IAGOD e-Newsletter

(2012-2013)

International Association on the Genesis of Ore Deposits

Compiled by Sun Xiaoming, IAGOD SG

Department of Earth Sciences, Sun Yat-sen University

Guangzhou, P.R.China
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1. A letter from the IAGOD President

IAGOD was founded in 1963 (50 years ago) and is both from membership, personnel and topics in a process of continuous renewal. The election process of new Council and officers that was launched around the IGC in Brisbane 2012 has resulted in a significant renewal of IAGOD Executive Council. A new generation of research leaders now volunteers to lead the association and engage in serving the membership and contribute to international research cooperation, training of a young generation of mineral deposit researchers, and organising events to keep IAGOD a lively society that justifies its existence. The association has shown in the past year that it can combine forces and establish fruitful cooperation across the globe, especially with our sister societies SEG and SGA but also with IUGS-UNESCO’s IGCP programmes and national research organisations. A highlight to reflect this rejuvenation and partnership will be the Quadrennial IAGOD Symposium in Kunming, 2014, that comprises an ambitious program of sessions, courses/workshops and field trips. Many of the historic Working Groups and Commissions have delivered a great contribution and some are now being replaced by new emerging ones. Examples are the new International Uranium Group and the Working Group on Critical Metals (born out of a merger with the Working Group on Tin and Tungsten Deposits). Council is currently endorsing a proposal of Prof. Vladykin (Irkutsk, Russia) to re-establish a group on “Mineralisation Related to Carbonatites and Alkaline Rocks”, and we welcome the proposal to revive the DIWA group that addresses mineralisation processes not related to plate tectonics. Other working groups and commissions on Fluid Inclusions (previously COFFI), on skarns and a proposal to establish a group focusing on IOCG are in the pipeline. We also welcome a consolidation of the previously declining individual membership that was due to aging of IAGOD’s founders’ generation, now buffered by again growing membership, especially from China, India and Iran. In 2013 IAGOD engaged in co-sponsoring events in the Urals (Russia), in Mongolia and in Vietnam (leading to a new National IAGOD Group for Vietnam). For 2014 IAGOD
will engage beside its Quadrennial Symposium with supporting conferences in Iran, in
the UK (Eurogranites 2014 in Cornwall, North Atlantic Craton Conference, and so on),
and the International Platinum Symposium in Ekaterinburg, just to mention a few out
of many activities. IAGOD is also interested to continue its close cooperation with the
International Geoscience Programme (IGCP) and to contribute to IUGS’ proposed
major new initiative “Resourcing Future Generations” (RFG). We encourage
especially early career researchers and young scientists to take initiative in
establishing and leading new activities to fill IAGOD with live (simply contact the
Secretary General or other Council members with an expression of interest). The
proposals must come from the membership to fill their association with life whereas
Council sees its task in steering and guiding these efforts. We continuously look to
strengthen our Council with inviting research leaders to take responsibility by serving
a 4-year term as officers. We also invite proposals on hosting the next Interim
Conference in 2016 and the next Quadrennial in 2018. We invite the international
communities to join our coordinated efforts and to cooperate to mutual benefits.

Prof. Mao Jingwen, President of IAGOD
2. General Report of the International Association on the Genesis of Ore Deposits (IAGOD) for 2012-2013

2.1 Overall objectives

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, both individual members and members in 12 National IAGOD Groups (China, Czech Republic, Georgia, Kazakhstan, Kyrgyzstan, Mongolia, Russia, Slovakia, Spain, Tajikistan, Ukraine and Uzbekistan).

2.2 Structure and organizations

IAGOD activities are run through topical Commissions and Working Groups (see www.iagod.org ) in the fields of tectonic control of ore deposits, global tectonics and metallogeny, tectono-magmatic activization, remote sensing methods for tectonics & ore prospecting, research in paragenesis and ore forming fluid inclusions, industrial minerals and rocks, placer deposits, tin-tungsten deposits, skarn deposits, thermodynamics of ore-forming fluids, research linking ores and metamorphism. The three most active groups are: Commission on Ore Deposits in Mafic & Ultramafic Rocks (CODMUR – reconnected under IAGOD umbrella in 2013); Working Group on Critical Metals (WGCM – established in 2013); and International Uranium Group (IUG).
2.3 Major accomplishments in 2012-2013

2.3.1 Meeting and conferences

(1) IAGOD co-sponsored and actively participated at the 12th SGA Biennial Meeting in Uppsala, Sweden, 12-15 August, 2013. Nigel Cook (IAGOD Past President) was invited as keynote speaker in Session S2.5 “Ore mineralogy and geometallurgy”. IAGOD - Commission on Ore Deposits in Mafic and Ultramafic Rocks, CODMUR) was scientific sponsor of Session S3.6 “Ore deposits associated with mafic and ultramafic rocks”. IAGOD – Working Group of Critical Metals co-sponsored a session an e-tech elements and held its inaugural meeting.

(2) IAGOD (CODMUR)-sponsored session organized in the Goldschmidt conference at Florence (Italy), August 25-30, 2013 under Theme 13: Ores: Their Construction, Destruction and Politics. This session was part of CODMUR activities under IAGOD and IGCP-SIDA Project 599.

(3) IAGOD co-sponsored Critical Metals meeting (CM2013) at Ulaanbaatar, Mongolia, July 3-5, 2013. This three-day IAGOD sponsored Workshop provided a forum for discussion of the origin and evolution of REE, Nb, Ta, Li, Mo and In deposits, and related processes in igneous, hydrothermal, metamorphic and supergene environments.

(4) IAGOD co-sponsored the International conference “Ore Genesis” held in the Institute of Mineralogy (Russia, Miass) from 7 to 9 August 2013. The purpose of the Conference was to present new results of studies on fundamental and applied problems of geology, mineralogy and geochemistry of ore deposits.

The main purpose of the conference is to present new results of studies on fundamental and applied problems of geology, mineralogy and geochemistry of ore deposits. The conference covered the following topics: (i) evolution of ore-bearing structures and models of ore formation; (ii) comparative analysis of modern and ancient ore formation systems; (iii) ore facies and mineral and geochemical associations as indicators of physical and chemical conditions of ore formation; (iv) thermodynamic modeling of ore-forming processes; (v) current
methods of study, forecast and rational use of ore deposits; and (vi) examination of the unique collection of black smokers and fossil fauna from ancient and modern oceans. Thirty eight contributions were made from 83 scientists all over the world. Fifteen oral and six poster presentations were reported during the conference. A printed volume of abstracts (125 pages) was published before the beginning of the conference. All the materials of the conference are available at the website http://meetings.mineralogy.ru/Default.asp?IdM=default. The meeting was broadcasted on-line via Internet. One pre-meeting field trip (July 28 to August 6, 2013) under the leadership of Professor Valery Maslennikov (Institute of Mineralogy UB RAS) was organized to a number of massive sulfide, manganese, gold, and iron deposits of the Central and South Urals. The participants have visited Saf’yanovka (Central Urals), Yubileinoe, Sibai, Kul-Yurt-Tau, Uchaly, and Zapadno-Ozernoe (South Urals) VMS, Zolotaya Gora, Murashkina Gora, and Murtykty (South Urals) gold, Bikkulovo, Yanzigitovo, and South Faizullino (South Urals) manganese, and Bakal iron deposits. An informative guide-book helped the participants in understanding the key features of geology of the Urals deposits. The participants also enjoyed visits to the Natural Scientific Museum of the Ilmeny State Reserve in Miass and Historical Museum of the town of Zlatoust, exhibiting the famous Zlatoust cold weapon and steel-plate engravings.

(5) IAGOD co-sponsored International Symposium “LARGE IGNEOUS PROVINCES OF ASIA, MANTLE PLUMES AND METALLOGENY (LIPs of Asia 2013 Symposium) in 7 - 11 November 2013, Hanoi, Vietnam. The Chairs of the symposium are Tran Tuan Anh and Franco Pirajno. This Symposium was organized by the Institute of Geological Sciences, Vietnam Academy of Science & Technology in Hanoi, Vietnam National University, the Institute of Geology and Mineralogy, Siberian Branch of the Russian Academy of Sciences in Novosibirsk and the Vietnam Institute of Geosciences and Mineral Resources in Hanoi. Sponsors included the International Association on the Genesis of Ore Deposits (IAGOD), Ban Phuc Nickel Mines, Vietnam Academy of Science and

Participants of the field trip in the office of the Bashirskaya Med’ (Bashkirian Copper) Company (before the visit to Yubileinoe VMS deposit)

Visit to the Zolotaya Gora gold deposit
Twenty seven oral presentations and fifteen posters covered a wide range of topics, relating to mafic, ultramafic, felsic and alkaline magmatism, gold and rare metals mineral systems in Asia. Extended abstracts have been published in an Abstract Volume (Large Igneous Provinces of Asia: mantle plumes and metallogeny, 2013, Publishing House for Science and Technology, Hanoi, 155 pp, ISBN: 978-604-913-158-5). In addition to two invited speakers (F. Pirajno and D. Lentz), papers on mineralization included those of Vladimirov et al., on lithium deposits and Naumov et al. on gold deposits from western Siberia and eastern Kazakhstan. H. C. Sheth presented a talk in which he showed important field features of the Deccan Traps, whereas aspects of plume-related magmatism were discussed by Izokh et al. (Emeishan), Donskaya et al. (LIPs of the Central Asian Orogenic Belt), Gladkochub et al (1750 Ma LIP of the Siberian Craton), Tran Trong Hoa et al (Permian plume magmatism in the Son Da rift system).
northwest Vietnam (field trip guide book by Tran Tong Hoa and Nguyen Hoang, 2013, Permo-Triassic volcano-plutonic associations in the Song Da rift, northwest Vietnam). The field trip participants were based in the town of Son La (Stop 1), northwest of Hanoi, from which excursion Stops 2 to 5, further to the northwest, showed high-Ti basalts at Son La pass, high-Ti and picritic basalts, basalts, dolerites, porphyritic dacites and komatiites. From Son La to the southeast, at Stops 6 to 9 the participants examined outcrops along road cuts of komatiitic basalt, peridotite, pyroxenite, basaltic pillow lavas, mafic pyroclastic, dolerite dikes and andesitic basalt.

The visit to the Ban Phuc Ni mine was the last stop (10), somewhat marred by having the field trip participants undergo 2 hours of induction and about half hour of underground visit. The Ban Phuc dunite-peridotite-pyroxenite intrusion and hornfelsed wall rocks host lenses of disseminated sulfides, whereas massive sulfides (mainly pyrrhotite, pentlandite, chalcopyrite, magnetite and pyrite), occur in a nearly vertical vein system within a shear structure in thermally metamorphosed sedimentary rocks. Measured + indicated resources of massive sulfides total 1.69 Mt, grading 2.68 % Ni and 1.19 % Cu. Measure + indicated resources of disseminated sulfides total 0.9 Mt, grading 1.19% Ni and 0.14 % Cu (Asian Mineral Resources, February 2013 News Release).

(7) In his capacity as IAGOD Travelling lecturer for 2013-2014, Nigel Cook attended the 12th Biennial Meeting of SGA, 'Mineral deposit research for a high-tech world' held 12-15th August 2013 in Uppsala, Sweden. There, he presented a keynote lecture in session S2.5 (Ore Mineralogy and Geometallurgy) titled 'Correlating textures and trace elements in ore minerals'. This proved to be an excellent scientific session with much discussion among the audience.
Field trip; stops 1 to 6

Field trip; stops 7 to 10
Stop 5; Sequence of low-Ti olivine-basaltic lavas, amygdaloidal tops are shown by the light colored zones

Stop 7; steeply inclined basaltic pillow lavas; younging direction is towards the left.
In the photo is excursion leader Andrey Izokh.
In 2014, Nigel will present a similar lecture at the 14th IAGOD Symposium in Kunming (August 19-22nd, 2014). Nigel will, together with Cristiana Ciobanu, Brian Rusk, Chris McFarlane, also lead a short course in Kunming under the title "LA-ICP-MS: Geochemistry, Geochronology, and OreGenesis". Nigel is also convening, with Martin Reich and Joel Brugger, an IAGOD-sponsored session 'Sulphide Mineralogy and geochemistry' at the 2014 International Mineralogical Association General Meeting, 1-5 September 2014, Sandton, South Africa. Other venues for the travelling lectureship in 2014 will be announced once finalised.

(8) **Symposium of celebrating Prof. Pei Rongfu for his 90th year old and engaging geology of 70th anniversary**

Symposium of celebrating Prof. Pei Rongfu, an on life IAGOD member, for his 90th year old and geological career of 70th anniversary was held in Chinese Academy of Geological Sciences on August 24th, 2013. Both Dr. Wang Min, vice-minister and Dr. Zhong Ziran, the chief geologist, Ministry of Land and Resources of the People's Republic of China attended the symposium. Dr. Wang Min gave an ardent speech. He praised Prof. Pei Rongfu is well known geologist over the world, and praised he does very great job in the fields of metallogeny, exploration, and geologic education. Dr. Wang Min emphasized that we should learn from Prof. Pei, who dedicates his whole life to geology and does both academy and industrial carefully and creatively. Total 80 peoples joined the symposium, comprising his 30 students. Dr. Zhong Ziran, a representative of his students, sang the praises of what he learned from Prof. Pei Rongfu and he got the great benefits from the guidance given by Prof. Pei during his career. The several other colleagues, comprising Prof. Chen Yuchuan, the former IAGOD vice president, reviewed their pleased times to work with Prof. Pei Rongfu.

During the symposium Prof. Peirong gave a talk entitled in “A new thinking how to find supper large ore deposits”. Prof. Zhang Hongtao and Prof. Mao Jingwen gave
the talks of “Porphyry copper deposits and prospecting” and “Metallogeny in South China and its geodynamic settings”, respectively.

Symposium to honor the 90th birthday of Prof. Pei Rongfu

Prof. Pei Rongfu gave a talk during the symposium
2.3.2 Other activities

During the 34th International Geological Congress (IGC) in Brisbane, Australia, 5 - 10 August, 2012, a new IAGOD Council was elected in the IAGOD General Assembly and Council Meeting. The last and new councils of the IAGOD are presented in the following table.

<table>
<thead>
<tr>
<th>Position</th>
<th>2008-2012</th>
<th>2013-2016</th>
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<tbody>
<tr>
<td>Past President</td>
<td>A. I. Khanchuk</td>
<td>N.J. Cook</td>
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<tr>
<td>Honorary Past President</td>
<td>I. R. Plimer</td>
<td>I.R. Plimer</td>
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<tr>
<td>President</td>
<td>N. J. Cook</td>
<td>Mao Jingwen</td>
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<tr>
<td>First Vice President</td>
<td>I.T. Graham</td>
<td>A.I. Khanchuk</td>
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<tr>
<td>Second Vice President</td>
<td>Li Ziying</td>
<td>F. Pirajno</td>
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<tr>
<td>1st Vice President at Large</td>
<td>Olexander Bobrov</td>
<td>Li Ziying</td>
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<td>2nd Vice President at Large</td>
<td>Mao Jingwen</td>
<td>A. Aleshin</td>
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<td>Position</td>
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<tr>
<td>Secretary General</td>
<td>Sergei Cherkasov</td>
<td>Chief Treasurer</td>
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<td>Publication Manager</td>
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<td><strong>Regional Councillors</strong></td>
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<td><strong>Ex-officio Councillors</strong></td>
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<tr>
<td>Africa</td>
<td>Vicky Do Cabo</td>
<td>Andor Lips</td>
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<td>Asia</td>
<td>Rosalia Djenchuraeva</td>
<td>Oskar Thalhammer</td>
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<td>Australasia</td>
<td>Martin Fairclough</td>
<td>SGA President</td>
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<tr>
<td>Europe</td>
<td>Alexey Aleshin</td>
<td>SGA Executive Secretary</td>
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<tr>
<td>North America</td>
<td>David Lentz</td>
<td>SEG President</td>
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<tr>
<td>South America</td>
<td>Eduardo Zappetini</td>
<td>SEG Executive Director</td>
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<td>India</td>
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<td>SE Asia</td>
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Notes: Executive Council in bold
3. Financial report

Dr. Thomas Seifert has completed his service as IAGOD Treasurer (8 years of service), and Dr. David R. Lentz took over these responsibilities and joined the IAGOD Executive in February 2013, so 1 year ago. IAGOD continues to aim at keeping its membership dues (currently 10.- Euro for individual members) as low as possible to enable scientists from developing countries to join the Association.

IAGOD bank access and account maintenance are attended to by Dr. Andreas Naegle of E. Schweizerbart'scheVerlagsbuchhandlung OHG (Naegele u. Obermiller) Science Publishers, Johannesstr. 3A, 70176 Stuttgart, Germany; Tel. +49-711-351456-0 / www.schweizerbart.de, mail@schweizerbart.de. In 2013 with the change in Treasurer, IAGOD has moved to a very efficient on-line membership system that mimics our long standing membership renewals that are optional over a several year period, with the latest from 2014 to 2016. We still have a corporate membership payment plan as well that has remained the same price as well. The success of the Quadrennial meeting in Adelaide has left IAGOD quite healthy, which helped IAGOD’s impact on the 34th International Geological Congress in Brisbane.

This past year, we incurred an expense of 958.40 Euros for Dr. Andreas Naegle to audit our IAGOD financial information. We also supported half the cost of an advertisement for the 2nd Critical Metals meeting in Mongolia (357 Euro) in the journal ELEMENTS. IAGOD supported the Ore Genesis conference (Miass, Russia) with sponsorship of 500 Euro. We supported an advertisement in ELEMENTS for the 14th Quadrennial meeting to be held in Kunming, China (690 Euro). As with past support, 2000 Euros of funding was extended to two keynote speakers (Drs. Franco Pirajno and Evgeny Naumov) to attend the LIPs conference held in Hanoi, Vietnam. Our continued support (4907 Euro) for an editorial assistant to support the publication of Ore Geology Reviews was very much appreciated by our Editor-in-Chief (Dr. Franco Pirajno) and the journal. The 2013 financial statements are available upon request from IAGOD Treasurer, Dr. David Lentz, dlentz@unb.ca.

Prof. David R. Lentz, IAGOD Chief Treasurer          February 2014
4. Publication report

4.1 Report of Publication Manager, August 2012 - August 2014

A new flyer for promoting the activities of IAGOD and to generate new members has been produced for the 14th Quadrennial IAGOD Symposium in Kunming. Authorised by Executive Council, a previous agreement with Elsevier has been formalised and signed, valid until 2016, defining the terms and conditions to promote ORE GEOLOGY REVIEWS as the official journal of IAGOD with IAGOD logo on front cover, with IAGOD in advisory role for nominating the Editor in Chief and through him the Editorial Board (subject to approval by the Publisher), a free society page for informal IAGOD content, and five free online subscriptions for IAGOD NG leaders or deserving IAGOD activists from economic disadvantaged background selected at discretion of IAGOD Council (currently Mongolia, Kyrgyzstan, Kazakhstan, Uzbekistan, Georgia). The current volumes 44-46 of OGR inform on the free society page about IAGOD Council, PacRim 2015 advertisement and Argentina 2018 advertisement. Future society pages will inform about forthcoming activities sponsored by IAGOD and its Working Groups and Commissions.

The agreement signed in 2009 with Schweizerbart Publishing House about revival of the IAGOD sponsored journal GLOBAL TECTONICS AND METALLOGENY (founded by Jan Kutina) and to provide free access to the journal for IAGOD members for two years has regardless the tireless efforts of the chief editor Prof Wenjiao Xiao not yet brought the expected results. Reason is mainly that GTM has no impact factor registration yet. One paper by Prof. De Boorder was published online in late 2013; a second article is accepted and in the proof stage and two more articles from Chinese authors are under review. The first volume of the re-launched journal is expected to be complete and released in printed format in late 2014.

The promotion and sale of IAGOD monographs and guidebooks is an ongoing activity.
4.2 Report from Franco Pirajno, Editor-in-Chief of IAGOD’s journal “Ore Geology Reviews”

In 2013 a total of 256 papers have been submitted to the Ore Geology Reviews, including papers submitted for Special Issues (see below). Of these, 47 papers were rejected and 24 withdrawn. It is of interested to note that a total of 166 papers were from Chinese scientists with 24 rejections.

At the time of writing the Impact Factor of Ore Geology Reviews is: 2.417 (Mineralium Deposita is 2.147 and Economic Geology 2.49); the 5-year IF of OGR is 2.588.

The Journal has 22 Associate Editors from institutions in Australia, USA, UK, China, Brazil, Turkey, South Africa, Russia, Chile and Germany.

Last published volume (56, January, 2014), has a record number of 595 pages. Special Issues continue to play a very special role, in spite of the inherent difficulties, including the well-known fact that a special issue “is completed as fast as the slowest contribution”.

In 2013, the following special issues have been published:

- Iron metallogeny in China – Guest Editors: Z. Zhang, J. Li, J. Encarnacion
- Hydrothermal Ni deposits: secular variation and diversity - Guest Editors: I. González-Álvarez, F. Pirajno and R. Kerrich
- Ore deposits in relation to solid Earth dynamics and surface environment – Guest Editors: M. Santosh and F. Pirajno

Special Issues in progress are:

- Critical metals – Guest Editors: A. R. Chakhmouradian, J. Kynicky and M. Smith
- Major Precambrian events and mineralisation – Guest Editors: H. Fan, L. Zhang and K. Yang
- Ore deposits and mineral occurrences related to Cenozoic magmatism in Iran – Guest Editors: F. Daliran and N. Cook
- Metallogenesis in the Eastern Tethyan Orogens – Guest Editors: Z. Hou, F.
Pirajno and J. Richards

- Australian mineral systems – Guest Editors: D. Huston and TBA
- Gold metallogeny: The Jiaodong Perspective – Guest Editors: M. Santosh and F.

Pirajno

- Modern Analytical Techniques in the Study of Mineral Deposits – Guest Editors: M. Zhou and R. Wang

Special Issue under proposal:

- Gold metallogeny of China – Guest Editors: Feng-Jun Nie and others TBA
5. Reports of IAGOD working groups (WG) and Commissions

5.1 Report of Chinese IAGOD National Group in 2012-2013

Two national academic exchange events, including the 11th Chinese National Mineral Deposit Conference and the 6th Mineralization Theory and Exploration Innovation Symposium, both of which were supported by the Chinese IAGOD National Group, were held in 19-22, October 2012 in Guiyang and 15-18, November 2013 in Guilin, respectively.

The opening ceremony of the 11th Chinese National Mineral Deposit Conference

More than 1000 participants from universities, institutes, government departments and mining companies attended the 11th Chinese National Mineral Deposit Conference, and tens of national leading economic geologists presented their latest achievements as plenary talks or keynotes. Pre-conference workshops and short courses and post-conference field trips were available for all delegates. Twenty-one sessions were set including “regional metallogeny”, “endogenic mineralization and supergene enrichment”, “modern and paleo-marine mineralization”, “geo-fluids and mineralization”, “exploration new theory and techniques”, “mine environment”, “new
technologies applied to mineral extraction”, etc.. This conference proceedings
collected about 1000 papers, and one of the most exciting highlights of this
conference is about half of delegates are students, which means the young generation
of economic geologist in China will contribute and at least maintain prosperous of this
field in the coming decades. Before the conference there are attracted workshops
entitled in “The world – class ore deposits recently explored” and “New theory and
technology applied to mineral prospecting and exploration”. 250 and 200 participants
attended, respectively and had a warm discussion.

The 6th Mineralization Theory and Exploration Innovation Symposium attracted
more than 800 attendees from universities, institutes, government departments and
mining companies in China and overseas. The IAGOD president Prof. Jingwen Mao
took the chair of the opening ceremony. Plenary speakers including Prof. Mingguo
Zhai from Chinese Academy of Sciences, Prof. Guoxiang Chi from Regina university,
Canada, Prof. Yiming Zhou from USGS and Prof. Meifu Zhou from Hongkong
University, etc. The 15 sessions of this conference including “large scale
Mesozoic-Cenozoic mineralization in eastern China”, “magmatic mineralization”,
“south China low temperature mineralization province”, “rare metals and rare earth
elements”, “Precambrian events and related mineralization”, “metal source tracing
and geochronology”, “mineralization theoretical experiment and modeling ” and
“important oversea important metallogeny belts”, etc. More than 600 conference
papers were submitted and more than 300 delegates gave their oral presentations
during the 4 scheduled meeting days(Reported by Dr. Yanbo Cheng).

5.2 Report of the Kazakhstan National IAGOD Group for 2012-2013

5.2.1 Conference, Forum participation in 2012-2013 (IAGOD members
participating with oral and poster presentations are indicated in brackets):

1. 34 Session of International Geological Congress. Brisbane, Australia, 5-10
August 2012 (B.A. Dyachkov).
5.2.2 Scientific monographs


The new geodynamic and formational systematization of gold and gold-bearing deposits of Central Asia is adduced. The main mineragenic epochs and major lithological-stratigraphic levels of gold concentration are considered. The gold potential of Central Asia orogenic belt, of some mineragenic epochs and representative industrial types of gold mineralization is characterized. The formation preconditions and important exploration criteria of large and superlarge gold deposits are characterized (structural position, formational composition, indicative magmatic
rocks, hydrothermal alterations, mineral and geochemical associations, native gold characteristics and others). The actual questions of complex exploration and mining of raw materials are discussed (gold, silver, platinoids, non-ferrous and rare metals, rare earths, radioactive elements). The perspective gold-bearing types of metasomatic alteration are examined. The explosive breccia are characterized as specific indicator of ore-forming process and a very important source of different minerals. The special ore-controlling role of sutures and shear zones is underlined. The monograph is of interest for specialists in forecasting, prospecting and evaluation of gold deposits and for teachers and students from geological departments.

5.2.3 Selected publications


5.2.4 Planned activities for 2014

1. New publications (monographs, reviews, methodical recommendations) in the sphere of the geology and genesis of ore deposits (national and international publishing firms and magazines).

2. Organization and participation in International Scientific Conferences and Meetings (Kazakhstan, Uzbekistan, Russia, China and others).

3. Cooperation with others IAGOD National Groups (joint projects and monographs, exchange of experience).

5.2.5 Current list of the Kazakhstan IAGOD National Group (January 2014)

Chairman: Prof. Mikhail Rafailovich, Scientific Institute of Natural Resources YUGGEO, Shevchenko Str., 162 zh, Almaty, Republic of Kazakhstan. Tel.: (727)2460193, Fax: (727)2686369, E-mail: mrafailovich@mail.ru.

Prof. Bespaev Kh.A. (Almaty), Dr. Dolgopolov V.F. (Almaty), Prof. Dyachkov B.A. (Ust-Kamenogorsk), Dr. Glukhan I.V. (Karaganda), Prof. Los V.L. (Almaty), Dr. Maiorova N.P. (Ust-Kamenogorsk), S.F. Petrov (Ust-Kamenogorsk), Prof.
5.3 Report 2013 of the National IAGOD group of the Republic of Uzbekistan for 2012-2013

5.3.1 Members of the national group:

1. Koneev Rustam Ismailovich – Leader of the Uzbek IAGOD National Group, professor, National University of Uzbekistan, ri.koneev@gmail.com;
2. Khalmatov Rustam Abduhatovich – Secretary of the Uzbek IAGOD National Group, PhD, National University of Uzbekistan; r.khalmatov@yahoo.com;
3. Turamuratov Ilkhomboy Bekchanovich – Chairman of State Committee on geology and mineral resources, turamuratov@mail.ru;
4. Isokov Maksud Uzakovich – Director, Institute of Mineral Resources, mineral@cu.uz;
5. Rustamov Asror Ikramovich - State Committee on geology and mineral resources;
6. Islamov Babir Farkhatovich - Director, Information Center, islamov_bobir@mail.ru;
7. Divaev Farid Karibovich – Chief of sector “Magmatism” Institute of Mineral Resources;
8. Tsoy Vladimir Den’evich – doctor of geology, Institute of Mineral Resources, vtsoi@inbox.ru;
9. Koloskova Svetlana Maxsimovna – PhD, Institute of Mineral Resources, koloskova.uz@gmail.com;
10. Pirnazarov Majid Mahkamovich – Doctor, Institute of Mineral Resources; gpnimr@evo.uz;
11. Akhundjanov Rakhmatjon – doctor of petrography, Institute of Geology and Geophysics of Academy of Sciences of the Republic of Uzbekistan, rkn.akhundjanov@mail.ru;
12. Usmanov Akhror Islamovich – PhD, Institute of Geology and Geophysics of Academy of Sciences of the Republic of Uzbekistan;
13. Jukov Alexander Vladimirovich - PhD, National University of Uzbekistan;
14. Ibragimov Rustam – Postdoc, National University of Uzbekistan;
15. Krivosheeva Anna Nikolaevna – Bachelor, National University of Uzbekistan, anna.k.n.91@mail.ru;

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 (+99890) 9785721, e-mail: ri.koneev@gmail.com, Geology faculty, National University of Uzbekistan, VUZ-gorodok, Tashkent, 100174, Uzbekistan.

5.3.2 Events:
In 2012 Rustam I. Koneev and Rustam A. Khalmatov took part in the European Mineralogical conference, held in Frankfurt am Main. Rustam Koneev and Rustam Khalmatov reported with poster.

In October, 2012, 3 members of National IAGOD group (Rustam Koneev, Rustam Khalmatov, Alexander Jukov) and Tromso University professors and students participated in fieldtrip in the Chatkalo-Kurma region, supported by SIU (Norwegian Center for International Cooperation in Higher Education). Within the framework of this project 2 members of National IAGOD group (Rustam Koneev, Rustam Khalmatov), were members of delegation from Uzbekistan in Norway (Tromso University).

In April, 2013, 3 members of National IAGOD group (Rustam Koneev, Rustam Khalmatov, Alexander Jukov), Tromso University professors and students and R.
Seltmann (CERCAMS) participated in fieldtrip in the Sultan-Uvais region, supported by SIU (Norwegian Center for International Cooperation in Higher Education).

Rustam Koneev and Rustam Khalmatov participated in the 12th Biennial SGA Meeting, Uppsala, Sweden.

5.3.3 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.

5.3.4 Publications:


6. Rustam A. Khalmatov, Rustam I. Koneev "Epithermal gold mineralization of the Kurama volcanogenic province (Uzbekistan): conditions of the formation and mineralogical-geochemical style" EMU 2012. Frankfurt am Main. CD.


5.3.5 Future activities for 2014:
- European Geosciences Union General Assembly. April. Vienna (Austria)
- 12th International Platinum Symposium, 11-14th August. Yekaterinburg, Russia
- Gold Symposium 2014. 8-10th October. Kalgoorlie, Western Australia
5.4 Report of the Tajik National IAGOD Group for 2012-2013

The main events in activity of Tajik IAGOD group in 2012-2013 were:

Conference and international projects participation in 2012-2013

IAGOD members take part with oral and poster presentation:

1. International Geological Congress 34 IGC Brisbane, Australia - 5-10 August 2012
2. 1st International Workshop “Geodynamic evolution of the Central Asian Orogenic Belt”, Institute of Precambrian Geology and Geochronology, St. Petersburg / Russia, May 24-28, 2012
3. The meeting of the Working Group of the DARIUS Programme concerning Central Asia, February 26th and 27th 2013 at the University of Bonn (Germany)
4. International seminar ”Mineral resources of rare earth elements in Central Asia”, 16-17 Sept. 2013, Bishkek

Participation in projects:

1. International project “DARIUS”, 2010-2013 (European & CA scientific cooperation)
2. International project “TIPAGE”, 2008-2013 (Europe & CA & USA & Russia cooperation)
3. International project “UPTEC”, 2010-2013 (Bergacademia Freiberg & China Academy)
4. IGCP project #592 “Continental construction in Central Asia, 2012 – now (Russian AS)

Selected publications
Azim IBROHIM, Rakhmonbek BAKHDAVLATOV, Sharifa KHUDOBAKHSHOVA and Vladislav MINAEV.

Geological information as a guard of economic and ecological sustainability of Central Asian (CA) developing mountain countries. – Abstracts and Proceedings of 34 IGC Brisbane, Australia, 2012

Current list of members of the Kyrgyzstan IAGOD National Group (7 members):
Bakhdavlatov, R.D. (Chairman, State Geology Department at RT Government, the
Main Geologist
Khudobakhshova, Sh.O. (Secretary, State Department of Safeguard in Industry and Mining, Deputy Chief)
Minaev, V.E. (Academy of Sciences & State Geology Department, expert in mineral resources)
Faiziev, A.R. (Academy of Sciences, the Corresponding Member, mineralogy expert)
Oimahmadov, I.S. (Academy of Sciences, the Deputy Director of Geology Institute)
Gadoev, M.L. (Gi AS & National University)
HONORARY MEMBER: Ibrohim, Azim (the Ministry Vice President, on duty for mining industry),
Contact e-mail addresses:
Rahmonbek Bakhdavlatov <rdavlatbekov@mail.ru>; asilbekov_90@mail.ru;
Sharifa Khudobakhshova <khsharifa@gmail.com>;
Vlad Minaev mina.pamirs@gmail.com
Contributed by Vladislav Minaev, Coordinator of the Tajik IAGOD Group
E-mail: mina.pamirs@gmail.com
Cc for control: vlad_minaev@list.ru

5.5 Report of the Russian IAGOD National Group

5.5.1 Main events in 2012

The 1st International workshop on “Geodynamic evolution of the Central Asian Orogenic Belt” was held in the Institute of Precambrian Geology and Geochronology (IPGG RAS, Saint-Petersburg) 25-27 May 2012. It was organised in the framework of the IGCP#592 project “Continental construction of the Altaids (Central Asian Orogenic Belt) compared to actualistic examples from the Western Pacific”, co-sponsored by IAGOD.
About 50 participants from 9 countries took part in the conference to discuss problems of plate tectonics and geodynamics of Central Asian orogenic belt and adjacent territories. Above 30 Russian geologists from 11 research institutes and universities participated in contributions.

The 6th International Siberian Early Career GeoScientists Conference was organized 11-14 June 2012 in Novosibirsk by the Institute of Geology and Mineralogy (IGM SB RAS), the Institute of Petroleum Geology and Geophysics (IPGG SB RAS), and the Novosibirsk State University (NSU). The conference was co-sponsored by the Society of Economic Geologists, and was a part of IGCP#592 project activity scheduled for 2012.

More than 500 participants from 20 countries shared their knowledge these days. The conference comprised pre-conference short courses for students and young scientists, a wide range of thematic sessions, and three post-conference trips. During two days of pre-conference short courses participants attended lectures on magmatism and metallogeny, tectonics and geodynamics, geophysical and geological methods in the oil and gas industry presented by leading specialists in each field.

Thematic sessions covered the following topics: (1) experimental mineralogy and crystal growth; (2) mineralogy, (3) igneous petrology and mineralogy, (4) metamorphic petrology and mineralogy, (5) minerals and ore deposits, (6) tectonics and geodynamics, (7) geomorphology and neotectonics, (8) paleontology and stratigraphy, (9) evolution of sedimentary basins, (10) paleoecology and paleoclimatology, (11) petroleum sciences, (12) geophysical well logging, (13) seismology, (14) electromagnetic methods, (15) applied geology and geophysics, (16) geoinformation systems in the earth sciences, (17) environmental geosciences.

For many of Russian young scientists it was the first experience in an international conference where they could observe high-level presentations provided by leading world-class specialists and try themselves in this activity.

Three post-conference field trips were held 15-23 June. “Mineralogy and Metallogeny of Northwest Altay” trip was organised near Zmeinogorsk city in the Altay region to acquaint participants with typical polymetallic deposits, pegmatite veins
and granite massive. The 2nd field trip “Geodynamic and magmatism of the Gorniy Altay” and was held in the Altay mountains to show Devonian and Carboniferous sections of sedimentary rocks, ophiolite zone, and deep long-living fault zones. The 3rd excursion was devoted to geophysical field methods and took place near Novosibirsk in two experimental geophysical areas.

34th International Geological Congress (IGC), Brisbane, Australia, 5-10 August, 2012. IAGOD co-sponsored Session 9.7 “Mineral deposits: episodes, accumulation of metals and related geodynamic processes in China and adjacent regions” along with IGCP#592 project. Nine Russian geologists took part in this Session.

In total, 277 contributions with Russian geologists’ participation have been presented during the Congress. Among them, 21 members of Russian IAGOD national group represented 10 organisations: IGEM RAS (Moscow) – 7, VSEGEI (St-Petersburg) – 3, IGM SB RAS (Novosibirsk) – 3, TsNIGRI (Moscow) – 2, and one each for the following institutions: Moscow State University, NEISRI FEB RAS (Magadan), FEGI FEB RAS (Vladivostok), Geological Institute of Kola Science Centre RAS (Apatity), Schmidt Institute of Physics of the Earth (IPE RAS, Moscow),
Russian-French Metalogenic Laboratory (Moscow). They participated in 31 contributions.

The 4th International conference and the 3rd school-seminar for early-career geoscientists “Ultramafic-mafic complexes of folded regions and their minerageny” held 27-31 August, 2012 on the Baikal lake. The conference was organised by the Geological Institute, SB RAS (Ulan-Ude) within IGCP#592 project. Forty two specialists, including students and postgraduates, participated in 60 contributions.

Main topics of the conference included: (1) geology and tectonic setting of ultramafic-mafic complexes, geodynamic interpretation and mineragenic criteria, (2) petrology, mineralogy, and geochemistry of ultramatic-matic complexes; mineralization forecasts, (3) isotope geochemistry of ultramafic-mafic complexes, (4) contact zones around ultramafic-mafic intrusions and their related mineralization, (5) experimental and digital petrologic modeling, (6) origin of ore mineralization of ultramafic-mafic complexes and their relation to petrogenesis, mantle sources and fluid regime, (7) nonmetalliferous mineralization of ultramafic-mafic complexes: composition, petrogenesis and distribution, (8) deposits and ore occurrences related to ultramafic-mafic complexes, (9) mineralization of ultramafic-mafic complexes and the methods of its processing, (10) methodological constrains of studying mineralogy, petrography and useful mineralization of ultramafic-mafic complexes.
The conference was attended by pre-conference trips to the Oshurkov apatite deposit (Fersman outcrop), and Yoko-Dovyrencky dunite-troctolite-gabbro massive (North-Baikal region).

“Metallogenic map of Europe” project has been accomplished and reported to the Commission on Geological Map of the World (CGMW) in August 2012 by the Russian-French group headed by Academician Dmitry Rundqvist (SGM RAS Moscow; IAGOD Honorary Life Member), with collaboration of BRGM (France).

The map of a 1:5 000 000 scale consists of several levels of thematic groups: (1) geography, (2) geology, (3) geophysics, (4) mineral resources and metallogeny, and (5) detailed inserts of a 1:1500 000 scale. The main target of the project is to create a GIS system matching state-of-the-art level of fundamental and applied knowledge about Europe metallogeny, with wide range of facilities on information retrieval, its selection and analysis.

5.5.2 Main events in 2013

International Conference “Ore Genesis” (IAGOD co-sponsored) was held in the Institute of Mineralogy, UB RAS (Miass, Russia) 7-9 August, 2013. The conference gathered about 30 participants from different institutions, including ARC Centre of Excellence in Ore Deposit Research, University of Tasmania, Geociencias S.A, (Ecuador), Asante Gold Corporation, (Canada), and Russian organisations – Geological Institute of Ufa Scientific Center RAS, Institute of Geology and Geochemistry, UB RAS (Yekaterinburg), and Institute of Mineralogy.

The main purpose of the conference was to present new results of studies on fundamental and applied problems of geology, mineralogy and geochemistry of ore deposits. The conference covered the following topics: (1) evolution of ore-bearing structures and models of ore formation, (2) comparative analysis of modern and ancient ore formation systems, (3) ore facies and mineral and geochemical associations as indicators of physical and chemical conditions of ore formation, (4) thermodynamic modeling of ore-forming processes, (5) modern methods of study, forecast and rational
use of ore deposits, and (6) examination of the unique collection of black smokers and fossil fauna from ancient and modern oceans.

Thirty eight contributions have been made by 83 scientists all over the world. Fifteen oral and six poster presentations were reported during the conference. A printed volume of abstracts comprises 125 pages.

A pre-conference field trip was organized to a number of massive sulfide, manganese, gold, and iron deposits of the Central and South Urals. The participants have visited Saf’yanovka, Yubleinoe, Sibai, Kul-Yurt-Tau, Uchaly, and Zapadno-Ozernoe VMS, Zolotaya Gora, Murashkina Gora, and Murtykty gold, Bikkulovo, Yanzigitovo, and South Faizullino manganese, and Bakal iron deposits. An informative guide-book helped the participants in understanding the key features of geology of the Urals deposits.
Russian national conference “Ore forming processes: from genetic models to prediction and development of ore provinces and deposits” was held in the Institute of Geology of Ore Deposits (IGEM RAS, Moscow) in honor of centenary of academician Nickolay SHILO 29 October – 1 November 2013. Russian IAGOD national group was a co-organiser of the conference.

Nickolay SHILO was an outstanding scientist in the scope of placer deposits, so wide range of contributions was related to the subject. However, problems of endogeneous mineralisation were also discussed. Four main sessions covered different aspects of ore genesis: (1) metallogenic provinces, (2) deposits of the Far East of Russia, (3) mineralizing systems, and (4) placer deposits and placer producing formations. Eighty four oral and 139 poster presentations have been made during the conference. In total, 428 Russian and foreign geologists participated in the contributions.

International symposium “Large Igneous Provinces of Asia: Mantle Plumes and Metallogeny” took place 7-14 November 2013 in the Institute of Geological Sciences (Hanoi, Vietnam) with IAGOD sponsorship. Two main topics have been discussed: (1) metallogeny, and (2) magmatism and tectonics. Above 100 scientists
from Vietnam, China, Russia, Canada, Australia, USA, and some European countries participated in the conference.

Twenty seven oral and sixteen poster presentations were devoted to magmatism and metallogeny of Asia, Africa and Australia. Problems of paleomagnetism, geochemistry, geochronology and tectonics with related to continental riftogenesis and mantle plumes were covered. Fifteen presentations from 43 total have been made by Russian geologists. Post-symposium trip was organised on Permian-Triassic volcano-plutonic rift formations of north-western Vietnam with unique Phanerozoic komatiites and sulfide ores.

5.5.3 Membership

Russian IAGOD NG comprises 168 geologists throughout Russia:

Elena N. AFANASIEVA (Saint-Petersburg), Nikolay N. AKINFIEV (Moscow), Anatoly M. AKSYUK (Chernogolovka), Stanislav M. ALEKSANDROV (Moscow), Victor A. ALEKSEYEV (Moscow), Alexei P. ALESHN (Moscow), Olga V. ANDREEVA (Moscow), Victor S. ANTIFIN (Irkutsk), Vadim S. ANTIPOV (Saint-Petersburg), Ivan A. BAKSHEEV (Moscow), Yury I. BAKULIN (Khabarovsk), Valentina A. BASKINA (Moscow), Ilya M. BAYUSHKIN (Moscow), Anna A. BOCHNEVA (Moscow), Alexander S. BORISENKO (Novosibirsk), Mikhail V. BORISOV (Moscow), Nikolay S. BORTNIKOV (Moscow), Sergey A. BUSHMIN (Saint-Petersburg), Felix P. BUSLAEV (Ekaterinburg), Alexander A. CHASHCHN (Vladivostok), Sergey V. CHERKASOV (Moscow), Alexander I. CHERNYKH (Novosibirsk), Igor V. CHERNYSHOV (Moscow), Andrey V. CHUGAEV (Moscow), Alexander L. DERGACHEV (Moscow), Elimir G. DISTANOV (Novosibirsk), Vadim V. DISTLER (Moscow), Ilya A. DMITRIEV (Saint-Petersburg), Maya G. DOBROVOLSKAYA (Moscow), Olga A. DOINIKOVA (Moscow), Yury M. DYMKOV (Moscow), Yaroslav S. EMELIN (Moscow), Nikolay I. EREMIN (Moscow), Tatiana L. EVSTIGNYEVA (Moscow), Dmitry T. FEDOROV (Moscow), Vladimir V. GAVRILENKO (Saint-Petersburg), Vyacheslav N. GOLUBEV (Moscow), Valery G. GONEVCHUK (Vladivostok), Galina A. GONEVCHUK (Vladivostok), Bronislav I. GONGALSKY (Moscow), Nikolay S. GORBACHEV (Chernogolovka), Andrey V. GORBATIKOV (Moscow), Nina V. GORELIKHOVA (Moscow), Nikolay A. GORYACHEV (Magadan), Ivan F. GRADOVSKY (Moscow), Dmitry V. GRICHUK (Moscow), Tatiana L. GROKHOVSKAYA (Moscow), Vitaly I. GVOZDEV (Vladivostok), Alexander V. IGNATIEV (Vladivostok), Petr A. IGNATOV (Moscow), Maria M. IVANCHENKO (Moscow), Vladimir V. IVANOV (Vladivostok), Anzhelika A. IVANOVA (Saint-Petersburg), Olga P. IZOKH (Novosibirsk), Yury A. KALININ (Novosibirsk), Sergey A. KASATKIN (Vladivostok), Alexander I. KHANCHUK (Vladivostok), Vladimir V. KOLODNOV (Ekaterinburg), Vadim G. KROMICH (Vladivostok), Ingrid N. KIGAI (Moscow), Maxim V. KIRILLOV (Novosibirsk), Eugeny V. KISLOV (Ulan-Ude), Vladislav V. KOLPAKOV (Novosibirsk), Victor B. KOMAROV (Moscow), Vladimir B. KOMAROV (Moscow), Victor D. KONKIN (Moscow), Dmitry L. KONOPELKO (Saint-Petersburg), Mikhail M. KONSTANTINOV (Moscow), Efim S.
KONTAR (Ekaterinburg), Alexander F. KOROBEINIKOV (Tomsk), Pavel G. KOROSTELEV (Vladivostok), Victor A. KOROTEEV (Ekaterinburg), Svetlana O. KOTOMANOVA (Irkutsk), Vladimir A. KOVALENKER (Moscow), Alexander A. KREMENETSKY (Moscow), Nadezhda N. KRYIUTSKAYA (Moscow), Nadezhda A. KRIVOLYTSKAYA (Moscow), Anatoly I. KRIPTSOV (Moscow), Mikhail T. KRUPENIN (Ekaterinburg), Tatiana L. KRYLOVA (Moscow), Alexey D. KULYOV-NEGRUTSA (Saint-Petersburg), Alina V. KUPTOLOVA (Saint-Petersburg), Namik K. KURBANOV (Moscow), Nina A. KUROVSKAYA (Moscow), Mikhail I. KUZMIN (Irkutsk), Alexander V. LALOMOV (Moscow), Felix A. LETNIKOV (Irkutsk), Alexander P. LIKHACHEV (Moscow), Vladimir M. LOBAEV (Saint-Petersburg), Konstantin V. LOBANOVA (Moscow), Vladimir I. LUKASHOV (Moscow), Saima M. MAKHUMUTOVA (Moscow), Victor I. MALKOVSKY (Moscow), Evgeny I. MEDVEDEV (Vladivostok), Igor F. MIGACHEV (Moscow), Anatoly G. MIGACHEV (Ulan-Ude), Yury B. MIRONOV (Saint-Petersburg), Felix P. MITROFANOV (Apatity), Alexander N. MITROKHIN (Vladivostok), Valentin G. MOISEENKO (Blagoveshchensk), Gleb V. MORALEV (Moscow), Vasily N. NASEDKIN (Moscow), Vladimir B. NAUMOV (Moscow), Georgy B. NAUMOV (Moscow), Eugeny A. NAUMOV (Novosibirsk), Victor M. NECHEUKHIN (Ekaterinburg), Alexander I. NEPOMNYASHCHIKH (Irkutsk), Marina V. NESTEROVA (Moscow), Petr L. NEVOLIN (Vladivostok), Petr A. NEVOLKO (Novosibirsk), Victor M. OKRUGIN (Petropavlovsk-Kamchatsky), Alexander A. OREKHOV (Vladivostok), Dmitry A. ORSOE (Ulan-Ude), Vera A. PAKHOMOVA (Vladivostok), Alfred B. PAVLOVSKY (Moscow), Alexander A. PEK (Moscow), Alexey N. PERTSEV (Moscow), Oleg V. PETROV (Saint-Petersburg), Vladimir V. PETROV (Saint-Petersburg), Olga Yu. PLOTINSKAYA (Moscow), Laura P. PLUSNINA (Vladivostok), Eugeny V. PLYUSHCHEV (Saint-Petersburg), Valentin T. POKALOV (Moscow), Eugeny V. POLYANSKY (Aleksandrov), Victor S. POPOV (Moscow), Vsevolod Yu. PROKOFIEV (Moscow), Alexey L. PSHENITSYN (Moscow), Alexander F. REDKIN (Chernogolovka), Sergey P. ROEV (Yakutsk), Larisa I. ROGULINA (Blagoveshchensk), Georgy V. RUCHKIN (Moscow), Vyacheslav E. RUDENKO (Saint-Petersburg), Dmitriy V. RUNDKVIST (Moscow), Igor D. RYABCHIKOV (Moscow), Boris N. RYZHENKO (Moscow), Yury G. SAFONOV (Moscow), Vladimir G. SAKHNO (Vladivostok), Natalia E. SAVVA (Magadan), Grigory R. SAYADYAN (Vladivostok), Vladimir N. SAZONOVA (Ekaterinburg), Boris I. SEMENYAK (Vladivostok), Leonid V. SEROV (Saint-Petersburg), Vasily G. SHAKHTYROY (Magadan), Eugeny V. SHARKOV (Moscow), Vitaly V. SHATO (Saint-Petersburg), Vladimir I. SHPIKERMAN (Saint-Petersburg), Anatoly A. SIDOROV (Moscow), Nikolay S. SKRIPCHENKO (Novocherkassk), Olga K. SMIRNOVA (Ulan-Ude), Anatoly P. SOROKIN (Blagoveshchensk), Ernst M. SPIRIDONOV (Moscow), Alexander M. SPIRIDONOV (Irkutsk), Victor I. STAROSTIN (Moscow), Vitaly A. STEPANOVA (Petropavlovsk-Kamchatsky), Nikolay N. TARASOV (Moscow), Andrey V. TKADEV (Moscow), Irina G. TRETYAKOVA (Novosibirsk), Stanislav I. TURCHENKO (Saint-Petersburg), Igor M. VARENTSOV (Moscow), Vasily I. VELICHKIN (Moscow), Alexander A. VERCHEBA (Moscow), Ilya V. VIKENTYEV (Moscow), Andrey V. VISHNEVSKY (Novosibirsk), Sergey V. VOROSHEN (Magadan), Marina A. YUDOVSKAYA (Moscow), Victor V. ZAIYKOV (Miass), Alexey V. ZHDANOV (Moscow), Kim K. ZOLOEV (Ekaterinburg).

New members in 2012-2013:
1. Ivan F. GRADOVSKY – PhD, assistant professor on the faculty of Ore Deposits in the Moscow State Geological Prospecting University (MGRI-RSPGU, Moscow) - aa_ver@mail.ru

2. Alexei N. PERTSEV – Dr, head of Mineralogical laboratory in the Institute of Geology of Ore Deposits (IGEM, Moscow) - alexei_n@igem.ru

3. Andrey V. GORBATIKOV – PhD, leading research associate in the Schmidt Institute of Physics of the Earth (IPE, Moscow) - avgor70@mail.ru

4. Maria M. IVANCHENKO – trainee researcher in the Institute of Geology of Ore Deposits (IGEM, Moscow) - ivanchenko.marija@gmail.com.

Our losses. Four our colleagues unfortunately passed away:

1. Alexei A. MARAKUSHEV – academician, Moscow State University
2. Eduard G. KONNIKOV – Dr., deputy director of the Institute of Experimental Mineralogy (IEM, Chernogolovka), head of the laboratory
3. Vladimir V. SEREDIN – PhD, senior research associate in the Laboratory of ore deposits (IGEM, Moscow)
4. Elga G. ISHEVSKAYA – PhD., senior research associate in the All-Russian Institute of Mineral Raw Materials (VIMS, Moscow)

5.5.4 Selected publications


4. Chugaev A.V., Bortnikov N.S., Gorelikova N.V., Baranova A.N., Gonevchuk VG, Korostelev P.G. Age of tin ore from the Solnechnoe quartz-tourmaline-cassiterite deposit,
the Khabarovsk krai, Russia from the results of Rb-Sr dating of quartz and adularia // Geology of Ore Deposits. 2012. T. 54. № 3. C. 233-240


5.5.5 Forthcoming events

1. **20 March 2014** – workshop “Genetic model of Mo-U mineralisation in the Streltsovsky ore field (Transbaikalia, Russia) as a base for elaboration of prospecting criteria”. IGEM, Moscow

   E-mail: alexei.aleshin@gmail.com

2. **11-14 August 2014 - 12th International Platinum Symposium** will be held in Yekaterinburg, Urals, Russia, under the auspices of the IAGOD Commission on the Ore Deposits in Mafic-Ultramafic Rocks (CODMUR), RAS, and IGCP#592 project (UNESCO-IUGS). Sessions: (1) magma dynamics, cumulates and ore genesis, (2) PGE mineralization in mafic-ultramafic intrusions of Russia: geology and petrogenesis, (3) PGE-Cu-Ni sulphide-bearing ultramafic-mafic intrusions of the Noril'sk Province: insights into ore genesis and exploration, (4) Models and exploration methods for magmatic Ni-Cu-PGE sulphide and PGE-oxide deposits from around the World, (5) Ophiolites and Ural-Alaskan-type intrusions: traditional and innovative looks on the PGM formation, (6) PGE and Au through experiments, (7) new advances in the understanding of PGE mineralogy from magmatic to supergene environments, (8) open session.


4. **24-30 October 2014** - Russian scientific conference with international participation “**Precious metals, rare and radioactive elements in the ore-forming systems**” will be held in Sobolev Institute of geology and mineralogy (IGM SB RAS), Novosibirsk. Topics of the conference: (1) Geodynamic settings of deposits formation of precious metals, rare and radioactive elements; the role of the plume magmatism, (2) Precious metals, rare and radioactive elements in endogenous processes, (3) Precious metals, rare and radioactive elements in exogenous processes, (4) The role of micro- and nano-scale components in ore-forming processes, (5) Geochemistry of precious metals, rare and radioactive elements in carbonaceous ore-forming systems, (6) Modern processes of deposits formation of precious metals, rare and radioactive elements, (7) The role of microorganisms in the concentration of precious metals, rare and radioactive elements, (8) Problems of estimation and development of technogenic deposits, (9) Problems of training, (10) Modeling and GIS-technologies in the study and evaluation of deposits of noble, rare and radioactive elements.


5.6 **Report of IAGOD NATIONAL GROUP OF MONGOLIA for 2012-2013**

Chaitwoman: 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).
B. Batkhishig (Secretary, Mongolian University of Science & Technology) E-mail: bayarkhishig@yahoo.com, J. Lkhamsuren (Museum of Geology and Mineral resources, 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), B. Delgertsogt (Geological Information Center), B. Munkhtsengel (Dept. of Geology, Mongolian University of Science & Technology), Sunjidmaa (Mineral Resource Authority of Mongolia), M. Todbileg (Zoloton Ltd.), D. Sharkhuukhen (M& Dimond Ltd.), D. Altanhuyag (Ministry of Mining, Mongolia), A. Gotovsuren (Entree Gold. Inc), O. Chuluun (Mineral Resource Authority of Mongolia), D. Bold-Erdene (MineInfo Ltd.), H. Gantumur (Authority of Mongolia), Sambuu Oyungerel (Dept. of Geology, Mongolian University of Science & Technology), G. Ukhnaa (Dept. of Mineral Exploration, Mongolian University of Science & Technology), H. Enkhtuvshin (Erdenyn Erel LLC.), S. Oyungerel (Dept. of Geology and Mineralogy, National University of Mongolia), D. Dorjgotov (Dept. of Geology and Mineralogy, National University of Mongolia), L. Jargal (Dept. of Geology and Mineralogy, National University of Mongolia), Yo. Majigsuren (Museum of Geology and Mineral Resources, Mongolian University of Science & Technology), S. Myagmarsuren (Oyu Tolgoi LLC), S. Jargalan (Dept. of Mineral Exploration, Mongolian University of Science & Technology), Battseren Soyolmaa (Dept. of Geology, Mongolian University of Science & Technology), Sanjsuren Oyunbat (Geo-Info Co. Ltd., Mongolia), Namsraijav Baatar (Ministry of Mining, Mongolia, Naidansuren Tungalag, Institute of Geology & Mineral Resources, Mongolian Academy of Sciences, Renchin Oyunchimeg, (Oyu Tolgoi LLC).

New members: U. Burenjargal (Dept. of Geology, Mongolian University of Science & Technology) G. Chmedtseren (Dept. of Geology, Mongolian University of Science & Technology), M. Badamtstetseg (Dept. of Geology, Mongolian University of Science & Technology), B. Amarjargal (PhD student, Institute of Geology and Geophysics, Chinese Academy of Sciences), T. Khasmaral (PhD student, Institute of Geology and

Presentation in conference of Finland-Mongolian joint project in Central Geological Laboratory
Rare earth-bearing alkaline complexes in Mongolia (O. Gerel & B. Munkhtsengel)

In Akita University, Japan, Akita University Leading Program 2013 International Workshop’ Latest movement of resource development technology and challenging next-generation mining development”
Large porphyry type deposits Cu-Mo, Cu-Au, Mo in Mongolia, Akita University, 2013-9-25 (O. Gerel)

Lecture: Mineral deposits in Mongolia Akita University, 2013-9-24 (O. Gerel)

Lectures for engineers and consultant engineers: O. Gerel, B. Munkhtsengel – “Granitoid magmatism and metallogeny” 20 hours (20-2-2013; 30-3-2013; 12-4-2013; 16-10-2013; 7-1-2014)

Few publications:

For CM 2013 Program, abstracts and field excursion guide published. (O. Gerel, B. Munkhtsengel, A. Amar-Amgalan, J. Kynicky and A. Chakhmouradian, 69p.)


Three members passed exams for Consulting Engineer diploma in 2012-2013( S. Oyungerel, O. Gerel, D. Bat-Ulzii)

5.7 Report of the Kyrgyz National IAGOD Group for 2012-2013

The main events in activity of Kyrgyz IAGOD group in 2012-2013 were:

Conference and international projects participation in 2012-2013

IAGOD members take part with oral and poster presentation:


Participation in projects:


2. International agreement on cooperation between the Institute of Geology and the National Academy of Sciences Center of Mineral Resources, Institute of
Selected publications


6. Ivleva E., Pak N. Rare earth mineralization in carbonatites (Kyrgyzstan)// "Izvestia Akademii Nauk" (News of the Academy of Sciences), Kazakhstan, Geological Series, 2013, # 6.


Current list of members of the Kyrgyzstan IAGOD National Group (17 members):

Aitmatova Djamila (GIDI),
Bakirov Apas (IG, NAS),
Bektemirova Tursunay (IG, NAS)
Djenchuraeva Alexandra (SAG&MR),
Djenchuraeva Rosalia (IG, NAS),
Kabaev, Omorkul (MRI),
Maksumova, Rena (IG NAS),
Malyukova, Nataly (KRSU),
Mombekov Chingiz (IG, NAS)
Nikonov Valentin (SAG&MR),
Pak Nikolay (IG NAS),
Shamshyev Orunbay (OTU),
Savchenko Gennady (SAG&MR),
Usmanov Iltyzar (IG NAS),
Zhaanbaeva Aizat (IG, NAS)

New members (2013): postgraduate students of IG, NAS:
Dzhumagulov Ulan (IG, NAS)
Asilbekov Kyaz (IG, NAS)

Explanations: PRMI- Geomechanics and Interior Development Inst., NAS; IG NAS– Institute of Geology National Academy of Sciences, Bishkek; SAG&MR – State Agency on Geology and Mineral Resources of Kyrgyz Republic; MRI – Mineral Resources Inst., Bishkek; KRSU– Kyrgyz-Russian Slavic University, Bishkek;

E-mail addresses of Kyrgyz Group IAGOD Members:
Aitmatova Djamila - adamila@yandex.ru
Asilbekov Kyaz – asilbekov_90@mail.ru;
Bakirov Apas – Apasgeol@aknet.kg;
Dzhumagulov Ulan – dzhumgeo@gmail.com
Malyukova, Nataly - nnm333@mail.ru;
Nikonorov, Valentin - nikonorov99@mail.ru;
Pak, Nikolay - paknikolay50@mail.ru
Usmanov Iltizar iltizar@yandex.ru;
Zhaanbaeva Aizat – aizat_di@mail.ru;

Contributed 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 2680; Fax. 996 312 68 00 47; .E-mail: rosalia@list.ru

The Russian Far East IAGOD Group being a part of the National IAGOD Group of Russian Federation consists of 19 members.
Chashchin A.A, Gonevchuk G.A., Gonevchuk V.G., Gvozdev V.I., Ignatiev A.V.,
Ivanov V.V., Kasatkin S.A., Khanchuk A.I., Khomich V.G., Korostelev P.G,
Medvedev E.I., Mitrokhin A.N., Nevolin P.L., Orekhov A.A., Pakhomova V.A.,
There are no changes from the previous list of members in 2010-2012.

Leaders:
The chairman of the Russian Far East IAGOD Group is Academician A.I. Khanchuk. director@fegi.ru
The secretary of this Group is G.A.Gonevchuk gonevchuk@fegi.ru

Events:
The main events in 2012 activity of the Russian Far East IAGOD group:
Participation in conferences.
1. Modern Problems of Geology, Geochemistry and Geocology of the Far East of Russia. The Forth All-Russian conference of young scientists. Vladivostok, 27 August
- 5 September 2012, Far East Geological Institute of FEB RAS.


3. The Forth Biennial Conference on Asian Current Research on Fluid Inclusions ACROFI IV, Australia, 10-12 August 2012.

Karas O.A., Pakhomova V.A. Datolite mineralization of the Dalnegorsk borosilicate deposit: formation conditions according to fluid inclusion data. Pp. 42-44

4. Participation in International projects:

1. International project «Genesis of world class skarn deposits in Sikhote Alin Fold Belt, Far East (Russia) and Aravalli craton, Rajasthan (India)». The leader of the project: Academician Khanchuk A.I.. Participants: Gvozdev V.I., Pakhomova V.A., Orekhov A.A.

5. Many members of the Russian Far East IAGOD group took part in the projects of the Russian Basic Research Foundation studying the ore deposits genesis.
The main events in 2013 activity of the Russian Far East IAGOD group:

Participation in conferences.

1. International conference Gold Fennoscandian shield. 1-5 October, 2013. Institute of Geology of Karelian Research Centre of RAS, Petrozavodsk.


   Participants of this conference were: Gvozdev V.I., Ignatiev A.V., Ivanov V.V., Kasatkin S.A., Khanchuk A.I., Mitrokhin A.N., Nevolin P.L.

5. Participation in International projects:
   (1). International project «Genesis of world class skarn deposits in Sikhote Alin Fold Belt, Far East (Russia) and Aravalli craton, Rajasthan (India)». The leader of the project: Academician Khanchuk A.I. Participants: Gvozdev V.I., Pakhomova V.A., Orekhov A.A.
   (2). Agreement for scientific cooperation between Institute of Geology and Geophysics, Chinese Academy of Sciences, and Far East Geological Institute, Far Eastern Branch of Russian Academy of Sciences (2013-2018). Khanchuk A.I.,
Molchanov V.P. Main subject of investigations stated as: Evolution of geological structures and ore mineralization in the Western Pacific continental margin, specifically in the Russian Far East and the Northeast China.

Far East Geological Institute Far Eastern Branch  Russian Academy of Sciences
Alexander I. Khanchuk Academician Director FEGI FEB RAS
Institute of Geology and Geophysics Chinese Academy of Sciences
Wu Fuyuan, Professor Deputy Director IGG CAS

6. Many members of the Russian Far East IAGOD group took part in the projects of the Russian Basic Research Foundation studying the ore deposits genesis.

7. Selected publications

Chugayev A.V., Bortnikov N.S., Gonevchuk V.G., Gorelikova N.V., Korostelev P.G., Baranova A.N. The ore age of the Solnechnoe quartz-tourmaline-cassiterite deposit from quartz and adularia Rb-Sr dating results (Khabarovsk territory, Russia).


Krylova T.L., Pandian M.S., Bortnikov N.S., Vijay Anand S., Gorelikova N.V., Gonevchuk V. G. Korostelev P.G. The tungsten and tin-tungsten deposits at Degan


Pp.140-150.


5.9 Report for the IAGOD and activity of the CODMUR (The Commission on Ore Deposits in Mafic and Ultramafic Rocks)

The Commission on Ore Deposits in Mafic and Ultramafic Rocks (CODMUR) is a working group focused on understanding the processes that control the distribution and formation of ore deposits in mafic and ultramafic rocks. Traditionally the group has focused on the genesis of Ni-Cu-PGE mineralization; both sulfide-rich and sulfide-poor types. Interest in chromite deposits and Fe-Ti-V deposits in mafic-ultramafic rocks has increased and many studies are being directed at the origin of oxide-rich mineralization in such rock types. Field, analytical/geochemical, theoretical/computational, and experimental studies are in progress to help further our understanding of how economic concentrations of metals form in mafic and ultramafic rocks. Researchers who study other types of deposits that may occur in mafic to ultramafic rocks (e.g. talc, magnesite, etc.) are invited to join the Commission.

CODMUR has been engaged over the past decades into the following collaborative research projects (partially jointly with IGCP projects):

- PGE mineralization in many areas of the Bushveld Complex (chromite–related and unrelated); PGE mineralization and mineralogy of the Great Dyke; PGEs in MORBS; 3-D analysis of ores and host rocks using X-ray computed tomography; Mineralization in the Skaergaard complex and other intrusions in East Greenland; Ni-Cu-PGE mineralization in the Midcontinent of North America; Ni-Cu-PGE mineralization in Ural-Alaskan intrusions; Ni-Cu-PGE and Fe-Ti-V deposits in China (Emeishan province, Inner Mongolia and others); Ni-Cu-PGE mineralization associated with chromitites in India; Studies of the Deccan Traps in India and potential for Ni-Cu-PGE mineralized intrusions; The role of semi-metals in the
genesis of PGE deposits; Ni-Cu-PGE mineralization in intrusions in the Precambrian of Australia; Unconventional Ni-sulfide deposits; PGE-Ni-Cu deposits in the Russian Arctic; Ni-Cu-PGE deposits of Sudbury, Canada; Ni-Cu-PGE deposits in the Canadian Archean; PGE mineralization in ophiolites; Ni-Cu-PGE mineralization in Brazil.

Forthcoming activities: XII International Pt symposium to be held in Russia in August 2014 (details see IAGOD website); The International Ni-symposium is planned for Perth in 2016; The 2018 IPS is tentatively planned for Brazil.

This year, the 23rd Annual V. M. Goldschmidt Conference was held at Florence, Italy from 25th to 30th August. The Goldschmidt Conference™ is the premiere international conference on geochemistry. The Goldschmidt Conference was organized and sponsored by the European Association of Geochemistry, the Geochemical Society (USA) and the Geochemical Society of Japan. There were 24 main themes in the conference along with 5 Plenary Lectures. The different subjects that were covered under these themes include Cosmochemistry and Planet Formation, Early Earth, Deep Earth, Mantle Geochemistry, Continental Crust, Subduction, Melts-glasses-magmas: From properties to processes, Evolution of Earth’s Environment, Interfaces from the nano to macro scales, Volcanoes and Hazards, Earth Resources: Energy-Ores: Their Construction, Destruction and Politics, Climate Change, Atmospheric Aerosol in Air Quality and Climate: the Science and Solutions, Weathering, Climate, Tectonics and Surface Processes, Oceans and Atmosphere, Anthropogenic Impacts on Pollutant Dynamics, Biogeochemistry: Activities, Mechanisms and Cycles, Frontiers in Analytical Techniques, Frontiers in Computational Geochemistry, The Cutting Edge in Mineralogy and Mineral Physics, Hydrogeochemistry and General Sessions. There were in total 209 numbers of Sessions under the various themes in the conference. A total of 4100 participants were attended the conference from more than hundred countries across the globe. The Plenary Lectures in the conference were given by Richard Carlson (‘Making Earth’), Frances Albarède (‘Isotopes of Disease’), Paolo Gasparini (‘Natural hazards and Scientific Advice: Interactions Among Scientists, Decision Makers and the Public’),
There were many new results presented in the conference, which were based on high impact research. Among these the Special Session 13f (‘Crust-Mantle Evolution and Changing Patterns of Ore Deposits in the Early Earth’), was one of the scientific activities of the Commission on Ore Deposits in Mafic and Ultramafic Rocks (CODMUR) under the International Association on the Genesis of Ore Deposits (IAGOD). This particular session has been convened and chaired by Dr. Sisir K. Mondal (Department of Geological Sciences, Jadavpur University, India) and Professor Bill Griffin (ARC Centre of Excellence for Core to Crust Fluid Systems and GEMOC, Macquarie University, Australia). The session highlighted the changing patterns of different ore deposits in the early Earth. This particular scientific aspect is very much relevant with respect to fundamental issues in the Earth sciences as well as for the exploration group. There were at least 24 submissions in this session. This particular session became a very high-powered session and promoted couple of most significant keynote and invited speakers such as Prof. Graham Begg (Minerals Targeting International, Australia and ARC Centre of Excellence for Core to Crust Fluid Systems and GEMOC, Macquarie University, Australia), Prof. Shoji Arai (Kanazawa University, Japan), Prof. Christoph A. Heinrich (ETH Zurich, Switzerland) and Prof. Suzanne Y. O’Reilly (CCFS/GEMOC, Macquarie University, Australia). This session highlighted the issues related to metal deposits in Earth’s geological past that shows an uneven temporal distribution in the early Earth.

The participants of the Session 13f have received great opportunity to present and defend their research on an international forum. The interactions with fellow researchers, students and eminent scientists helped in the exchange of ideas and also to improve the science through their valuable feedback. The special Session 13f has brought together erudite scientists from different countries and gave the participants an opportunity to make contacts and future collaborations so that they can do quality work and make their research to reach a global standard.
5.10 Report of Working Group on Critical Metals (WGCM)

Minutes of Inaugural Meeting, Uppsala, 12th August 2013, 16.40-17.00

Attendance: Jens Andersen (Chairman), Reimar Seltmann (Vice Chairman), Sam Broom-Fendley, Axel Müller, Beth Simons, Dora Kavecsânszki, Johann Raith, Henrik Friis, K. Sullivan, Paul Bédard, Alexanche Neron, Yasushi Watanabe, Christian Marignac, Michel Cuney, Michel Cathelineau, Fernando Noronha, Erik Jonsson, Gus Gunn, Thomas Oberthür, Charlie Moon, Karin Högdahl, Petya Atanasova, John Chapman, Magnus Leijd

Apologies: Jindřich Kynický (Secretary), Yanbo Cheng, (Regional Leader China and Asia/Pacific), Krister Sundblad

(1). Introduction to the WGCM

The Chairman gave the following introduction to the working group:

Rationale

There is no other coordinated group on critical metals under an international geological learned society

Critical Metals

Metals that are perceived to have high supply risks have recently been called "critical metals". The exact list of metals that are considered to be critical varies, but typically include indium, gallium, germanium, selenium, tellurium, neodymium, dysprosium, lithium, vanadium, tin, tungsten, molybdenum, rhenium, tantalum, niobium, cobalt and the PGE.

Mission

The mission of the Working Group for Critical Metals is to promote and coordinate research into the mechanisms that lead to economic concentration of critical metals. The activities of the group will be coordinated with other IAGOD groups such as CODMUR (PGE, Ni, Cu, Co) and the WGTT (Sn, W and associated rare metals).

(2). Membership registry
The Chairman reported that the group currently has 48 subscribed members to the Critical Metals email list, which serves as membership registry. Delegates attending the business meeting were given the opportunity to register, which led to a further 18 members. Further interest was received from another person who was not able to attend the meeting.

(3). Election of officers
Jens Andersen, Chairman
Reimar Seltmann, Vice-chairman
Jindřich Kynický, Secretary
Yanbo Cheng, Regional Leader, China and Asia/Pacific
P. V. Sunder Raju, Regional Leader, Indian Subcontinent
Further regional leaders and commodity experts will be sought in the coming year.

(4). Report on 2013 activities
Establishment of working group
Publication on IAGOD website
Development of CRITICAL-METALS email distribution list
3rd – 5th July 2013: Critical metals meeting, Mongolia
Co-sponsored by IAGOD - WGCM

(5). Activities for 2014
19th-21st March: North Atlantic Craton conference.
University of St Andrews, Scotland
12th-18th July: Eurogranites 2014, South West England
19th-22nd August: 14th Quadrennial IAGOD Symposium, Kunming, China
Special session: Granite-related rare metal, Sn, W and Bi deposits
Field trip: Polymetallic tin deposits and related intrusions, Gejiu, SW Yunnan Province

(6). Budget (not presented at meeting)
The group has no financial affairs.
Through the WGCM, the Critical Metals meeting in Mongolia received direct and indirect financial assistance from the IAGOD Council to support advertising and
organisation.

Sponsorship has been applied for toward the listed 2014 activities from IAGOD, SGA and the Applied Mineralogy Group of the Mineralogical Society. Further sponsorship will be sought from SEG.

(7). Any other business

No other business

Update of 18 November 2013

A. Inaugural meeting at SGA.

The group had its inaugural meeting during the SGA in Uppsala in August. We were pleased with the high level of research that currently is carried out on critical metals, and to see great interest in the working group at the meeting. The meeting added another 19 new members to the group, which now has 66 members in total. I will circulate the minutes of the meeting in a separate email.

B. Changes to the WGCM committee.

Regrettably Jindrich Kynicky has decided to stand down as secretary of the group. Yanbo Cheng has offered to serve as secretary with immediate effect. We wish Jindrich all the best in his future activities and hope that he will continue as an ordinary member of the group.

C. Future WGCM activities (For detailed meeting information see elsewhere in this Newsletter).

a. 19th-21st Mar 2014. THE NORTH ATLANTIC CRATON CONFERENCE.

It would be great to see a good representation of WGCM related activities at this meeting.


The Eurogranites field meeting will be held in SW England with a particular focus on granite-related mineralisation.

E. 19th-22nd Aug 2014. THE 14TH QUADRENNIAL IAGOD SYMPOSIUM, KUNMING, CHINA.

The WGCM sponsors the session: “Critical metals in ore-forming systems: New
perspectives on ore formation, exploration and extraction”. Conveners are Jens Andersen, Yasushi Watanabe, Reimar Seltmann and Yanbo Cheng. Keynote speakers will be Dave Sinclair, Anthony Williams-Jones and Yuling Xie. An associated field trip is planned to polymetallic tin deposits and related intrusions at Gejiu, SW Yunnan Province.

F. Regional activities relating to Critical Metals research.
It would be good if group members can share activities within their region/country on this list.

UK. The Natural Environment Research Council (NERC) is currently supporting 13 projects that are into building research consortia on critical metals. The funding is expected to lead to two or three large-scale projects scheduled to start during the Autumn of 2014. Further information can be found on: http://www.nerc.ac.uk/research/programmes/minerals/, which includes a link to the current projects. If you wish to engage with individual projects, please contact the principal investigators.

The long awaited "Critical Metals Handbook” edited by Gus Gunn (ISBN-13: 978-0470671719) is available for pre-order from many online book retailers. We like to take the opportunity to congratulate Gus with his efforts in putting this book together.

The British Geological Survey is currently carrying out a high resolution airborne geophysical survey of SW England through the Tellus SW project. This survey encompasses the granite-related ore district of SW England as well as critical parts of the surrounding area (including parts of Exmoor). Further details can be found at http://www.tellusgb.ac.uk/.

As stated before, please use this forum for any issues related to critical metals research.

(Jens Andersen, Chairman WGCM; Senior lecturer, Camborne School of Mines, University of Exeter, Penryn Campus, Tremough Penryn, TR10 9EZ UNITED KINGDOM, http://www.exeter.ac.uk/csm)
5.11 Report of the INTERNATIONAL URANIUM GROUP (IUG) for 2012-2013

5.11.1 Leadership:

<table>
<thead>
<tr>
<th>Chairman</th>
<th>CNRS Research Director</th>
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<tbody>
<tr>
<td>Professor Michel CUNEY</td>
<td>CREGU &amp; UMR G2R 7566</td>
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<tr>
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<td>Geologie et Gestion des</td>
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<td>Scientifique Victor Grignard – Entree 3B</td>
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<td><a href="http://www.g2r.uhp-nancy.fr">http://www.g2r.uhp-nancy.fr</a>;</td>
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<tr>
<td></td>
<td>e-mail: <a href="mailto:Michel.Cuney@g2r.uhp-nancy.fr">Michel.Cuney@g2r.uhp-nancy.fr</a>;</td>
</tr>
<tr>
<td></td>
<td>tel.: 33(0)3 83 68 47 09;</td>
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<td></td>
<td>fax: 33(0)3 83 68 47 01</td>
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<tr>
<th>Co-Chairman</th>
<th>Head of the Uranium Deposits Geology and Radioecology Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Yuri MIRONOV</td>
<td>A.P.Karpinsky Russian Geological Research Institute (VSEGEI), 74, Sredny pr., 199106, Saint-Petersburg, Russia</td>
</tr>
<tr>
<td></td>
<td>Internet: <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>
</tr>
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<table>
<thead>
<tr>
<th>Secretary</th>
<th>Leading Research Associate of the Uranium Deposits Geology and Radioecology Department</th>
</tr>
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<tbody>
<tr>
<td>Dr. Elena AFANASYEVA</td>
<td>A.P.Karpinsky Russian Geological Research Institute</td>
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<td>Internet: <a href="http://vsegei.com/uranium.html">http://vsegei.com/uranium.html</a>;</td>
</tr>
</tbody>
</table>
5.11.2 Members (by 2012):

1. Prof. David LENTZ (University of NEW Brunswick, Canada) – dlentz@unb.ca;
2. Prof. Reimar SELTMANN (NHM, London, UK) – r.seltmann@nhm.ac.uk;
3. Prof. Vasily VELICHKIN (IGEM RAS, Moscow, Russia) – vel@igem.ru;
4. Prof. Irvine ANNESLEY (Jnr Resources Inc, Canada) – inrirvine@sasktel.net;
5. Dr. Alexei ALESHIN (IGEM RAS, Moscow) – alexei.aleshin@gmail.com;
6. Dr. Elena AFANASIEVA (VSEGEI, Saint-Petersburg, Russia) – Elena_Afanasieva@vsegei.ru;
7. Dr. Alla DOLGOPOLOVA (NHM, London, UK) – allad@nhm.ac.uk;
8. Dr. Vladimir DOLGOPOLOV (Almaty, Kazakhstan) – Vladimirdolgopolov38@gmail.com;
9. Dr. Elga ISHEVSKAYA (VIMS, Moscow, Russia) – aleshin@igem.ru;
10. Dr. Tatiana KRYLOVA (IGEM RAS, Moscow, Russia) – ktl@igem.ru;
11. Dr. Victor MALKOFSKY (IGEM RAS, Moscow, Russia) – malk@igem.ru;
12. Dr. Nicolay TARASOV (IGEM RAS, Moscow, Russia) – tm@igem.ru;
13. Dr. Alexander REDKIN (GEOKhI RAS, Moscow, Russia) – redkin@iem.ac;
14. Dr. Robert BOWELL (SRK Consulting, Cardiff, UK) – rbowell@srk.co.uk;
15. Dr. Jarda DOSTAL (Saint Mary’s University, Halifax, Canada) – j.dostal@ns.sympatico.ca;
16. Dr. David QUIRT (AREVA Resources, Canada) – David.Quirt@areva.ca;
17. Dr. Thomas SEIFERT (TUBAF, Freiberg, Germany) – Thomas.seifert@mineral.tu-freiberg.de;
18. Dr. Reg OLSON (Canada) – polson@xplornet.com;
19. Dr. Leonid SEROV (VSEGEI, Saint-Petersburg, Russia) – serov.box@gmail.com;
20. Mr. Ilya DMITRIEVT (VSEGEI, Saint-Petersburg, Russia) – EliasDmitriev@gmail.com;
21. Mr. Martin FAIRCLOUGH (PIRSA, Australia) – Martin.Fairclough@sa.gov.au;
22. Mr. Alexei KULYOV-NEGRUTSA (VSEGEI, Saint-Petersburg, Russia) – alnu_negrutsa@geologist.com;
23. Mr. Yaroslav EMELIN – trainee researcher (IGEM RAS, Moscow) – ason198925@gmail.com;
24. Mr. Victor KOMAROV – junior research associate (IGEM RAS, Moscow) – ras238@gmail.com;
25. Mr. Vladimir KOMAROV – junior research associate (IGEM RAS, Moscow) – kwowin@gmail.com;

5.11.3 New members (2012-2013):

26. Prof. Alexander VERCHEBA (MSPGA, Moscow, Russia) – aa_ver@mail.ru;
27. Prof. Petr IGNATOV (MSPGA, Moscow, Russia) – pignatov@gmail.com;
28. Dr. Vyatcheslav GOLUBEV (IGEM RAS, Moscow, Russia) – golub238@gmail.com;
29. Dr. Olga DOINIKOVA (IGEM RAS, Moscow, Russia) – doa@igem.ru;
30. Dr. Alexei ZHDANOV (MSPGA, Moscow, Russia) - geo-mpi@rambler.ru;
31. Mr. Yury DYMKOV (VNIIKhT, Moscow, Russia) – alexei.aleshin@gmail.com;
32. Ms. Maria IVANCHENKO – trainee researcher (IGEM RAS, Moscow) - ivanchenko.marija@gmail.com;
33. Ms. Marina NESTEROVA (IGEM RAS, Moscow, Russia) - nestmv@igem.ru;
34. Ms. Alina KUPTSOVA (SPSU, Saint-Petersburg, Russia) - alina-kuptsova@yandex.ru;
35. Mr. Alexei PSHENITSYN (MSPGA, Moscow, Russia) - northzzz@mail.ru;

5.11.4 Main events:

34th International Geological Congress (Brisbane, Queensland, Australia, 5-10 Aug. 2012):
1. ALESHIN A., VELICHKIN V., GORBATIKOV A., and STEPANOVA M. Revealing of deep structures of the Streltsovsky ore field (Eastern Transbaikalia, Russia) by microseismic sounding for elaboration of a genetic model of giant Mo-U deposits
2. ANNESLEY I. Use of Pearce element ratios to vector to basement-hosted uranium mineralization: methodology, pitfalls, and examples from the Athabasca Basin, Canada
4. HANLEY J., GRAY T., DOSTAL J., and GUILLONG M. Magmatic enrichment of uranium, thorium, and rare earth elements in Late Paleozoic rhyolites of southern New Brunswick, Canada: evidence from silicate melt inclusions
5. SEIFERT T, ALESHIN A, VELICHKIN V. Comparison of giant uranium provinces in the internal Variscides (Saxony, Thuringia) and Streltsovsky caldera (Siberia) — indications for mantle-derived U mineralization
6. WILSON T., MAUGER A., GORDON G., BOSMAN S., KEELING J., and FAIRCLOUGH M. Investigations into the potential for perched unconformity-related uranium mineralisation in the Cariewerloo Basin, South Australia

12th SGA meeting, Uppsala (12-15 August 2013):
S3.13 Uranium and thorium deposits; chaired by Michel Cuney and Peter Sorjonen Ward
The session on uranium and thorium deposits was intended to bring together geoscientists who share an interest in energy resources. The session showcased a broad spectrum of new and applied developments and research outputs.

Technical Meeting on the “Metasomatite Uranium Occurrences and Deposits” (Vienna, Austria, IAEA, 17-19 June 2013) chaired by Michel Cuney
Metasomatite deposits remain one of the least understood types due to the complexities in geological, geochemical and structural control in the origin and nature. Exploration for this type of deposit may require better understanding of nature and controls, and the use of specialized techniques. Given the potential for discovery of hitherto unknown deposits of this kind in many countries, better understanding of this deposit type will be helpful in assuring low-cost uranium supplies for the growing nuclear energy programme.
The purpose of the Technical Meeting was to provide a forum for experts from Member States to exchange information on the latest developments in geology, geochemistry, mineralogy, structural controls, exploration case studies, and resource evaluation of metasomatite uranium deposits. Additionally, recent research in environmental studies, safety and social licensing aspects related to development of this type of deposits have been discussed.

Mineralogical Association of Canada Short Course,
"Uranium from the cradle to the Grave" (Winnipeg, Manitoba, Canada 20-21 May 2013)
organized by P. C. BURNS and G.E. SIGMON

3rd International Symposium “Uranium: Geology, Resources, Production”
VIMS, Moscow (May 29-30, 2013)
1. MIRONOV Yu., KARPUNIN A. Metallogeny of uranium of Russia.
2. MIRONOV Yu.B., BUZOVKIN C.V. Uranium of the south-east Asian.
7. DOINIKOVA O., TARASOV N. Uranium mineralisation of the Khiagda ore field.
8. PILIPENKO G., VERCHEBA A. A set of innovative decisions making gold-uranium ores of the Elkon horst attractive for effective development.

5.11.5 Other events:
81st International Exhibition “Prospectors and Developers Association of Canada (PDAC, 2013), Toronto, 03-06 March 2013
AFANASYEVA E.N. Report on the latest achievements of various uranium companies involved in the study, exploration and extraction of uranium deposits in different parts of the World, such as: FORUM Uranium Corp, PUREPOINT, CanAlaska Uranium Ltd., Azimut Exploration, Alderhot Resources Ltd., Mawson Resources Ltd., Uranium Energy Corp (NYSE MKT:UEC), UEX Corporation, Ur-Energy USA Inc., Uranerz Energy Corporation, Toro Energy Limited, European Uranium Resources Ltd., Cameco and other.

International Russian-Chinese school. Seminar “Geology and Prospecting Methods of Uranium Deposits” in A.P.KARPNISKY RUSSIAN GEOLOGICAL RESEARCH INSTITUTE (VSEGEI), St-Petersburg, December 2012.
1. MIRONOV Yu.B. Uranium potential of Russia.
2. MIRONOV Yu.B. Uranium metallogeny of the Central Asia.
3. AFANASYEVA E. Space-temporal patterns of the uranium mineralization distribution in the shields structures (on the Baltic shield example).

International Russian-Vietnam seminar in VIETNAMESE SCIENTIFIC-RESEARCH INSTITUTE OF GEOLOGY AND MINERAL RESOURCES (VIGMR), December 2012.
International school-seminar in GEOLOGICAL SERVICE OF IRAN, July 2012.
MIRONOV Yu.B. Uranium deposits of the Alpine-Himalayan collision belt.
Meeting of the Scientific-methodical Council on geological-geophysical technologies of the RF Ministry of Natural Resources and Environmental Protection in FGUNP GEOLOGORAZVEDKA, St-Petersburg, 2012.
Organization of the International Russian-Vietnam school-seminar in A.P.KARPINSKY RUSSIAN GEOLOGICAL RESEARCH INSTITUTE (VSEGEI), St-Petersburg, Nov. 2013.
1. MIRONOV Yu.B. Uranium potential of Russia.
2. AFANASYEVA E.N. Formation and localization conditions of the Baltic Shield uranium deposits.
International Russian-Iran school-seminar in GEOLOGICAL SERVICE OF IRAN, Teheran, 01-04 March, 2013.
MIRONOV Yu.B. Metallogeny and prediction of the uranium deposits.

International Technical Meeting “Metasomatite uranium occurrences and deposits”,
IAEA Headquarters, Vienna, Austria, 17 – 19 June 2013.
MIRONOV Yu.B., AFANASYEVA E.N. Metasomatic uranium mineralization of the Baltic Shield.

International Conference “Gold of the Fennoscandian Shield”
Petrozavodsk, October, 2013.
AFANASYEVA E.N., MIRONOV Yu.B. Complex gold-uranium mineralization in the eastern Baltic Shield.

IVth International conference “Radioactivity in the human environment”,
Tomsk, 04-06 July 2013.
MIRONOV Yu.B. Types of the Alpine-Himalayan belt uranium deposits.

International Scientific-Methodical Conference “Development of V.I. Vernadsky ideas in mineralogy, geochemistry, and study of the commercial mineral deposits”.
St-Petersburg, 17-18 October 2013.
MIRONOV Yu.B. Uranium potential of Russia: History of the creation, resources and development directions.

5.11.6 SELECTED PUBLICATIONS in 2012-2013:


5.11.7 EVENTS SCHEDULED for 2014:


Reported in February 2014

Co-Chairman Yuri MIRONOV

Secretary Elena AFANASYEVA
6. Announcements of following activities

(1) IAGOD invites for the 14th Quadrennial IAGOD Symposium, which will be held in Kunming, the capital of Yunnan Province, Southwest China. The symposium will take place at the highly acclaimed Yunnan Convention Resort, from 19 to 22, August 2014. The 14th Quadrennial IAGOD Symposium will provide excellent opportunities to present and exchange knowledge on research on the genesis of ore deposits. Under the theme “Mineral Resources: Discovery and Utilization”, the symposium will cover all aspects of currently hot topics in economic geology that will lead to an enhanced understanding of the genesis of mineral deposits in continental settings, as well as to improved techniques for exploration, discovery, and utilization. There are nine post-conference field trips planned. These will be held in Yunnan, Guizhou, Jiangxi and Shandong provinces of China, as well as in Vietnam and Laos. There will be a variety of day tours available during the conference within Kunming city and nearby areas.

(2) IAGOD will co-sponsor the XII International Platinum Symposium, which will be held in Yekaterinburg, Urals, Russia, 11 - 14 August 2014, under the auspices of the IAGOD Commission on the Ore Deposits in Mafic-Ultramafic Rocks (CODMUR) and the Department of Earth Sciences of the Russian Academy of Sciences (DES RAS).

(3)
IAGOD is co-sponsor of the The North Atlantic Craton Conference 2014 in University of St Andrews, Scotland, UK, 20th-21st March 2014. This conference, on the mineral potential of the North Atlantic Craton (NAC) as a whole, is aimed
at initiating and furthering trans-Atlantic collaboration in understanding the Archaean cratonic controls on ore deposit formation through time. The Archaean high-grade gneiss terrain of the NAC stretches from Labrador, Canada, through Greenland and into NW Scotland, UK. Acceleration in exploration efforts for various commodities across this region, particularly in Greenland, has highlighted the potential of its mineral resources. Themes of the conferences include: 1. The geology and formation of the NAC; 2. Cratonic structure and regional controls on mineralisation; 3. Mantle metasomatism and influences on SCLM geochemistry; 4. Metallogenesis within the NAC; 5. Gold potential within the NAC; 6. Ni-Cu-PGE potential of the NAC; 7. New developments and discoveries in exploration; 8. Applied mineralogy; 9. Future exploration and potential for academia-industry collaboration.

(5) IAGOD is co-sponsor of the Field conference in SW England, 12-18 July 2014. For details see URL www.iagod.org


On the questions connected with the scientific Program of Conference, we ask you to address to: Prof. Vera V. Naumova, head of Computer Science Laboratory of the Far East Geological Institute FEB RAS, Vladivostok, naumova@fegi.ru

All your inquiries should be addressed to secretaries:
Ph.D. Irina S. Golubenko (participants from Russia), North-Eastern Complex Research Institute of FEB RAS, Magadan, golubenko@fegi.ru

Tatiana V. Bunaeva (foreign participants), Institute of Geochemistry of SB RAS, Irkutsk, tbunaeva@gmail.com

For information regarding visa support documents, please contact

Oxana Evdokimova, evdokimova@kscnet.ru Institute of Volcanology and Seismology FEB RAS, Foreign Department.
12th International Platinum Symposium

11-14 August 2014
Yekaterinburg, Urals, Russia

First Circular

http://12ips.uran.ru
Announcement and Invitation

Ore deposit geologists, mineralogists, geochemists, and metallurgists are invited to attend the 12th International Platinum Symposium (12th IPS) to be held in Yekaterinburg, Ural, Russia between 11 and 14 August 2014 under the auspices of the IAGOD Commission on the Ore Deposits in Matric-Ultramatic Rocks (CODMUR) and the Department of Earth Sciences of the Russian Academy of Sciences (OES RAS). Yekaterinburg (or Ekaterinburg) is the fourth largest city in Russia after Moscow, St.-Petersburg, and Novosibirsk, and the administrative center of the Sverdlovsk Region (Sverdlovsk Oblast in Russian). It is located in the middle of the Eurasian continent, close to the geographical border between Europe and Asia. Yekaterinburg is a big industrial, business, scientific and cultural center of Russia. It has a short but very interesting history of its foundation and development, related to the exploration and exploitation of economic mineral deposits of the Urals.

A Welcome from the Chairman of the Ural Branch of the Russian Academy of Sciences (RAS), Vice-President of RASK

As Chairman of the Ural Branch of the Russian Academy of Sciences (RAS), I have the pleasure and honor to invite scientists and officials of mining companies to participate in the XII International Platinum Symposium (12 IPS), which will be held for the first time in the Urals, where the world platinum industry has started its development. The Urals is not only the boundary separating the continents of Europe and Asia, but it is also a place that connects people from different continents, uniting them in the common Eurasian space. The unique geographical location of the Urals, its well-developed transportation infrastructure, and high level of social and economic development of the region make it attractive for investments and ambitious international projects, both in industry and science. The basis for this is the unique natural resources of the Urals exploited for over 300 years and still remaining the largest donor to the Russian industry.

The progress of mining, metallurgy, engineering and electronic industry in the Urals stimulated the development of science and the emergence of large scientific and research centers, universities and other higher education institutions here. Currently Yekaterinburg is one of the largest research centers in Russia, with the Ural Branch of RAS that has several dozens of research institutes in different fields of research. The Ural Branch includes six institutes, which carry out research in the field of the Earth sciences. One of them, the Institute of Geology and Geochemistry, UB RAS, is the organizer of the XII International Platinum Symposium. Suggested scientific sessions promise a stimulating scientific program of oral and poster presentations. A variety of field trips to the places, where many of us have never been before, also promises to attract many participants. I do anticipate that the time spent in the Urals and in Yekaterinburg will be 'formative' for you the period of new scientific contacts, ideas and plans for the future. I would like to thank the organizers of the 12th IPS for their work and look forward to meeting you in Yekaterinburg.

Valery Charushin, Vice-President of RAS
A Welcome from the Rector of the Ural Federal University

As Rector of the Ural Federal University named after the first President of Russia Boris N. Yeltsin, I am pleased to welcome participants of the XII International Platinum Symposium held on August 11th - 14th, 2014. This Symposium is a great event in the scientific world and provides nice opportunities for discussing the most important problems concerning the platinum-group elements, their geology, mineralogy, geochemistry, exploration, mining and technical applications. The Ural Federal University and the local organizing committee hope to create a friendly working atmosphere for a wide exchange of innovative scientific ideas and new research projects for all attendees, and a learning experience for young scientists. The Ural has always been one of the most industrially developed regions of Russia.

A lot of world-class ore deposits of different types are situated in the Urals. They are the base for the Ural metallurgical and engineering industry. The Ural Federal University teaches tens of thousands of students each year, and after graduation most of them become leaders in this business. For the participants of the XII International Platinum Symposium it will be interesting to learn that at the beginning of the XIX century the Urals became the biggest world producer of platinum and kept this position for more than 100 years. The first platinum placers were discovered in 1824 in the Central Urals and some of them are still exploited. The unique placers and small but famous ore platinum deposits are related to the so-called Ural Platinum Belt, the largest chain of mafic-ultramafic massifs that are situated in the Central and Northern Urals. You will get an opportunity to visit some masses, deposits and enterprises and to touch upon the real history of the Ural metallurgical and platinum industry development. We hope that you will enjoy your trip to the Urals and your stay in our city and the University, and traveling in the Urals.

Yours sincerely,
Victor Koksharov
Rector of the Ural Federal University
Venue

The 12th International Platinum Symposium will be held at the Institute of Humanities and Arts of the Boris Yeltsin Ural Federal University. The Ural Federal University is the largest university in the Urals, with an enrollment of about 50,000 students. It consists of several institutes and Research Centers, covering the most important fields in Engineering, Economic, and Social Sciences. The main building of the Institute of Humanities and Arts, where the 12th IPS will be held, was constructed in the neoclassical style in 1957 on the central Lenin Avenue of Yekaterinburg opposite the Opera House. It has a conference hall with 300 seats and modern multimedia equipment. The University building also has many smaller lecture halls of various sizes and it is therefore often used for workshops and conferences. There are several hotels, restaurants, and cafes within a five-minute walk, and the downtown and historical center of Yekaterinburg is less than 10 minutes walking distance.

Organizers

A.N. Zavaritsky Institute of Geology and Geochemistry of the Uralian Branch of the Russian Academy of Sciences

Co-organizers

International Association on the Genesis of Ore Deposits
Society for Geology Applied to Mineral Deposits
The Ural Federal University
Interdepartmental Petrographical Committee of Russian Academy of Sciences
Russian Mineralogical Society
IGCP Project 592 “Continental construction in Central Asia”

Important dates

10 January 2014
Abstract-submission available via Symposium website. Registration opens.
10 March 2014
Abstract submission deadline.
Deadline for submitting student grant applications
20 March 2014
Editorial decisions from conveners.
30 March 2014
Notification of abstract acceptance or rejection. Preliminary program.
10 April 2014
Final abstract revision by the authors.
Deadline for notification of student support
20 April 2014
Deadline for early bird registration
21 April 2014
Start for late registration. Only participate in Symposium without abstracts and not to be included in program. Participate in workshops and excursions if it is possible.
31 May 2014
End of full registration; refund (minus bank commission)
16 June 2014
End of partial registration refund
Deadline for late registration
Eurogranites 2014 proposal

Host: Camborne School of Mines, University of Exeter

Co-sponsors: Natural History Museum
CERCAMS
IAGOD WGCM

Main contact Jens Andersen (J.C.Andersen@exeter.ac.uk)

Organizing committee Jens Andersen, Camborne School of Mines
Robin Shail, Camborne School of Mines
Ben Williamson, Camborne School of Mines
Richard Scrivener, Consultant Geologist
Reimar Seltmann, Natural History Museum
Chris Stanley, Natural History Museum
Chris Halls, Natural History Museum
Axel Müller, Geological Survey of Norway

Time 12-18 July 2014 (6 field days)

Expected maximum number of delegates 30

Tentative Programme (subject to arrangements) Start and finish at Exeter St Davids Station, which has direct train connections to London Paddington Station, Reading Station (for London Heathrow and Gatwick Airports), Bristol Temple Meads station (for Bristol International Airport), and bus links to Exeter Airport.

Saturday 12 July 2014. Arrival to Exeter.
Evening welcome and introduction.
Overnight stay in Exeter.

Stop 1. Blackenstone Rock, exposures of Dartmoor granite
Stop 2. Birch Tor and Vitifer Mine, quartz-tourmaline-cassiterite mineralisation locally with specular hematite
Lunch at Warren House Inn
Stop 4. Newton St Cyres. Red-bed sediments, evidence of exhumation of granite
cover including volcaniclastic components

Overnight stay in Exeter.


Lunch at Miners Arms, Hemerdon

Stop 2. Meldon quarry. Late aplite of topaz granite at the northern edge of Dartmoor, associated hornfels and Red-a-Ven skarn.

Stop 3. Camborne School of Mines. Reception, evening meal and tour of facilities.

Overnight stay at Penryn Campus, Tremough.


Stop 1. Porthleven (T). Metasediment host rocks, tectonic evolution of West Cornwall.

Packed lunch


Dinner at Godolphin Arms, Marazion

Overnight stay at Penryn Campus, Tremough.


Stop 1. Porthmeor Cove. Coastal exposure of granite dykes and cupola with pegmatite development and tourmalinisation.

(Stop 2. Scenic stop at Lanyon Quoit megalithic tomb)

Pasty lunch at Geevor tin mine

Stop 3. Porth Ledden and Priest's Cove, Cape Cornwall (T). Coastal exposures of several types of granites, cross cutting dikes and mineral veins.


Overnight stay at Penryn Campus, Tremough.

Day 5. Thu 17 July 2014. Mineralisation in the Camborne-Redruth and St Agnes mining districts
Stop 1. Holman's test mine, underground exposures of megacrystic coarse-grained biotite granite, cross cutting aplite and tourmaline veins.
Stop 2. Visit to the Heartlands, Cornish Mining World Heritage exhibitions (and souvenir opportunities)
Lunch at Heartlands Red River Café
Stop 3. Chapel Porth (T). Cliff exposure of the Towanwrath Lode (Wheal Coates)
Stop 4. Cligga Head mine, Perranporth. Greisen-bordered veins in kaolinized granite
Overnight stay at Penryn Campus, Tremough.
Day 6. Fri 18 July 2014. St Austell granite (schedule to be finalised)
(Stop 1. Treviscoe, Wheal Martyn, or alternative. Kaolinisation in granite)
Stop 2. Rostowrack. Topaz and fluorite granites
Packed lunch
Stop 3. Wheal Remfry. Tourmaline breccia pipe, kaolinization and china clay.
Stop 4. Roche Rock, quartz-tourmaline rock at the edge of the St Austell granite
Evening return to Exeter St Davids (16.00 departure for trains departing after 18.00).

(8) The Geological Survey of Iran, in cooperation with the Earth Science Matters Foundation, organizes the First International Geosciences Conference in Iran, entitled "Geosciences and Politics, Economy & Culture in a Changing World". The International Conference will be held on 18 and 19 February 2014 in Tehran and is back-to-back to the 32nd National Geosciences Conference in Iran (16 and 17 February, to be held on 14 topics, each in another Province: http://nigc.conference.gsi.ir).
(9) Re-launch of an International Journal “Global Tectonics and Metallogeny”.
It is our great pleasure to inform that the preparations for the re-launch of the International Association on the Genesis of Ore Deposits journal “Global Tectonics and Metallogeny” (GTM) have been accomplished with the appointment of a new editorial board and the setup of a new website for electronic manuscript submissions and editing: www.schweizerbart.de/submit/gtm/index.php/gtm. The journal was continuously published over the past decades under the ownership and editorial guidance of its founder, the late Professor Jan Kutina. After his sad passing away followed a 2-year period of restructuring when the publisher first acquired the rights in the title and secured the support of IAGOD as learned society to adopt the journal and to assist in making the journal with thorough peer-review procedures fit for the 21st century. As a side affect, this became one of the reasons why the interim editorial board (2009-2010) did not succeed to generate during this period a flow of publishable manuscripts from those authors who used to publish previously in GTM. With also 2011 halfway through it is now a measure of urgency and crucial importance to generate a stable manuscript flow for GTM to start in 2012 with periodical release of its issues to qualify soon for the ISI impact factor system. In consequence, we would like to invite you to submit a paper to the re-launched “Global Tectonics and Metallogeny”.

Together with Schweizerbart Science Publishers, we wish to thank you for your readiness to give GTM in the future the place in the journal landscape that its title deserves!
Re-launch of an International Journal & Call for papers

It is our great pleasure to inform you that the preparations for the re-launch of the International Association on the Genesis of Ore Deposits Journal “Global Tectonics and Metallogeny” (GTm) have been accomplished with the appointment of a new editorial board and the setup of a new website for electronic manuscript submissions and editing: www.schweizerbart.de/submit/gtm/index.php/gtm.

The journal was continuously published over the past decades under the ownership and editorial guidance of its founder, the late Professor Jan Kutina. After his sad passing away followed a 2-year period of restructuring when the publisher first acquired the rights in the title and secured the support of IAGOD as learned society to adopt the journal and to assist in making the journal with thorough peer-review procedures fit for the 21st century. As a side effect, this became one of the reasons why the interim editorial board (2009-2010) did not succeed to generate during this period a flow of publishable manuscripts from those authors who used to publish previously in GTM.

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Ochir Gerel, Ulan-Baatar/Mongolia  <gerel_17@yahoo.com>
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Brendan Murphy, Antigonish/Canada  <bmurphy@stfx.ca>
Yaoling Rui, Durham/UK  <nu.yaoling@yahoo.co.uk>
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Inna Safonova, Novosibirsk/Russia  <insa07-64@mail.ru>
Karel Schulmann, Strasbourg/France  <schulmann.karel@gmail.com>
Alcides N. Sial, Recife/Brazil  <sial@ufpe.br>
Miroslav Stempok, Prague/Czech Republic  <stempok@ntst.cuni.cz>
Min Sun, Hong Kong/China  <minsun@hku.hk>
Global Tectonics and Metallogeny

Aims & Scope

Global Tectonics and Metallogeny (GTM) provides a forum for a systematic discussion of the factors that govern the formation and distribution of ore deposits from district to continental and to global scale. Special emphasis is placed on understanding and describing relationships between metallogenesis 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 with a broad geological community that is invited to join the debate. Reports on activities of the CTOD working groups will also appear in this journal. Invited review papers will be published on an irregular basis. The language of the journal is English.

Submission and review

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 preferably online and will be reviewed based on the Global Tectonics and Metallogeny Online Review System. This procedure strongly simplifies the review process, accelerates communication, and enables authors, editors and reviewer to maintain an excellent overview about the status of all review processes.

For online submission please use:
https://www.schweizerbart.de/submit/gtm

Optional Open Access

Authors may have their articles made freely available online against charges (Optional Open Access). Please contact the publisher for details.

Online Version

GTM participates in CrossRef which allows direct access to referenced papers which are available online. The online edition is hosted by Ingenta.

Abstracted/Indexed in:
Georef, Speleological Abstracts
International Association on the Genesis of Ore Deposits

APPLICATION FOR MEMBERSHIP

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Company: 
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Country: 
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[ ] Other:
Date: 
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Education
Highest Degree: 
Years (from to): 
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Membership Fees
IAGOD, the International Association on Genesis of Ore Deposits has appointed Schweizerbart Science Publishers to collect IAGOD membership fees online. For membership payment please use the secure webshop at: https://www.schweizerbart.de/iagod/membership-payment

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APPLICATION FOR MEMBERSHIP
Additional Information

PROFESSIONAL EXPERIENCE (Use separate sheet if necessary)

Company/Institution: 
Years (from-to): Position/Occupation: 

Company/Institution: 
Years (from-to): Position/Occupation: 

Company/Institution: 
Years (from-to): Position/Occupation: 

CURRENT SPECIALIZATION OR INTEREST

Keywords: 

KNOWLEDGE OF LANGUAGE

Spoken: ☐ English ☐ French ☐ German ☐ Spanish ☐ Italian ☐ Russian ☐ Chinese
Other specify: 

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