges.

During the same period experts LAEM performed works on aerial survey over territory of Germany, Czechia, Slovakia, Bulgaria, in which Alexey Vladimirovich took part, and then supervised over these works.

At 1983 year A.V. Pertsov became deputy director, and in 1986 director of LAEM on which base the Institute of Remote Sensing Methods for Geology (VNIIKAM) has soon been created.

Successfully supervising over Institute, A.V. Pertsov continued scientific activity, being engaged in working out of methodology of the Earth remote sensing (RS) and definition of priority directions of remote sensing researches for natural resources study. He develops system information model of remote sensing process of natural resources, its structure and functioning is defined. In structure of process RS subsystems are allocated functional (correspond to stages of process RS) and target (answer classes of objects of research), basic features of the allocated subsystems are considered and the estimation of information possibilities and restrictions RS for the geological environment is spent, criteria of methods RS efficiency on target subsystems are defined.
Other direction with which Alexey Vladimirovich's scientific activity is connected, are metallogeny and tectonic-magmatic researches by usage aerial and space materials. The whole series of publications is devoted with working out of criteria for forecasting and creation of prospecting models of the largest ore objects on the basis of sensing remote materials, including space-structural criteria of gold giants localization, to working out of a technique of drawing up metallogenic maps on the basis of the combined computerized analysis of the digital space and geological-geophysical data.

From 1995 year VNIIKAM's experts under the supervising of A.V. Pertsov performed works on creation of an advancing remote basis for State geological map 1000/3 and State geological map 200/2 using materials of domestic and foreign space remote sensing systems, providing with a remote sensing basis geological mapping, prospecting and other works under tasks of Russian Ministry of Natural Resources (MNR Russia).

Within the limits of this direction the remote basis of territory of Russia of scale 1:5 000 000 on materials obtained by systems MSU-SK and MODIS was created. At the project Atlas «Space image of Russia»– the color composition maps by Landsat ETM + materials of scales 1:1 000 000 and 1:200 000 were created. The explanatory text and illustrative material containing the information on the most important geological features of territory and its display on images, data on the mineral resources and the unique natural objects located within each map sheets.

Results of works on creation and use of a remote sensing basis (RSB) of State geological map are published in prepared by VNIIKAM's employees monography «Space methods of geological researches» (2000), the directory «Methods of remote sounding of the Earth at the decision natural resources problems» (2004), which editor-in-chief is Alexey Vladimirovich. In two anniversary thematic releases of magazines – «Regional geology and metallogeny » № 21, 2004 and «National geology» № 3, 2004 scientific-methodical workings out of employees leading by A.V. Pertsov Institute are presented.

A.V.Pertsov published more than 60 printing works in Russia and abroad. He is the editor and the co-author of monographies, directories and methodical recommendations about use of remote sensing materials at geological and geoeccological mapping, is look-ahead-metallogenic researches, monitoring exogenous geological processes.

Thanks to A.V. Pertsov's efforts, VNIIKAM has kept scientific potential and successfully continues scientifically-methodical activity not only in Russia, but also abroad. Highly skilled experts of Institute participate in the international projects on verification of the space data received by modern remote sensing systems of Japan (JERS-1, ALOS, Canada and the USA (RADARSAT).

A.V. Pertsov was the chairman of working group of the International Association on Genesis of Ore Deposits (WG4 Remote Sensing Tectonics and Ore Prospecting IAGOD).

For successes in scientific and industrial activity Alexey Vladimirovich has awarded by branch medals and a sign «Honourable explorer of bowels».

Colleagues and friends present sincere condolences to Alexey Vladimirovich's family in connection with his premature demise.

Memory about Alexey Vladimirovich Pertsov, the kind, sympathetic and unusually delicate person, the brilliant scientist will remain in our hearts for ever!

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REPORTS OF IAGOD NATIONAL GROUPS

Report of the Russian IAGOD National Group

Scientific meetings organized by the members of the Russian NG

Two international conferences held in Novosibirsk (Russia) and Guilin (China) under the aegis of IAGOD occurred to be the main events of the Russian national group of IAGOD in 2009.

The conference “Large igneous provinces of Asia, mantle plumes and metallogeny” (“LIPs of Asia”) took place in the Institute of Geology and Mineralogy (Siberian Branch of RAS) from 6th to 9th August 2009 under the leadership of academician N.L. Dobretsov and Prof. of the University of Western Australia F. Pirajno. 125 contributions of scientists from Russia and abroad, devoted to the problems of magmatism, tectogenesis and related ore formation, have been presented at the conference. Proceedings of the conference were published as a book and as a CD-ROM. Major results of hot discussions have been summarized on the website of the conference http://lip-asia.igm.nsc.ru.

The symposium was focused on the following topics:
1. Nature, age, and duration of the formation of large igneous provinces (LIPs) of Asia;
2. Modeling of processes involved in the formation and development of mantle plumes, mantle-crust interaction and ore-magmatic systems;
3. Petrologic-geochemical aspects of formation of local magmatic complexes within LIPs of Asia;
4. Metallogenic specialization of largest igneous provinces and the role of mantle plumes in the formation of large and unique Cu-Ni-Pt, Ni-Co-As, porphyry Cu-Mo, Au-sulfide, Hg, Au-Hg and rare metal deposits of Asia;
5. Correlation of magmatic and ore complexes of Asia, their main historic boundaries of formation, and distribution controls of large and unique deposits by mantle plumes of different age;
6. Interaction of the largest magmatic events, natural disasters and global climate changes.

More than 15 participants of the conference took part in this field trip. Moreover, sponsors of the conference gave 10 undergraduate and post-graduate students from Novosibirsk and Kyzyl the opportunity to take part in this field trip. The participants visited such unique iron ore in Abakan, vein Ni-Co arsenide (Khovu-Aksy), and Cu-Co sulfioarsenide (Chergak, Uzun-Oi), polymetalic volcanogenic-hydrothermal (Kyzyl-Tashtyg), porphyry Cu-Mo (Kyzyl-Chadr), gold-ore in magnesian skarns (Tardan) deposits. During this field trip, discussions among students and professional participants touched not only the essential geologic aspects of this region but also highlighted many important issues of the conference.

An obvious success of the conference consisted in (but was not limited to) the fact that six geologists from the Institute of Geology and Mineralogy (SB RAS) decided to become IAGOD members. Two other IGM specialists joined IAGOD later in 2009.

The second conference “Fluvial palaeo-systems: evolution and mineral deposits” has been organized on the initiative of Russian geologists 14-19th October 2009 in the University of Technology (Guilin, China). It was held as the 5th International Symposium in the framework of the UNESCO Project IGCP514 conducted under the leadership of Dr. A.V. Lalomov from the Russian side (IGEM RAS, Moscow). About 40 specialists participated in the conference, 5 Russian geologists among them. The Proceedings of the conference were published by Guilin University of Technology.

The conference was focused on understanding of the dynamics of palaeochannel morphology, palaeochannel evolution and sedimentary ore accumulations related to palaeochannels. These include proximal gravel accumulations (placer gold, PGE, tin, rare metals, etc.), distal gravel and sand accumulations (diamonds, heavy minerals, fine gold, etc.), and hydrogenic (leached) deposits related to
complex geochemical barriers (uranium and attendant molybdenum, rhenium, selenium, yttrium, rare elements, etc).

Two post-conference field trips have been held: (1) Dachang tin deposit, October 16-17th; (2) Lijiang river geological tour, October 18th.

Two Russian specialists from the Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry (IGEM RAS) participated in the 8th Short Course in Economic Geology held in the Technical University of Bergakademie Freiberg (Germany), where Michel Cuney (Henri Poincaré University, Nancy, France) presented his brilliant course “Metallogeny and Exploration of Uranium Deposits” in December 7-12, 2009. Alexei Aleshin and Vasily Velichkin introduced the most important Russian uranium deposits in the contribution “Late Mesozoic uranium mineralization related to intraplate magmatism in eastern Siberia: the Streltsovsky and Elkon ore fields”.

Two IAGOD seminars from four scheduled have been organized in IGEM RAS (Moscow):
- Magmatogeneous model of the formation of Mo-U deposits of the Streltsovsky ore field (Transbaikal region, Russia): new mineralogical-geochemical, physicochemical and experimental data – Aleshin A.P., Velichkin V.I., Krylova T.L. (IGEM RAS), Red’kin A.F. (Institute of Experimental Mineralogy (IEM RAS), Cuney M. (University Henri Poincare (UHP), Nancy, France)
- New mineralogical-geochemical approaches to understanding of ore-forming capability of lowdensity hydrothermal fluids. Akinfiyev N.N., Distler V.V. (IGEM RAS).

Two others were postponed to the next year:
- Geophysical studies in context of genesis of ore deposits  
  On effectiveness of using regional geophysical data for prognosis of ore deposits. Cherkasov S.V., Sterligov B.V. Vernadsky State Geological Museum (SMG RAS), Moscow
  Capabilities of microseismic sounding for investigation of ore deposit structures. Gorbatikov A.V., Institute of the Earth’s Physics (IFZ RAS), Moscow
- Lithodynamic conditions of formation of heavy mineral placer deposits. Lalomov A.V. (IGEM RAS)

New members

This year was very fruitful for new recruits. Twenty six (!) geologists from Moscow, Novosibirsk and St-Petersburg wished to join the Russian NG. Brief personal data of the new members:
- Institute of Geology of Ore Deposits (IGEM RAS): 35 Staromonetny per, 119017 Moscow, Russia:
  GOLUBEV, Viatcheslav N., PhD, leading research associate, golub@igem.ru, golub238@gmail.com
  KOMAROV, Victor B., junior research associate, ras238@igem.ru
  KOMAROV, Vladimir B., trainee researcher, ras238@igem.ru
  CHUGAEV, Andrey V., PhD, senior research associate, chug@igem.ru
  NESTEROVA, Marina V., research associate, nestmv@igem.ru
  DOINIKOVA, Olga A., Dr., leading research associate, doa@igem.ru
  SAZONOV, Alexander I., trainee researcher, partizanrpe@narod.ru
  BOCHNEVA, Anna A., PhD., senior research associate, bochneva@mail.ru
  DYMKOV, Yury M., retiree, collaborate with IGEM, alexei.aleshin@gmail.com
- Russian State Geological-Prospecting University (RGGRU), 23, Miklukho-Maklaya st., 117997, Moscow, Russia:
  VERCHEBA, Alexander A., Dr., Dean of the Geological Prospecting Faculty, aa_ver@mail.ru
  IGNATOV, Petr A., Dr., Prof. of the Department of Geology of Mineral Deposits, pignatov@gmail.com
  BAYUSHKIN, Ilya M., Dr., associate prof. of the Department of Geology of Mineral Deposits, geo-mpi@rambler.ru
  ZHDANOV, Alexey V., PhD, lecturer, geo-mpi@rambler.ru
  PSHENITSYN, Alexey L., deputy dean, northzzz@mail.ru
- Institute of Geology and Mineralogy (Siberian Branch of RAS), 3, prosp. Acad. Koptyug, 630090, Novosibirsk, Russia (fax: +7 (383) 333-27-92):
  NEVOLKO, Petr A., PhD., junior research associate, nevolko@uiggm.nsc.ru
  TRETYAKOVA, Irina G., junior research associate, itret@igm.nsc.ru
Our losses

With profound regret we notify that four members of the Russian NG passed away in 2009:

OBOLENSKY, Alexander A., Dr., Professor from the Institute of Geology and Mineralogy (IGM SB RAS), Novosibirsk
PERTSOV Alexey V., Director of All-Russian Institute for Remote Sensing Methods (NIKAM), St.-Petersburg
VOLKOV, Andrey B., Chief geologist from the Barrick Gold Corporation, Moscow
ZARAISKY, Georgy P., Dr., Professor from the Institute of Experimental Mineralogy (IEM RAS), Chernogolovka

Census of the Russian NG

General census of the Russian NG has been undertaken to update the number of the Group and contacts of its members. As the Group began to recruit its participants far before the time when email became a usual way of communication, this verification occurred to be imminent.

The census revealed that up to present, 18 members passed away. Beside our colleagues who left us this year, 15 geologists have died in the past:

GENKIN, Alexander D. (IGEM, Moscow)
IVANOVA, Galina F. (GEOKhI Vernadsky, Moscow)
KHODANOVICH, Petr Yu. (Geological Institute, GIN SB RAS, Ulan-Ude)
KOKORIN, Anatoly M. (Far Eastern Geological Institute (FEGI RAS, Vladivostok)
MELNIKOV, Fedor P. (Moscow State University)
PATYK-KARA Natalya G. (IGEM, Moscow)
POLTAVETS Yury A. (Institute of Geology and Geophysics, Ekaterinburg)
REIF Felix G. (Geological Institute, GIN SB RAS, Ulan-Ude)
REKHARSKY Vladimir I. (IGEM, Moscow)
RODIONOV, Sergey M., PhD., geologist from the Institute of Tectonics and Geophysics (ITIG, Far Eastern Branch RAS), Khabarovsk
RUSINOV, Vladimir L. (IGEM, Moscow)
SHILO, Nickolay A. (IGEM, Moscow)
SHMAKIN, Boris M. (Institute of Geochemistry, SB RAS, Irkutsk)
TERENTIEV, Vladimir M. (VSEGEI, St-Petersburg)
TOMSON, Ilmar N. (IGEM, Moscow)

Twelve members of the Russian NG have retired or changed their activity:

ALMUKHAMEDOV Alexander I. (Geological Institute, GIN SB RAS, Ulan-Ude)
BELYATSKY Boris V. (Institute of Precambrian Geology and Geochronology, IPGG RAS, St-Petersburg)
BOGDANOV, Yury V. (Institute of Precambrian Geology and Geochronology, IPGG RAS, St-Petersburg)
The census allowed to reveal that by the end of the year 2009, total number of the Russian NG which comprised 177 members, has reduced by 30 member because of our losses and retirement. However, we engaged 26 new members, so the up-to-date number of the Russian NG amounts to 173 participants.

Other activities

A new webpage of the Russian NG has been created on the website of IGEM RAS: www.igem.ru/iagod_ru. This page contains general information about IAGOD, its Council, former and forthcoming events, IAGOD seminars, publications and so on. It will facilitate information distribution among Russian IAGOD members. It is planned to create a forum for discussion on the most disputable genetic problems of ore deposits, as a feedback on seminars posted on the webpage and just live communication among IAGOD members.

On the initiative of Russian NG, elaboration of the Sample Exchange Information System (SEIS) has been started. It is designated as a universal international system operating not only for IAGOD purposes but for needs of the entire geologic community. The structure of the System has been arranged and now the final details are discussing. We hope to run the first trial version of SEIS in the next year.

Forthcoming events in 2010

Two main events initiated by the Russian IAGOD members are scheduled for the year 2010: (1) XIV International symposium on Placer and Weathered Rock Deposits (PWR-2010) in Novosibirsk (September 2-10th), and (2) joint ACROFI III and TBG XIV conference also in Novosibirsk (September 15-20th).

The PWR-2010 symposium «Placers and Weathered Rock Deposits: Modern Problems of Research and Development» will be held under the aegis of IAGOD and the Ministry of Natural Resources and Ecology of the Russian Federation and will be dedicated to the the memory of the founder and leader of the placer geology science academician RAS Nikolay A. Shilo (1913-2008) and and his associate and follower prof. Natalia G. Patyk-Kara (1938-2008). All necessary information is placed on the website of the conference http://pwr.igm.nsc.ru/.

The joint ACROFI-III & TBG-XIV conference will cover the following main topics:
1. New developments and methodology for the study of properties and compositions of fluid and melt inclusions in minerals. Experiments in fluid inclusion research
2. Thermodynamic modeling of the fluid systems
3. Fluids and melts of the upper mantle and formation of diamond
4. Fluids in metamorphic and deformation processes
5. Magmatic melts and fluids
6. Hydrothermal and magmatic ore formation
6a. IGCP540 seminar "Compositions of fluids of orogenic gold deposits from state-of-art fluid inclusion microanalysis, and application to mineral exploration"
7. Subsurface fluid systems (sedimentary basins, hydrothermal karst, thermal waters etc.). All related information is posted on the website of the conference http://acrofi.igm.nsc.ru/.
REPORT OF THE RUSSIAN FAR EAST IAGOD GROUP FOR 2009

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

Membership

Chashchin A.A. achashchin@mail.ru
Gonevchuk G.A. gonevchuk@fegi.ru, gonevchuk@hotmail.com
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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 Dr. G.A. Gonevchuk.

Events:

The main events in 2009 activity of the Russian Far East IAGOD group: In September 2009, Far East Geological Institute of the FEB RAS has celebrated its fifties anniversary. The grand meeting took place in the Institute. The book published to this important event contains in its first part a short description of results of 50-year geological researches in which researches on geology and metallogeny of the Pacific belt are of important contribution to science. The unique factual material on regularity of the ore deposits distribution and conditions of their formation in various structures of the continent-ocean transition zone was collected for that time period. The second part of the book represented biographic data on the Institute’s staff.

Conference in 2009:

Symposium “Geology and magmatism of sliding borders of lithospheric plates: the new data and prospects”, Chairman Academician A.I. Khanchuk; Scientific secretary Dr. Martynov Y.A. The symposium was held in Vladivostok, 16 - 20 September, 2009. The symposium attracted attention of 32 scientists and 30 oral reports were made.

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. Many members of the group took part in the projects of the Russian Fundamental Studies Foundation studying the ore deposits genesis.

Selected publications.


The most important events and projects planned for 2010-2011.

The All-Russia seminar « Modern information technology for fundamental scientific researches in geosciences». The seminar will take place on April, 8-9th, 2010, in Vladivostok, in the building of Far East Geological Institute of FEB RAS.

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

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Report of the Kazakhstan National IAGOD Group for 2009

Conference, Workshop, Field Excursion participation in 2009 (IAGOD members participating with oral and poster presentation are indicated in brackets):

4. International Geological Excursion “Large Cu, Pb and Au Ore Deposits and Their Mining Tecnologies (the Territory of China contiguous to Kazakhstan and Russia)”. Urumqi, 14-25 September 2009 (B.A. Dyachkov).

Organization of the international workshops

Alla Dolgopolova took part in organization workshop under Center for Russian and Central Eurasian Mineral Studies, Natural History Museum, London:
CERCAMS-13 workshop "Copper deposits of Asia" in conjunction with GSA copper session in Portland, USA, 18-21 October 2009 (50 participants).

Scientific monographs

The new geodynamic and formational systematization of Kazakhstan gold deposits is adduced. The chronological evolution of gold deposits, main metallogenic epochs and productive tectonic structures are characterized. The important ore-controlling role of sutures and shear zones is underlined. The exploration models of large deposits Akbakay, Vasilkovskoye, Bakyrychik, Nurkazgan and others are described. The new commercial types of gold mineralization are considered (Raigorodok, Sekisovskoye, Aschiktas, Balkymbaikskoye). The industrial perspectives of complex scarn, porphyry, massive sulphide deposits are analyzed (Khantay, Nurkazgan, Ridder-Sokolnoye and other). The Kazakhstani and foreign large deposits are compared. The possibilities of automated expert system “Genesis” for quantitative evaluation of gold fields are discussed. The major regions for concentration of scientific and applied investigations are determined. The monograph is of interest for specialists in forecasting and prospecting of gold deposits and for teachers and students from geological departments.


Selected publications


Planned activities for 2010-2011

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 (February 2010)
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), Dr. Dolgopolova A.V. (London), 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).

Contributed by Mikhail Rafailovich, chairman, e-mail: rafail@nets.kz

Report of the Mongolian national IAGOD group for 2009

Membership: IAGOD NATIONAL GROUP OF MONGOLIA: 35

Chairwoman: Prof. Ochir Gerel (Dept. of Geology, Mongolian University of Science & Technology. P.O. 46, Box 520, Ulaanbaatar 210646, Mongolia. Tel: 976-11-326425; Fax: 976-11-312291; E-mail; gerel@must.edu.mn).
S. Dandar (Secretary, Mongolian University of Science & Technology), J. Lkhamshurev (Dept. of Geology, Mongolian University of Science & Technology), G. Dejidmaa (Geological Information Center), N. Amitan (Togs Buiant Ltd.), D. Bat-Ulzii (Dept. of Geology, Mongolian University of Science & Technology), J. Ganbold (Mongolian. Academy of Science, Institute of Geology and Mineral Resources), B. Delgertsoigt (Geological Information Center), B. Munkhtsengel (Dept. of Geology, Mongolian University of Science & Technology), Sunjmdma (Mineral Resource Authority of Mongolia), M. Todabileg (Ministry of Minerals & Energy), D. Sharkhuukhen (M& Dimond Ltd.), D. Altanhuyag (Dept. of Mineral Exploration, Mongolian University of Science & Technology), A. Tsend-Ayush, A. Gotovsuren (Anglogold Ltd.), O. Chuluun ( Mineral Resource Authority of Mongolia), D. Batbold (Mineral Resource Authority of Mongolia), D. Bold-Erdene (Minelinfo Ltd.), H. Gantumur (Mineral Resource Authority of Mongolia), Sambuu Oyungerel (Geoscience Center, Mongolian University of Science & Technology), G. Ukhnaa (Dept. of Mineral Exploration, Mongolian University of Science & Technology), H. Enkhuushin (Erdene Ltd), S. Oyungerel (Dept. of Geology, National University of Mongolia), D. Dorjgotov (Dept. of Geology, National University of Mongolia), L. Jargal (Dept. of Geology, National University of Mongolia), Yo. Majissuren (Mineralogical Museum, Mongolian University of Science & Technology), S. Myamarsuren (D. Mongolian University of Science & Technology), S. Jargalan (Dept. of Mineral Exploration, Mongolian University of Science & Technology), Batseren Soyomlmaa (Geoscience Center, Mongolian University of Science & Technology), Sanjsuren Oyunbat (Geo-Info Co. Ltd., Mongolia), Namsraitjav Baatar (Dept.of Mineral Exploration,
Mongolian University of Science & Technology), Naidansuren Tungalag, Institute of Geology & Mineral Resources, Mongolian Academy of Sciences, Renchin Oyunchimeg, geologist, Ivanhoe Mines Mongolia, S. Ariunbileg, Institute of Geology & Mineral Resources, Mongolian Academy of Sciences, B. Javkhlan, Shimane University, Japan, U. Burenjargal, Tohoku University, Japan; R. Tsetseg, Dept. of Geology, MUST, D. Demberesuren, Dept. of Geology, MUST.

New members: 5.
B. Amarjargal, Dept. of Geology, MUST, E-mail: aagii_8515@yahoo.com,
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Serjlkhumbe Amar-Amgalan, Dept. of Geology, MUST, E-mail: amraa_ci@yahoo.com
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B. Batkhyshig, Dept. of Mineral Exploration, MUST, E-mail: bkhishig@must.edu.mn

Leadership: Ochir Gerel, Dept. of Geology, Mongolian University of Science & Technology, P.O. 46, Box 520, Tel: (976) 11-326425; mobile: (9760 99121226, Fax: 976-11-312291. E-mail: gerel@must.edu.mn


2. Geological Society of Mongolia, Mongolian National Mining Association, National IAGOD Group, MinInfo Consulting LLC, Monrud LLC, sponsored by BHP Billiton, Erdene Mongol Ltd., and other mining companies active in Mongolia the International Mining Investors’ Forum “DISCOVER MONGOLIA 2009” hold in Ulaanbaatar on November 6-8, 2009. The Forum comprised of four major events: Mining Conference, Exhibition, the “Government Hour” series of meetings, and excursion, and special session “New discovery of mineral deposits”, initiated by Altan Rio ltd. hold.

3. Round-up 2009 organized by Mongolian Society of Economic Geologists together with Mongolian Geological Society, National IAGOD Group, and exploration companies. New discovery, mineral resource genesis and exploration methods discussed during two days in 24 presentations, and Abstract volume was published.

Projects:

International

- PGE mineralization in ophiolite belts in Mongolia (2008-2010)
- Rare metal granitic magmatism of the Central Asia folded belt (2008-2010)
- Geomap-200. Members of IAGOD group are involved and are leaders of this ongoing project. Progress report of 1:200 000 map discussed and proved.
- CCOP-USGS-CGS Mineral Resources Assessment Project (GMRAP)
Domestic projects
- Volcanic rocks GIS database (sponsored by Geological Information Center, Mongolian Mineral Resources Authority)

Selected publications by the national group members

Books:


Journals:


Papers:
Bayaraa Batkhishig, Tsuchiya Noriyoshi, and Bignall Greg, Magmatism of the Shuteen Complex and Carboniferous subduction of the Gurvansaikhan terrane, South Mongolia. Journal of Asian Earth Sciences (In print)


The most important events and projects planned for 2010-2011

Conferences and Meetings:
MONGOLIA EXPLORATION ROUNUPO 2010 – March 2010 – Second Meeting
DISCOVER MONGOLIA 2010 – November 2100 – investor Forum
GEOLOGY AND MINERAL RESOURCES OF CENTRAL ASIA - October 2010 – dedicated to 50th Anniversary of Geological Education in Mongolia
GEOLOGY AND PETROLOGY OF MONGOLA – March 2011 – dedicated to 80th Anniversary of Academician B. Luvasandanzan
Projects:
International: Herlen-Onon collage of terranes of the south-west section of the Mongol-Okhotsk orogenic belt (magmatism, metamorphism, geodynamics).
Domestic: Volcanic rocks GIS database (last year) – Volcanic rock map and in 2011 – Mongolian magmatic rocks map will be produced.

Attendance at International Events:
GAC-AGC Annual Meeting in Toronto, May 2009
Attended Roundtable with presentation “Metallogenesis of granite-hosted mineral deposits in Mongolia”
International Year of Planet Earth in Lisbon, November 2009.

The Mongolian National Committee of IYPE together with IAGOD Group and Mongolian Geological Society organized Prize-awarding photographic contest on subjects related to Earth Sciences and the Environment in order to foster the diffusion of scientific culture, to promote knowledge of our planet, and to direct the utmost attention to the initiatives of the Program Planet Earth together with Trieste University, Italy. In 2009 published and presented in Lisbon Album “Earth Vision” and Calendar.

Submitted by Mongolian IAGOD Group chairwomen O. Gerel
January 24, 2010

Report of the Uzbekistan national IAGOD group for 2009

Members of the national group:
1. Koneev Rustam Ismailovich – professor, National University of Uzbekistan, rkoneev@yahoo.com;
2. Turamuratov Ilkhom Bekchanovich – PhD, State Committee on geology and mineral resources, turamuratov@mail.ru;
3. Juraev Abduvali Juraevich – PhD, State Committee on geology and mineral resources, juraev07@mail.ru;
4. Pirnazarov Majid Mahkamovich – PhD, Geological Information Centre;
5. Rustamov Asror Ikravich - State Committee on geology and mineral resources;
6. Divaev Farid Karibovich;
7. Isakov Maksud Uzakovich – PhD, Institute of Mineral Resources, mineral@cu.uz;
8. Tsoy Vladimir Den’evich – doctor of geology, Institute of Mineral Resources, vtsoi@inbox.ru;
9. Akhundjanov Rakhmatjon – doctor of petrography, Institute of Geology and Geophysics of Academy of Sciences of the Republic of Uzbekistan, rkn.akhundjanov@mail.ru;
10. Usmanov Akhror Islamovich – PhD, Institute of Geology and Geophysics of Academy of Sciences of the Republic of Uzbekistan;
11. Mamarazikov Usman – PhD, Institute of Geology and Geophysics of Academy of Sciences of the Republic of Uzbekistan, ohusm@mail.ru;
12. Khatamatov Rustam Abduhatovich – scientific associate, National University of Uzbekistan;
13. Mun Yulia Sergeevna - PhD, National University of Uzbekistan; ju.moon@yahoo.com
14. Jukov Alexander Vladimirovich - PhD, National University of Uzbekistan;
15. Kodirov Obid – Master, National University of Uzbekistan.

There are no changes from the previous list of members.
**Chief of the group: Koneev Rustam Ismailovich.** Doctor of geology-mineralogical sciences, professor of “Mineralogy and geochemistry” chair of the geology faculty of National University of Uzbekistan named after Mirzo Ulugbek. He is a manager of “Micro- and nanomineralogy of natural and anthropogenic processes” laboratory, chairman of Mineralogical Society of Uzbekistan. Main directions of the research are geochemistry, mineralogy, nanomineralogy, patterns of formation of gold-bearing deposits, metallogeny of Uzbekistan. There are more than 170 published works. Contact information: tel. (+99871) 2463641, mobile (+99871) 1870754, e-mail: rkoneev@yahoo.com. Geology faculty, National University of Uzbekistan, VUZ-gorodok, Tashkent, 100174, Uzbekistan.

**Events:** In 2009 Rustam I. Koneev and Vladimir D. Tsoy took part in the international seminar, held in Syktivkar, Russia. Rustam Koneev was among members of the Organizing Committee as well as presented a report on gold ore deposits of Uzbekistan. In August, 3 members of National IAGOD group (Rustam Kholmatov, Yulia Mun, Alexander Jukov) took part in the conference, held by SGA in Townsville, Australia. In September it was launched the project supported by SIU (Norwegian Center for International Cooperation in Higher Education). Within the framework of this project 2 members of National IAGOD group were members of delegation from Uzbekistan in Norway.

**Projects:** It was launched a joint project with the University of Tromso, Norway, directed at the development of cooperation in Higher Education, improvements of geological education in Uzbekistan, exchange of experience in professional and teaching fields between National University of Uzbekistan and University of Tromso.

**Publications:**


**Events and projects for 2011:**
XXVth IUGG General Assembly, Melbourne, Australia, 27.06-08.07.2011

Oooooooooooooooooooooooooo
WORKING GROUP ON TIN - TUNGSTEN DEPOSITS (WGTT)

Leadership

Chairman: Dr. W. David Sinclair, GSC Ottawa, Dave.Sinclair@NRCAN-RNCan.gc.ca
Vice-Chairman: Dr. Reimar Seltmann, CERCAMS NHM London, rs@nhm.ac.uk
Secretary: Dr. Thomas Seifert, Bergakademie Freiberg

Contact: Privat-Dozent Dr. habil. Thomas Seifert, thomas.seifert@mineral.tu-freiberg.de
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http://www.mineral.tu-freiberg.de/econgeology/index.html

Members

Beside the above-mentioned leaders, among others not listed here, the group of core members includes members of the RFE NG IAGOD from FEGI Vladivostok under G. & V. Gonevchuk, members of Russian NG including Prof. Ingo Kigai (IGEM Moscow) and a group of scientists from IGM SB RAS Novosibirsk, and Prof. Miroslav Stemprok (Charles University Prague).

Events


Tin-silver excursion in Bolivia, October 2009: Oruro (tin smelter and university); Potosi (Cerro Rico de Potosi Ag-Sn-polymetallic mineralization, university of Potosi), Leader: T. Seifert

Projects

Members of the Russian Far East IAGOD Group (Gonevchuk V.G. and Gvozdev V.I.) are participants of the Russian-Indian project (sponsored by the Russian Fund of Fundamental Investigation) on 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). Period: 2009 - 2011. Project Coordinators: Russian - Academician Nikolay 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 objects 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.

Dr T. Seifert is involved as one of the leaders in the new Li project Erzgebirge - Li resources in Li-bearing Sn-W-Mo greisen deposits and zinnwaldite greisen deposits (TUBA Freiberg; since 11/2009).
http://www.freiepresse.de/NACHRICHTEN/THEMA DES TAGES REGIONAL/1661103.php
http://www.freiepresse.de/suche.php
The most important events and projects planned for 2010-2011

Members of WGTT take active participation in various sessions at the XIIIth Quadrennial IAGOD Symposium in Adelaide as well as at the SEG Keystone conference.

A special issue on “Minerals of Russia” is being prepared for publication in the *Australian Journal of Earth Sciences* (nos. 5-6 / 2010), including a comprehensive review on “Metallogeny of Siberia” (Seltmann et al.), and article by Gonevchuk et al. on “Tin deposits and ore-bearing magmatism of Sikhote-Alin (Russian Far East)”.

**Selected publications:**


Seifert, Th. (2009). Late-Variscan Polymetallic Ore Deposits in Central Europe and Their Relationships to Large Igneous Provinces (LIP) and Mantle Plume Magmatism. LIP of the month / October 2009 - web page of the Large Igneous Provinces Commission in IAVCEI (editor: Richard E. Ernst, Ottawa) [http://www.largeigneousprovinces.org/LOM.html](http://www.largeigneousprovinces.org/LOM.html)


**Articles and books of interest**


*Moscow, Scientific World, 2008. 368 p. (in Russian)*

The book is devoted to characterization of conditions of formation and geological settings of Phanerozoic tungsten skarn deposits. Compositional and genetic variability of tungsten skarn deposits is established and explained on the basis of various regional and local geological and genetic factors (tectonic, magmatic, etc.) responsible for their formation.

Some conclusions concern general issues of tungsten metallogeny including spatial and temporal evolution of tungsten mineralization in Phanerozoic orogenic belts and provinces. Structural settings of tungsten skarn deposits in mineralized districts are also shown. Compositional and structural variability of skarn and ore bodies on different vertical levels accompanied by the respective variations of parental plutons and related hydrothermal alterations is described. The differences in structural conditions of formation of tungsten skarn deposits are demonstrated. Different types of tungsten-bearing magmatic suites in various orogenic belts are identified on the basis of variability of conditions of magmatic generation, emplacement and crystallization. The features of magmatic suites defining their productivity for tungsten skarn deposits are suggested. Relationships between magmatic and hydrothermal-metasomatic processes are shown. Differences of physical-chemical conditions for various types of tungsten skarn deposits are demonstrated and quantitatively estimated. Genetic continuity of subsequent hydrothermal-metasomatic stages and their general compositional correspondence to the composition of productive plutons are shown. The physical-chemical factors leading to concentration of tungsten mineralization are suggested. A multi-factor geological-genetic model of tungsten skarn deposits is presented and, on this basis, a list of regional, district-scale and local prospecting and assessment criteria is suggested.
WORKING GROUP ON THERMODYNAMICS OF NATURAL ORE-FORMING FLUIDS

Leadership: Nikolay Akinfiev

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Yuri Shvarov, Moscow State University, Geological Department, 119992, Moscow, Leninskiye Gory 1, yushvarov@geol.msu.ru

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**Events:**
The section of “Physical Chemistry of Natural Ore Forming Fluids” in the framework of International Conference “New Ideas in the Earth Sciences” (IGEM RAS, Moscow, Russia) has been conducted (Nikolay Akinfiev as a convener). The first day of the section has been dedicated to the experimental data of modern physical geochemistry. The main theme of the second day reflected advances of theoretical and thermodynamic description of geochemical processes. Total number of participants: 46, 25 oral presentations, 4 plenary talks.

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**IAGOD COMMISSION ON PLACER DEPOSITS (COPD)**

**Leadership:**

**Chairman** - vacant

**Vice-Chairman** – Dr. Jan Krason, Geoexplorers International Inc.
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IAGOD Newsletter 2009

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Maniswamy Manimala, SouthernEra Diamonds Inc., Congo E-mail: m.muniswamy@southernera.com.

Roman Chefranov IGEM RAS: E-mail: Roman_chefr@bk.ru

Events:
In 2009 COPD members had active participation in following actions:

1. 5th International Symposium of International Geological Correlation Programme-514 (IGCP-514) in Guilin, China, October 14-18, 2009 under the general theme “Fluvial Palaeo-System: Evolution and Mineral Deposits”.

   It consisted of 20 oral and poster presentations that characterize position and connection of placer deposits with other types of sedimentary ore deposits in paleo-valley systems and surrounding environment. About 40 experts in various scientific fields took place in IGCP-514 in Guilin.

   Also participants had field research on Dachang tin deposit (October 16-17, 2009) and during Lijiang River Geological Tour (October 18, 2009). Results of the researches are published in the International collection “Fluvial palaeo-systems: evolution and mineral deposits”. Guilin University of Technology Publishers, 2009, 89 p.

2. Meeting of IGCP-514 participants in Beijing Research Institute of Uranium Geology (Beijing, China)

3. The 10th Biennial Meeting of The SGA (http://sga2009.jcu.edu.au/), Townsville, North Queensland, Australia, August 17 - 20 2009. This conference is organized by The Society for Geology Applied to Mineral Deposits (SGA) and the Economic Geology Research Unit (EGRU) at James Cook University, in association with the Society of Economic Geologist(SEG).

4. 13-th Scientific-Practical conference «Realization of oil-gas potential of West Siberia ». Khantimansiisk, Russia, 16–19 November 2009 (200 participants from 9 countries).


7. 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:
1. IGCP-514 “Fluvial palaeo-systems: evolution and mineral deposits”
   Details of activity on [www.igem.ru/igcp514](http://www.igem.ru/igcp514)
   (Alexander Lalomov – co-leader of the project, Alejandra Duk-Rodkin co-leader, Baohong Hou co-leader, Anna Bochneva - secretary)
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**


**Some papers:**


Shmakov, I. Geological Evolution Of Diamondiferrous Placers Of Western Flank Of The Ural Mountains (Russia) // Proceedings of the 4-th IGCP-514 conference “Fluvial palaeo-systems: Evolution and mineral deposits” (Guilin, China, 14-18 October, 2009), p. 81-86.

The most important events and projects planned for 2010-2011
1. XIV International Symposium on Geology of Placers and Weathered Rock Deposits (September 2-10, 2010, IMG SB RAS, Novosibirsk, Russia).
2. 13th Quadrennial IAGOD Symposium (6-9 April 2010, Adelaide Convention Centre, Adelaide, SA; as a Specific Theme – “Fluvial palaeo-systems and onshore basins: evolution and mineral deposits”.
5. 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.
6. Project on re-evaluation of placer resources in Siberia by Joint Ventures of Western and Russian companies, merging old Soviet concepts of A,B, C1, C2, C3, P reserves with JORC and Ni43-101 standards in the West.

Submitted by CTOD Secretary – Dr. Alexander V. Lalomov

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## INTERNATIONAL URANIUM GROUP (IUG)

### Leadership:

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Position and Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chairman</strong></td>
<td>Professor Michel CUNEY</td>
<td>CNRS Research Director CREGU &amp; UMR G2R 7566 Géologie et Gestion des Ressources Minérales et Energétiques Université Henri Poincaré - NANCY I Equipe Genèse et Gestion des Ressources Minérales Domaine Scientifique Victor Grignard - Entrée 3B BP 70 239 - F54 506 Vandœuvre-lès-Nancy, France Internet: <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>
</tr>
<tr>
<td><strong>Co-Chairman</strong></td>
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</tr>
<tr>
<td><strong>Secretary</strong></td>
<td>Dr. Vladimir LOBAEV</td>
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</tr>
</tbody>
</table>
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Alexei KULYOV-NEGRUTSA (VSEGEI, Saint-Petersburg, Russia) - alnuc_negrutsa@geologist.com;

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Events:

Workshops:

<table>
<thead>
<tr>
<th>Title</th>
<th>Meeting, location, time</th>
<th>Organizers</th>
<th>Number of participants</th>
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<tbody>
<tr>
<td>Global Uranium Symposium U2009 Pre-Conference Workshop «Uranium Geology &amp; Deposit Types»</td>
<td>Keystone, CO USA (May 07-08, 2009)</td>
<td>Michel CUNEY (CNRS, Nancy, France), Dan BRISBIN (CAMECO)</td>
<td></td>
</tr>
<tr>
<td>8th Freiberg Short Course in Economic Geology &quot;Metallogeny and Exploration of Uranium Deposits&quot;</td>
<td>Freiberg, Germany (December 7 - 12, 2009)</td>
<td>Michel CUNEY (CNRS, Nancy, France)</td>
<td>About 75 persons</td>
</tr>
</tbody>
</table>

Proposed Topics:

This two-day course was covered descriptive and genetic uranium deposit models for a variety of uranium deposit types. It was linked the geological, geochemical and geochronological features of these deposits, along with concepts regarding deposit genesis, to the development of exploration strategies and selection of exploration techniques.

The course presenters have considerable experience in exploration and in deposit research and thus will be able to cover both the conceptual and practical aspects of uranium deposit models and exploration. The most economically important deposits, those which are also the focus of most exploration efforts worldwide, will be emphasized. These include the unconformity, sandstone, quartz pebble conglomerate, calcrete, breccia, metasomatic and volcanic-, intrusion-, metamorphic-hosted vein type, and disseminated intraplatonic uranium deposits.

Symposia and Conferences:

<table>
<thead>
<tr>
<th>Title</th>
<th>Location, time</th>
<th>Organizers</th>
<th>Number of participants</th>
</tr>
</thead>
</table>

Topics:
The Business Side of Uranium, Exploration Techniques, Geophysics & Geochemistry, Mining and Processing, Project Case Studies & Updates, Restoration, Reclamation & Hydrology, Environmental Health & Safety, Permitting & Regulatory Affairs, Socio-Economic Impacts - Sustainability Planning, Human Resources Efforts to Attract New Professionals
Other events:

Dr. Michel CUNEY was elected as a SEG lecturer and in his lecturer duty is scheduled to deliver also a presentation at the IAGOD Symposium in Adelaide.

The CERCAMS team at NHM London (cercams@nhm.ac.uk) continued to compile published data on the uranium potential of the CIS, mainly Russia and particularly Central Asia, as well as Mongolia. The approach aims to update the existing GIS datasets on Central Asia and Mongolia and to prepare future publications on selected regions and topics;

In 2009 Alexander RED’ KIN have methodized data on UO2 solubility in chloride solutions (H2O-HCl, KCl-HCl) in the range temperature from 300 to 700°C, to settle with predominant complexes of U(IV) species, to estimate thermodynamic properties of the predominant species.

Selected publications in 2009:

Michel CUNEY & Kurt KYSER, Recent and not-so-recent developments in uranium deposits and implications for exploration, Mineralogical Association of Canada, Short Course Series, Volume 39, Short Course co-sponsored by the SGA and MAC and delivered at the joint annual meeting of the GAC-MAC-SEG- SGA, Quebec, 24 – 25 May, 2008.

Yuri MIRONOV, Metallogeny of Uranium of the Eastern Part of Central Asia Mobile Belt, Unpublished Doctor of Science Thesis in the A.P. Karpinsky Russian Geological Research Institute (Saint-Petersburg, Russia).


Events and projects planned for 2010

1) IUG officers will continue to recruit new uranium members in Russia and abroad.
2) IUG continues to create the Uranium Data Base, which will be available on the IAGOD internet site (microphotos, macrophotos, data files).
3) IUG will participate in different sessions of the 13th Quadrennial IAGOD Symposium 2010 «GIANT ORE DEPOSITS DOWN-UNDER» (6-10 April, 2010, Adelaide, Australia).
4) IUG (Martin FAIRCLOUGH) will organize field excursion «Uranium Mineral Systems in South Australia», including breccia-related and sandstone hosted examples. It will demonstrate the link between 1580 Ma Cu-An-u mineralization and younger styles of U mineralization;
5) IUG will possibly participate in SEG 2010 Conference in Keystone (CO, USA).

Submitted by M. CUNEY, Chairman IUG, Yu. MIRONOV, Co-Chairman IUG
ANNOUNCEMENTS

13th Quadrennial IAGOD Symposium 2010

‘GIANT ORE DEPOSITS DOWN-UNDER’

ADELAIDE, SOUTH AUSTRALIA

6-9 APRIL 2010

Venue: Adelaide Convention Centre, Adelaide

Adelaide Convention Centre

Conference Format

IAGOD Adelaide 2010 will consist of several concurrent technical sessions to be held within the Adelaide Convention Centre, along with some afternoon fieldtrips to nearby minesites during the conference, several pre- and post-conference fieldtrips, short courses, displays and social functions. More info ...

Pre- and Post-conference fieldtrips

There are several proposed 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) arriving in Adelaide a few days before the conference begins.
Accommodation

Adelaide offers a wide range of accommodation (backpackers, hostels, one to five star hotels, self-service apartments etc.) within walking distance of the Adelaide Convention Centre. A list will be provided with the First Circular and on the IAGOD website soon.

Social Events

Proposed social events include a behind-the-scenes visit to the South Australian Museum, Penfolds Magill Estate winery in the Adelaide Hills, Adelaide Conservatorium of Music, historic Hahndorf village, and a typical Australian BBQ.

Secretariat

Chair: Professor Ian Plimer, University of Adelaide
Treasurer: Dr Martin Fairclough, PIRSA
Secretary: Dr Ian Graham, University of New South Wales
Dr Nigel Cook, IAGOD President
Global Tectonics and Metallogeny Journal

A vision statement by Sergei Cherkasov

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 Quadrennial IAGOD Symposium 2006 in Moscow, 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.

IAGOD announces:

By May 2010 suggestions on the members of the editorial board are welcome.

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 metallogogenesis 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.

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

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Opportunity for participants of the MINGEO SIBERIA 2010 Forum to visit the Olimpiada mine, the unique mine of the Krasnoyarsk Territory

Announced 27th February 2010 – A one-day excursion to Olimpiada mine will be organized within the framework of MINGEO SIBERIA 2010 Mining & Geology Business Forum. The excursion is planned on May 14, 2010, additionally to the main programme of the MINGEO Siberia 2010 event.

The Olimpiada Mine is the largest gold mining enterprise in Russia with annual gold production of over 27 tonnes and with annual mining exceeding 35 mln. m³.

In July 2007 the third Mill of the Olimpiada mine (Mill-3) was launched with the annual capacity of 5 mln. tonnes. This boosted Olimpiada’s annual sulfide ore processing capacity to 8 mln. tonnes. The new mill uses bio-oxidation technology which helps to increase substantially the gold recovery from sulfide ores. The technology was adjusted by the Polyus’ specialists to the conditions of northern climate and has been successfully applied at the Olimpiada Mine since 2001.

Polyus CJSC performing active geological exploration in the Krasnoyarsk Territory. Exploration at the Blagodatnoye and Titimukhta deposits during the last 3 years allowed to put at the state balance about 400 tonnes of gold reserves. Recently these deposits are being prepared for development. As a result, starting 2011, the capacity of gold production by Polyus company in the Krasnoyarsk Territory will exceed 40 tonnes.

During the excursion the visitors will have an opportunity to observe how the unique mine is functioning. Because of the complicated transportation scheme, the number of people in the group is limited.

If you are interested to join the excursion, please note that the deadline for submission of application forms is May 1, 2010. The application forms are to be submitted to the Organizing Committee of the Forum. The fee for the excursion is 30,000 Roubles (equivalent of approximately $1000.- USD) and is to be paid in addition to the Forum registration fees. The fee includes air transportation from Krasnoyarsk to Eruda and back, auto transportation and organization expenditures.

Please notify the Organizing Committee about your participation in the excursion.
tel.: +7 /392/ 297-79-26, tel./ fax: +7 /391/ 221-82-82 or info@mingeoforum.ru

www.mingeoforum.ru

ORGANIZERS of the FORUM
Department for Mineral Resources Management in the Krasnoyarsk Territory (Krasnoyarsknedra)
Association of Geologists & Miners of the Krasnoyarsk Territory
Siberian Federal University
International Workshop
“Metallogeny and magmatism of Central Asia”
Eastern Kazakhstan State Technic University named after D. Serikbaev
EKSTU, Ust-Kamenogorsk
10 June 2010, 10:00h – 18:00h
First Announcement

Dear Sirs, we are inviting you to take part in the international workshop “Metallogeny and magmatism of Central Asia dedicated to 75 anniversary of Academician Professor Boris A. Dyachkov.

Organizers: Eastern Kazakhstan State Technic University named after D. Serikbaev
Centre for Russian and Central Eurasian Mineral Studies (CERCAMS)/IAGOD, NHM London

Scientific Programme (draft)
1. R. Seltmann “Geodynamics, magmatism and metallogeny of the Altaids: Revised concept for new discoveries”
2. F. Pirajno “Orogen-scale intracontinental strike-slip faults, intraplate magmatism and the generation of large mineral systems in NW China and Altai-Sayan (Siberia)”
3. A. Izokh “Mafic magmatism of Eastern Kazakhstan“
4. E. Naumov, A. Borisenko, K. Kovalev, Y. Kalinin “Age of gold mineralization in Western Siberia and Eastern Kazakhstan”
7. B.A. Dyachkov, M.A. Mizernaya “Geology and metallogeny of the Greater Altai, controls of formation and conditions of distribution of ore deposits”

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- #4 (2004), CERCAMS-IV (Central Asia workshop of GMRAP), Almaty: 4-6 April 2004
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Aims & Scope

Global Tectonics and Metallogeny provides a forum for a systematic discussion of the factors which govern the genesis and distribution of ore deposits from district to continental and to global scale.

Special emphasis is placed on understanding and describing relationships between metallogensis, regional and global tectonics and the processes that connect them.

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

Call for papers: Conference Proceedings

Authors are invited to submit their papers related to the 13th Quadrennial IAGOD Symposium “Giant ore deposits down under” to the Guest-Editor Franco Pirajno (address: School of Earth and Environment, The University of Western Australia; Geological Survey of Western Australia 100 Plain Street, East Perth WA 6004, Australia, e-mail: franco.pirajno@dmp.wa.gov.au) or via Global Tectonics and Metallogeny Online Review System. Manuscripts can be handed over to Franco Pirajno on site in Adelaide.
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Selected papers of previous issues
Chernikov, A.A.: Mineralogical features of uranium ores, large and superlarge deposits of Russia and adjacent countries – Global Tect. & Metall. 9: 21–30
Hildenbrand, T. & Berger, B.: Regional structures related to mineral deposit clusters in western United States, based on magnetic and gravity interpretations – Global Tect. & Metall. 8: 51–56
Kutina, J., Pei, R. & Heyl, A.V.: The role of deep lithospheric structure in the genesis and distribution of giant and supergiant concentrations of metals in the crust – Global Tect. & Metall. 8: 9–50
Robb, L.: Time, episodicity and the generation of world class ore deposits – Global Tect. & Metall. 8: 213–215