



SGA

News

June 2004
Number 17

Ore Deposit Research in the Times of Minimised Budgets

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SGA Promotion Manager

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Ore deposit research in the times of minimised budgets?

The discipline of geosciences in general and the subject of economic geology and ore deposit research in particular are currently under considerable pressure from drastically reduced budgets and the apparent need to sharpen scientific profiles in universities and other research institutions, such as geological surveys, as well as in multinational exploration and mining companies, alike. Dropping base metal prices and an overall strained economic environment have been a (welcome?) reason to reconsider the overall need for ore deposit research in many countries. The current trend is not isolated from a broader tendency to cut costs for geoscientific research in general, commonly under the headline of shaping more competitive scientific profiles and to reduce unnecessary duplications of scientific units or university curricula. Politicians in national and provincial ministries as well as university managements in many parts of the world have been forced by a stalling economic growth to adjust their research expenditure to the reduced funds available. However, recent reversal in metal prices and the growing realisation that China's need for raw material imports to support its booming economy might be just about to change the global economic framework again. Consequently, decision makers in ministerial, scientific, and edu-

cational institutions alike are well advised to react in a forward thinking and flexible manner and SGA can assist these decision making processes by keeping its members up-to-date on crucial scientific and economic changes.

It appears thus timely to consider SGA's role not only to serve its members internally, but to promote an understanding for the need for continued mineral deposit research on a much wider public and political level. Improved internal communication and media formats within our international scientific community of professional SGA members can therefore be only a first step on our way to a better and broader public and political visibility.

Sharpening scientific profiles - a battle of 'New Science' versus 'Old Science'?

Scientific 'buzz words' come and go, but tend to gain academic significance and political weight under constrained budgets, when universities and other government research institutions come under review and tend to concentrate their funding on core issues. Nanotechnology, microbiology, and genetic engineering are key subjects of what may be called 'new science' in almost all highly developed countries and thus receive prime funding and wide political and, at least partial, public support. Geoscience faculties of several universities have been

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A new look for SGA NEWS

Massimo Chiaradia, Editor of SGA NEWS

This issue of SGA News presents itself in a completely new layout and colour scheme, produced by the creative team from design & production (Bruno and Martina Winkler). Besides aesthetics, the main purpose of this completely new appearance is to improve readability as a service to the SGA membership and to help SGA to address important issues, such as upcoming events and conferences, in an even more informative and effective way. Time is becoming one of our increasingly precious commodities and, consequently, this requires improved means of communication. Today, our scientific flagship product, Mineralium Deposita, is complemented by the SGA website, www.e-sga.org, and the SGA Newsletter, to keep the reader updated on new developments in the fields of scientific, academic, and industrial matters related to the subject of ore deposit geology. The new layout has been the result of the efforts and initiative of different people,

whom I would like to thank: Gregor Borg who launched the idea of the new layout for SGA News and Bruno and Martina Winkler, at design & production, who realized the new concept with great success. I hope you will enjoy the reading of the new SGA newsletter!



Gregor Borg



Bruno Winkler



Martina Winkler

News of the Society

News of the Council

Report of the President (D. Leach)

D. Leach welcomed all newly elected officers and thanked those whose term on the Council expired at the end of 2003. He also highly appreciated the great hospitality and smooth arrangements by IAEG in collaboration with the Geological Survey of Ireland who hosted the Council Meeting in Dublin (Ireland) on 27-28 March 2004. D. Leach continued to work with the SGA Regional VPs to increase the visibility of SGA in their respective regions and to recruit new corporate members. He was pleased to report that new efforts are being developed to increase student participation in SGA activities and Biennial meetings. Student representatives on the Beijing Organization committee will assist the needs of students participating in the conference. In addition, the involvement of student participation in SGA Council meetings was proposed.

Report of the Treasurer (P. Herzig)

P. Herzig presented the Financial Report for 2003 and basic figures about the development of SGA membership that currently amounts to 724 members. He also informed Council about his new position in Kiel and moving the SGA Treasurer Office in July 2004 from Freiberg to Kiel.

Report of the Chief Editors, MD (B. Lehmann and L. Meinert)

In 2003, a total of 62 papers were published in 8 issues of Volume 38 on 1000 printed pages. To date, 2 issues of the Volume 39 were printed. It was emphasized that free color plates in MD for SGA members advertised in SGA promotional materials should be adapted (they are available but only with the approval of chief editors).

Report of the SGA Promotion Manager (G. Borg)

G. Borg presented new promotional items (scales and measures) and a promotion strategy for the next SGA Biennial Meeting was also discussed as well as the possibility of buying a new SGA booth, which should be located in Asia.

SGA NEWS

No. 17 June 2004

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Items for publication may be sent to: SGA News (see address below)
Manuscripts should be sent in computer diskette in Macintosh or DOS formats using Microsoft Word. Please always send a paper copy and indicate the format you are using.

DEADLINE FOR SGA NEWS No. 18
30 September 2004

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Reports of Regional Vice-Presidents

The Council approved that SGA will co-organize a workshop on Recent Advances in Magmatic Ore Systems (December 2004), organized by the SGA Regional VP for Asia (Dr. Mei Fu Zhou).

The Council strongly supported a proposal on creation of the best student presentation/poster suggested by F. Bierlein (SGA Regional VP for Australia/Oceania).

The Council also discussed a possibility of creation of SGA Regional Student Centers.

8th SGA Biennial Meetings in 2005 (Beijing, China) (Mao Jingwen and B. Lehmann)

Mao Jingwen and Bernd Lehmann (technical liaison) reported on the status of preparation of the 8th SGA Biennial Meeting. This will be a stand-alone SGA meeting with SEG and IAGOD invited to be co-sponsors to run their own modules and/or field trips. It is important to stress that the date for the meeting was slightly changed. The meeting will be held in Beijing on August 18-21, 2005 on the campus of the China University of Geosciences. The following deadlines for the 7th SGA Biennial Meeting were approved by the Council:

- April 10, 2004, First Circular.
- June 30, 2004, deadline for responses to the First Circular.
- September 30, 2004, Second Circular and call for abstracts.
- January 31, 2005, submission of abstracts
- April 30, 2005, deadline for payment of early registration, field trips and short courses.

9th SGA Biennial Meeting (2007) Dublin, Ireland

The Irish proposal was presented by G. Stanley. Two possible venues – the Trinity College and UCD were visited. The meeting should be planned for 4 days plus 1 day for short courses.

The organization of student sessions was also proposed. It was recommended that a prospectus with basic information on the meeting should be prepared and distributed at the 8th SGA Biennial Meeting in Beijing. The Council highly appreciated efforts of the local organizing committee.

Past Activities

- Geochim 2003 – postgraduate course organized jointly by Czech Geological Survey in Prague, UNESCO and SGA (September 1-15, 2003, Prague and Dolní Rozínka, Czech Republic).
- 3rd Fennoscandian Exploration and Mining (Rovaniemi, December 3-4, 2003): Robin Hill represented SGA.

Future Activities

- 32nd IGC (Florence, August 20-28, 2004): several Symposia co-sponsored, meeting of SGA Council or Executive Committee planned on August 25, 2004
- SEG 2004 (Perth, Sept. 27-Oct. 10, 2004). SGA will run its own module.
- The 12th IAGOD Quadrennial Symposium (August 2006, St. Petersburg, Russia): SGA module planned.
- CRC Science Meeting, Barossa Valley SA (June 1-3, 2004).
- 2004 MORE-SGEG Conference (July 6-8, 2004).

-Victorian Universities Earth Sciences Conference, Melbourne (planned for early September).

-A joint meeting with the GAC and MAC in Québec in May 2008 The proposal was presented by G. Beaudoin. SGA Council nominated G. Beaudoin to become SGA

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APPLICATIONS to SGA for meeting sponsorship must be submitted to Jan Pasava, SGA Executive Secretary, on appropriate forms available at the SGA home page on Internet: www.e-sga.org
Other requests will be not considered.

Your suggestions and ideas for any topic of interest to SGA are welcome!
They can be addressed to any Council member or to
Dr. Jan Pasava
SGA Executive Secretary

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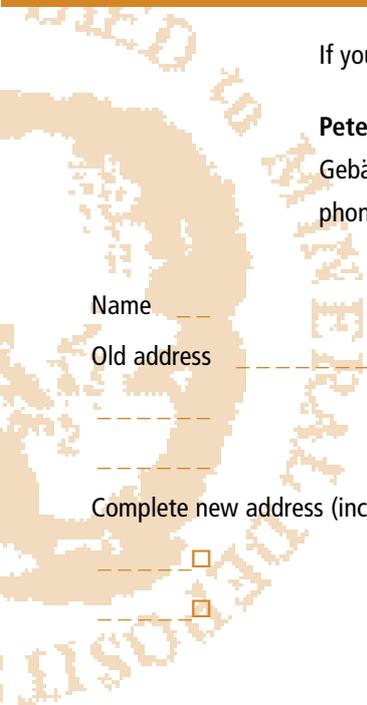
If you have changed (or will change in the near future) your address please fill in this form and send it to:

Peter M. Herzig, SGA Treasurer - Leibniz-Institut für Meereswissenschaften · IFM-GEOMAR
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phone: ++49-431-600-2800 · fax: ++49-431-600-2805 · e-mail: pherzig@ifm-geomarg.de

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SGA COUNCIL 2004

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Membership Secret.	R. Seltmann (U.K.)

Report of the Executive Secretary about membership

19 Regular Members and 24 Student Members applied for membership from November 1, 2002 to April 24, 2003

LIST OF NEW SGA MEMBERS (November 1, 2002 – April 24, 2003)

REGULAR MEMBERS

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 Mr. Steve ENNS 1696 Daven Port Place North Vancouver V7S 1N5 British Columbia CANADA
 Mr. Morgan POLIQUIN Almaden Minerals Ltd., 1103-750 West Pender Street, Vancouver, British Columbia V6C 2T8 CANADA
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 Dr. Hongtao LIU Institute of Geology Chinese Academy of Sciences Beijing 100029 CHINA
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 Mr. Mark THOMAN Phelps Dodge Exploration, 6111 E. Eastland, Tuscon, Arizona U.S.A.
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CORPORATE MEMBERS

Rio Tinto Mining and Exploration Pty Ltd Mr. Mattheew Rose - Librarian, Lower Castle Street, Bristol, BS99 1FS U.K.

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Representative in the organizing committee.

-8th SGA BIENNIAL MEETING - "MINERAL DEPOSIT RESEARCH: MEETING THE GLOBAL CHALLENGE", Mao Jingwen et al. (August 18-21, 2005, Beijing, China).

-The 12th IAGOD Quadrennial Symposi-

um (August 2006, St. Petersburg, Russia): V. Shatov SGA will organize its own module and possibly SGA exhibit.

-9th SGA BIENNIAL MEETING (2007, Dublin, Ireland).

Other business

-F. Tornos was selected as SGA Lecturer at the 2004 UNESCO-SEG Metallogeny course, August 17-28, 2004, Mendoza,

Argentina.

-The Council approved that one Past-President becomes a SGA Council Member (not a member of Executive Committee) with voting position for a limited period of time (subject of rotation with SGA elections). H. Papunen (the past president) will serve on the Council until December 31, 2005.

Reports of Regional Vice-Presidents

In this issue we continue the new space dedicated to SGA Regional Vice-Presidents which introduces them to our membership and provide them with some well-deserved recognition.

DR. MOHAMMAD YAZDI, SGA REGIONAL VICE-PRESIDENT FOR MIDDLE-EAST



Dr. Mohammad Yazdi is an Associate Professor of Geochemistry of Mineral Deposits at the University of Shahid Beheshti, Tehran, Iran. He was born on 1966 in Iran. Prior to joining to univer-

sity of Shahid Beheshti, he held numerous jobs in higher education centers including Natural Resource Higher Education Center of Agriculture Ministry of Iran and engineering companies. Before academia, Dr. Yazdi served as a geologist in mining companies, like National Iranian Copper Company, environmental and geotechnical companies. He taught geology and photo geology at the Natural Resource Higher Education Center of Agriculture Ministry of Iran and Open University of Tehran.

He has recently been chosen as General Director of Education at the Shahid University of Tehran. Over the past 5 years he

devoted himself to both teaching and administrative duties in the field of geology.

Dr Yazdi received his Bachelor of Science (BSc) in geology from the University of Shahid Beheshti in 1989. He received his MSc in Economic Geology from the same University in 1992. He received his Ph.D in Geochemistry of Mineral Deposits from the Charles University of Prague, Czech Republic, in 1998.

Dr. Yazdi has published some articles in different journals, as well as many presentations/proceeding at various geological academic conferences. Dr. Yazdi has served in many roles in academic conferences and has served on numerous academic committees.

His research areas include: geochemical exploration, geochemistry of igneous and sedimentary ore deposits and coal geology. Yazdi's current research interests are in the area of coal geology with focus on geochemistry and environmental impacts.

The first step as SGA regional Vp for Middle-east will be trying to increase SGA members, who are now only 4, by introducing SGA to the geologists of this part of the world.

DR. MEI-FU ZHOU, SGA REGIONAL VICE-PRESIDENT FOR ASIA



After completion of my PhD degree at Dalhousie University in Halifax, Nova Scotia, and one year of post-doctoral research in Sudbury, Ontario, Canada, I joined the Department of

Earth Sciences at the University of Hong Kong in 1996, where I have been teaching Mineralogy, Petrology and Geochemistry for both undergraduate and post-graduate students. The Eurasian continent is a unique tectonic setting rich in mineral deposits. My research work concerns a variety of projects in the Asian continent and elsewhere and includes regional geology, magmatic ore deposits and development of analytical techniques. I collaborate extensively with Chinese and overseas geologists.

Hong Kong provides an ideal environment with opportunities to interact with scientists and mining geologists around the world. Over the past decade, I have seen dramatic economic growth in the Asian countries

and believe that the sustainable usage of mineral resources will be the key for the development of nations in the 21st century. As the new Regional vice-president for Asia, I respect this opportunity to serve the members and to promote the development of the society in Asia, in particular in China which has more than 10,000 economic ge-

ologists from industry, research institutions and universities. My major responsibilities with SGA are to serve our current members and to encourage new members to join the society. I will actively participate in several major SGA conferences to be held in Asia in the next few years and am currently organizing a meeting together with IGCP-479 in

Hong Kong to be held in December, 2004. I will set up SGA promotional booths at these events and will talk to potential members. I also welcome interested parties or personnel to discuss potential collaboration to increase the visibility of SGA in Asia.

>>> page 1 *Ore Deposit Research in the Times of Minimized Budgets*

down-scaled during the last few years and many more have come under increased pressure to justify their mere existence. Unfortunately, student numbers are commonly a major if not the sole criterion when it comes to the distribution of university budgets. Geosciences and ore deposit geology in particular have been characterised for a long time by comparatively small student numbers, labour-intensive teaching modules both in the laboratories and in the field, and costly analytical laboratory equipment. As a result, geosciences are currently under the threat to be branded as 'old science', which, together with the inherently 'dirty' image of mining, creates an unfavourable political background for our field of research. Additionally, the linkage of the discipline of the geosciences and here again, especially economic geology, with other university disciplines is comparatively weak. Our students normally attend classes in the natural sciences such as chemistry, mathematics, physics or botany, but our own field is normally not a favourite subject for the students from other disciplines. Consequently, very few other disciplines miss us when ministries decide to close economic geology institutions within universities. This threatens to become an overall process of slow erosion of an entire discipline, unrecognised by most, which are not immediately affected, but with the danger of destroying regional or national expertise in mineral resource sciences at the detriment of the respective society. The trend to a 'lean science', with a tendency to reduce university research and teaching to subjects, which are currently driving economic growth, create jobs, and generate tax income, is highly popular within many ministries but has the danger of irreversible damage to the overall ore geology memory, knowledge pool, and to research culture in general. It goes without saying, that research institutions inside and outside universities alike, have to justify expenditure and - in many places - still have a marked potential for better cost

efficiency. However, research capacities for our future mineral resource supply and utilisation are relatively easily shut down, but cannot be re-established as quickly when the need arises. This problem applies to teaching collections of ore samples even more so, and these are one of the foundations of proper geological and mineralogical teaching in ore mineral and alteration parageneses.

Strategies to counteract the detrimental results of such drastic budget cuts, that will lead only to the 'survival of the fittest' or the discipline with the 'flavour of the month' have to rely, again, on improved information on the merits of our research to society and, additionally, on enhanced networking with other disciplines and institutions. Shared interests in interdisciplinary research and teaching can include ore deposit research, (palaeo-) climatology, soil sciences, agriculture/botany (e.g., plant nutrition and toxicology) for example in the innovative field of supergene near-surface oxidative processes. Here, the research on formation of lateritic nickel or non-sulphide zinc deposits and on the oxidation of sulphide minerals in general can join forces with a wide range of other disciplines in

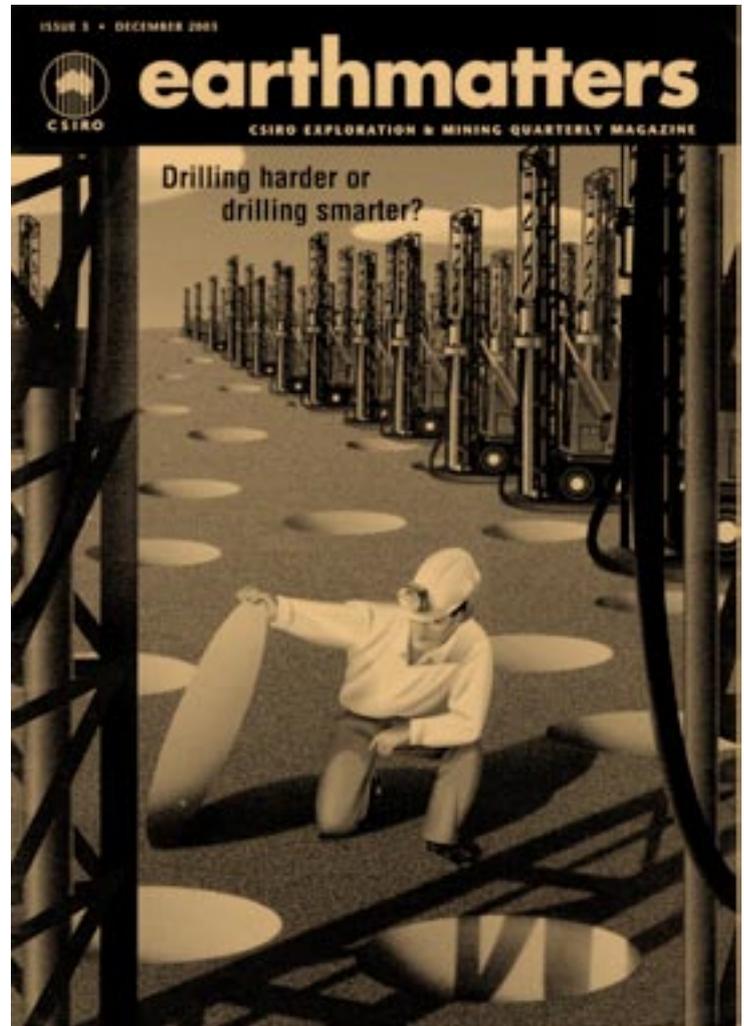


Figure 1: Title page of the March issue 2004 of *earthmatters*, the Australian CSIRO's new Exploration and Mining Quarterly Magazine (reproduced with the permission of the editors).

order to investigate complex natural metallogenic systems or ecosystems, depending on the individual perspective.

A striking example of such a group of ore deposits are supergene non-sulphide zinc-only deposits, such as the newly opened Skorpion deposit in Namibia (Borg et al. 2003). This deposit has formed from the near-surface oxidation of a precursor sulphide at least partly during a more humid phase of the younger erosional history of the Namib Desert. Scientists from various disciplines are currently working together to unravel the metallogenic evolution of this deposit,

which, during formation has also undergone a marked purification process. As a result, the supergene zinc-hydrosilicate dominated ore has lost all of the originally accompanying metals such as copper, lead, arsenic, and cadmium, and most of all the entire sulphur content of the precursor sulphides. The resulting ore is environmentally 'friendly' (zinc only and with non-toxic tailings), carries comparatively high grades of 11% Zn, and generates high revenue in its country of origin from SX-EW production of medical grade zinc 99,998% Zn on site.

Fundamental marine and ore deposit research – breaching the interdisciplinary gap

In another example, the technological advances in deep marine research over the last decades have opened a completely new realm of opportunities for a great number of disciplines, such as oceanography, marine microbiology, geobiology and last but certainly not least ore deposit research of seafloor hydrothermal metallogenic systems. This field of interdisciplinary research has kept on expanding continuously into and linking other fields of new technologies or research disciplines. Submarine drilling and sampling systems as well as GPS-aided steering and positioning systems have made tremendous advances and profit from or trigger new technological developments, such as newly developed sea floor drilling systems. Interdisciplinary scientific research frontiers have been pushed to new limits with trans-disciplinary research, including biological studies on the 'deep subterranean biosphere'. Here, thermophile bacteria and micro-organisms are identified well below seafloor hydrothermal systems and these are of both metallogenic as well as microbiological significance. The mobilisation, bio-immobilisation and/or accumulation of metals such as iron, lead, zinc, and cadmium are actively investigated by marine microbial biologists and geobiologists alike (Ferris et al., 1999, 2000; Donocik et al., 1996). However, these biogenic processes are of equal importance for the various groups of ore geology scholars conducting research on the emplacement of hydrothermal sub-seafloor mineralisation.

Research in or for the international exploration and mining industry?

The repercussions of global or regional economic change tend to affect research

units in the exploration and mining industry far more rapidly than in universities or government institutions. In-house research has been drastically reduced and out-sourced in many large exploration and mining companies since the global exploration expenditure had peaked at almost 4 billion US\$ in 1997 but slipped since then. Lean management practice, subcontracting of entire fields of study (e.g. remote sensing or geophysics) and the increasing recruitment of contract staff have become common practice with many companies worldwide. Generally, this has not slowed down the rate of exploration or the need for creative and innovative ideas and concepts. The necessary input is commonly purchased on a project or 'just-in-time' basis, which allows greater flexibility in industry but, at the same time, offers abundant research opportunities for university ore deposit research, provided a common language and rhythm of work is established. The successful and symbiotic cooperation between both 'worlds' thrives on the academics' understanding of the industry partners' need for fix dead lines, practicable and applicable results, as well as partial or temporal confidentiality and on the companies' understanding of the academic's need to publish eventually part or most of the suitable results for the scientific public. This cooperation is well-established in regions of both active and mature exploration environments, such as Canada and Australia, but still has the potential for considerable growth in many other countries.

How to get back to the top – learning from 'down under'

The leading article of the March issue of „earthmatters“, the Australian CSIRO's new Exploration and Mining Quarterly Magazine, has addressed the subject of higher economic and scientific return for money spent in exploration by its headline "Drilling harder or drilling smarter" (Fig. 1). Here, a new report shows that substantial value to Australia has flown from scientific advances in mineral exploration (White, 2004). Additionally, improved bore hole 'siting' and consequently higher success rates in drilling help to minimise the environmental impact of exploration in any ecosystem. The article is an excellent example of highlighting both new developments in economic geology research and its profit for modern societies. As one example, Australian exploration and mining have dealt already for a number of years construc-

tively with nature's need for protection and the society's obligation for sustainable development in the mineral resource sector and for monitoring and regulation of the environmental risks and impacts of such activities. The interaction of ore deposit research, industrial exploration and mining, and environmental legislation has come a long way in Australia over the years and can serve today as a role model for many developing countries.

Market forces and sustainable mineral resource management in future 'boom-regions'

An increased demand for responsible ore deposit research, both as a fundamental contribution to an enhanced understanding of our 'system earth' and as part of a more sustainable mineral resource management, are imminent. This is a logical consequence of the future challenges arising from rapidly growing populations - and markets - in many developing countries. The 'China Factor' in the general mineral resource markets and particularly the metal markets has been recognised already for a while by many commodity analysts. China, with its increasing population and rapidly changing and growing economy alone, is turning from an exporter of many commodities to a massive importer within the next few years or has done so already. The replacement of exhausted ore deposits will require not only a continuously high rate of innovation and exploration success but additionally offers the chance to explore for mineralogically, chemically, technically, environmentally, and economically improved ore bodies at the same time. The dramatic change of China's role from a net-exporter to a net-importer of a wide range of commodities (e.g. coal, iron ore, molybdenum, zinc) cannot be overestimated in its significance both for the Asian and global markets. By now, the dramatic increase on the price of coking coal (from 45 US\$ to 450 US\$ within four years) threatens to have a crippling effect on the steel manufacturing industry in several highly industrialised nations. It has been a politically widely shared opinion in first world economies, that the markets will take care of the supply of ore and metals and that, consequently, ore deposit research has seen very limited support only. Decision makers are about to realise that the markets will supply the metals but this might be at any (high!) price, with disastrous effects on economies, which are struggling to recover.

Modern research and teaching on ore deposits, on metallogenic systems in general, on innovative exploration models and techniques, and especially on the sustainable utilisation of mineral resources will become key issues in those regions, which attract most exploration expenditure today. Besides mature exploration regions such as North America, Scandinavia, or Australia, these areas include also many developing countries, where the level of in-country expertise is not sufficient yet to initiate, conduct, monitor, and control the exploration and mining activities on an adequate level. It is an obligation of geoscientists from highly industrialised nations and ore deposit researchers in particular, to support the know-how transfer and to provide training opportunities to the universities, government research institutions, and companies of the developing or academically challenges countries. International exploration companies, geoscientific aid or technical cooperation projects, and inter-university exchange alike, all face the problem of inadequately trained local staff that never had the opportunity to fully develop their capabilities in academic economic geology research or industrial exploration or mining. The ore deposit researchers within the geoscientific community and especially we as SGA can contribute to raise the professional level qualification of both academic and industry geologists in the developing regions of the world. SGA's policy of supporting economically challenged teaching institutions with free copies of Mineralium Deposita is merely a first step in this direction. The recent decision of the SGA council to enlarge the number of Regional Vice Presidents by an RVP for the Middle East and for Russia strengthens the SGA's commitment to offer its scientific assistance in regions, which have seen fewer activities from our society in the past. Even the most outstanding of our highly visible scientific activities, besides the internationally top-ranking journal, our Biennial SGA-Meetings, will take place in Beijing in 2005. This decision, which was debated in a lively fashion during the successful and stimulating Biennial SGA-Meeting in Athens last year, underlines our intention to reach out to regions, where the growth potential is tremendous in undiscovered exploration targets, scientific cooperation possibilities, and training opportunities. SGA will continue and expand its offer of short courses for training on cutting-edge developments in ore deposit research and is always receptive for suggestions or applications for

financial or logistical support and scientific contributions to regional conferences, field workshops, or short courses on research on relevant ore deposit types.

Current and future public outreach activities of SGA

A good opportunity to advance the public and political visibility of our field of research will be the forthcoming International Year of the Planet Earth (IYPE) in which SGA has joined forces with the Society of Economic Geologists (SEG) and the International Association on the Genesis of Ore Deposits (IAGOD) to become actively involved in global promotional activities. Plans are at an advanced stage to produce an interactive DVD with several modules to promote responsible mineral resource management for a wide public distribution at relatively low costs to schools and university students. In contrast to scientific or wider public lecture tours, such a DVD can reach a much wider part of the population and can generally be displayed and used on any computer, anywhere, and at any time. Here it is the multiplication factor that is most significant in this form of public outreach. The IYPE will follow and expand on the example of national 'years of public outreach' such as the successful 'Year of the Geosciences 2002' in Germany, which will also lend its well established logo to the International Year of the Planet Earth (Fig. 2).

Further activities of SGA might include the preparation of information flyers on the significance and role of mineral resources, their sustainable use for future societies and on the importance of continued research into the ore-forming systems in order to replace depleted resources and to optimise future mineral commodity producers economically and ecologically. Such SGA flyers could be distributed to decision makers on all levels of academia (ministries and universities), media (newspapers and tele-

vision), politics, and society in general (politicians on municipal, regional and national levels). Differently structured flyers might 'target' schools (teachers and/or pupils) to raise the level of awareness that modern societies simply do not function without mineral resources and metals, and that there is more to a responsible way to supply such materials than simply rely on commodity markets. Open panel discussions during our Biennial SGA-Meetings could address the subject of public and political outreach and SGA's international role in such activities even further.

It will be an additional task and a welcome new challenge for SGA to widen its scope in this direction and the success of this initiative will be solely driven by the input of dedicated SGA members, many of which have helped, over the years, to shape SGA into the outstanding scientific organisation, which it is today.

References

Borg, G., Kärner, K., Buxton, M., Armstrong, R., & Schalk, W.v.d. (2003). Geology of the Skorpion non-sulphide deposit, southern Namibia. *Economic Geology*, 98, 749-771.

Donocik, A. Ledin, M. Pedersen, K & Allard, B. (1996) Accumulation of zinc and cadmium by *Cytophaga johnsonae*. *Biometal.*, 9, 169-175.

Ferris, G., Pedersen, K., Luyvén, B & Konhauser, K. (1999). Accumulation of metals by bacteriogenic iron oxides in a subterranean environment. *Geomicrobiology Journal*, 16, 181-192.

Ferris, F.G., Hallberg, R.O., Lyvén, B. & Pedersen, K. (2000). Retention of Strontium, Cesium, Lead and Uranium by Bacterial Iron Oxides from a Subterranean Environment. *Applied Geochemistry*, 22, 1035-1042.

White, G. (2004). The \$5 billion gap. - *Earth-matters*, CSIRO Exploration & Mining Quarterly Magazine, 3, 3-4.



Figure 2: The Logo of the 'Year of the Planet Earth', in which SGA plans to promote responsible mineral resource management by producing an educational DVD movie.

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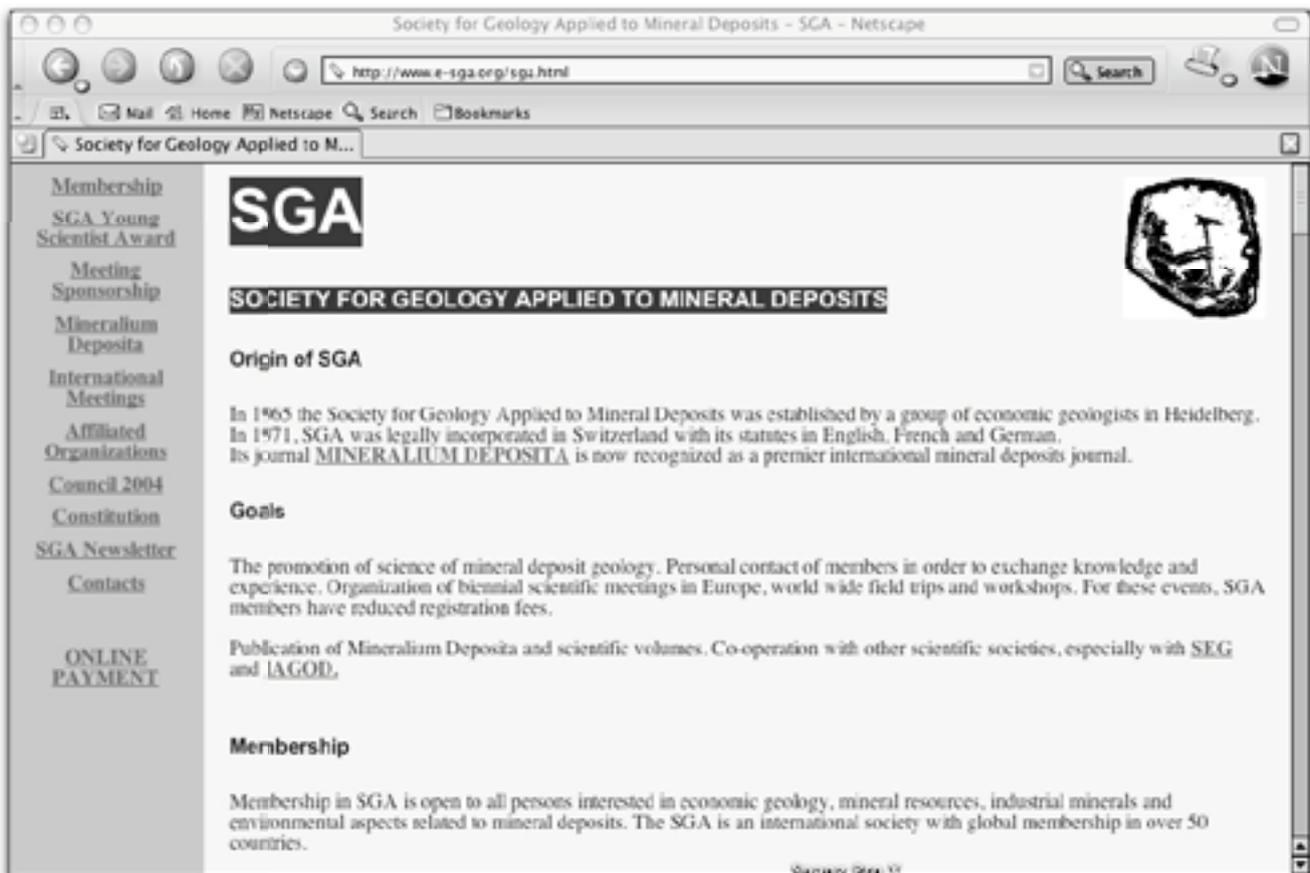
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The SGA Council offers a limited number of free subscriptions to Mineralium Deposita to Institutions and, under special circumstances, also to individuals in an economically challenged situation. The grant period is for 2 years. Please send a letter of justification for the need and specify how the journal will be used. The written request including contact details of two SGA members supporting this request should be sent to the SGA Executive Secretary, Czech Geological Survey, Klárov 131/3, 118 21 Praha 1, Czech Republic.

The SGA homepage address on internet is <http://www.e-sga.org>. From this homepage you can get information about biennial scientific meetings in Europe, worldwide field trips and workshops, membership application form for the SGA and authors and titles of this year contributions to Mineralium Deposita as well as the electronic edition of SGA News.



Meet the new student representative on the SGA Council

The SGA Council has a strong commitment to increasing student involvement in the Society. In this spirit, during the last Council meeting in Dublin (March 27-28, 2004), the Council approved a new position to be a direct voice for student interest. We are proud to introduce our first "Student Representative", Anna Vymazalová from the Czech Republic (photo below).

Brief introduction from Anna Vymazalová

I graduated from the Charles University in Prague, Czech Republic in 1997 with a MSc degree. After graduation, I joined the Department of Mineral Resources of the Czech Geological Survey where I am currently working on my PhD thesis (experimental mineralogy related to mineral deposits). In 2001, I initiated the creation of a Joint Prague-Freiberg SGA Student Chapter. The Joint Prague-Freiberg SGA Student Chapter is composed of about 15 active graduate and undergraduate members from Charles University and Technical University in Freiberg. During the past years we organized several field trips (e.g., Joachimstal-CR, Pohla and Schloma-Germany), meetings and seminars related to mineral deposit research. The main goal of the Chapter is to bring together students and other young scientists (SGA members) involved in economic geology and mineral deposits.

Present advantages for students joining SGA

SGA is the only mineral deposit society that offers student memberships with such a valuable set of benefits. For EUR 10, the membership includes:

- both hard copy and electronic access to the society journal, *Mineralium Deposita* (8 issues per year) and *SGA News* (2 issues per year)
- discounted registration fees at any SGA organized or co organized meetings and fieldtrips

SGA has recently introduced the Young Scientist Award. This award is offered biennially to a young scientist who has contributed significantly to the understanding of mineral deposits. The award consists

of a citation, prize money (currently EUR 1500), and travel to the Biennial meeting for the presentation, and is open to all persons working in economic geology. The SGA Young Scientist Award is awarded for published research in economic geology before the author's 35th birthday. The recipient must be less than 37 years of age on January 1 in the year in which the award is presented. Dr. N. Vielreicher from the University of Western Australia was the first recipient of this prestigious award. More details on the award are available at www.e-sga.org.

My objectives for students in SGA

As a student representative on SGA Council, I will work to make student membership in SGA more attractive through:

- collecting of various ideas and recommendations from students;
- presenting and discussing these with SGA Council with the objective of promoting student needs and strengthening the future of SGA.

One possibility already being discussed by the SGA Council is to launch student sessions at SGA Biennial meetings. These sessions would be organized by students and awards would be given for the best oral and poster presentations.

In order to increase the involvement of students in SGA, your help, support, and active collaboration are essential.

Your comments, ideas and suggestions are greatly encouraged! I look forward to working with you. Together, we can make SGA student membership even more attractive and strengthen SGA worldwide.

Anna Vymazalova
Student Representative
on SGA Council

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News from the joint Prague-Freiberg SGA Student Chapter

Zdar Buh, Glück Auf from the Joint SGA Student Chapter at the Faculty of Science, Charles University, Prague, Czech Republic, and Freiberg University of Mining and Technology, Germany. In the autumn of 2001, several PhD and MSc students of economic geology at the Faculty of Science in Prague formed a work group to be under the auspices of the Society for Geology Applied to Mineral Deposits. We also decided to establish a connection with our Freiberg friends, because of the proximity of the two towns and our friendly relations with the German students. The SGA Executive Council approved the application of the Charles University in Prague and the University of Mining and Technology in Freiberg to become a Joint SGA Student Chapter in the spring of 2002. Our Joint Student Chapter is composed of about 15 active graduate and undergraduate students, as well as two members from the Czech Geological Survey.

During the two years of our Student Chapter life, we have organised a lot of interesting lectures in Prague and Freiberg and a number of separate and joint geological trips. The last joint field trip of Prague and Freiberg students was organised and led by Peter Drahota and Lukáš Ackerman in April 2004. They presented in the field several skarn occurrences and some geologic places of interest in the Kutná Hora ore district (photo in third column), and supplied the information in their Field Trip Guidebook. On the first day, we visited Holšice, Zliv and Vlastejovice skarn deposits, compared their different geologic positions, adjacent igneous rocks, their geochemical patterns, and than tried with the leaders to interpret their different genesis. We also tried to study the fluorite pegmatite and skarn rocks at Vlastejovice deposit, and visited a new beryl-columbite pegmatite close to the skarn localities. On the second day, we visited the southern, silver-rich part of the Kutná Hora ore district with Ag-Sb mineralization localities, and interesting slag dumps and Alpine-type vein mineralization. In the afternoon, we visited reminders of the Middle Ages and recent mining activities with a famous mineralogical locality of arsenic secondary minerals in the northern part of the district.

Our SGA Student Chapter would like to invite all interested students to attend our meetings. For more information about us, please visit our web page: <http://sga.dictor.net>. We look forward to meeting and greeting you.

Petr Drahota

Charles University, Prague



Call for nominations for the SGA Young Scientist Award

Deadline for submissions: January 1st, 2005

The Award will be presented at the 8th SGA Biennial Meeting in August 2005 in Beijing

The SGA Young Scientist Award is offered biannually to a young scientist who contributed significantly to the understanding of mineral deposits. The award consists of a citation, prize money (currently EUR 1500), and travel to the Biennial meeting for the presentation, and is open to all persons working in economic geology. The SGA Young Scientist Award is awarded for research in economic geology published before the author's 35th birthday. The awardee must be less than 37 years of age on January 1 of the year in which the award is presented. Any Society member in good standing may nominate candidates for the award.

How to Nominate: A brief biographical summary should be submitted by the person making the nomination to the SGA Executive Secretary by January 1 of the year of the Biennial Meeting. The following information should be included:

- Name of nominee
- Date of birth
- Education (degrees, institutions, dates) and previous awards
- Past and present professional affiliations
- Publication(s) for which the award is to be made, and to other published work. In-

dicating critical paper(s) and provide a copy of the abstract.

- Brief statement explaining the significance of the research, including its pertinence to economic geology, the originality and creativity shown in the research, the clarity of presentation, and its scientific and/or technical impact.
- Name(s) of individual(s) making the nomination. Supporting letters are helpful and may be attached to the letter of nomination or sent separately to the Chair of the SGA Young Scientist Award Committee.

c/o SGA Executive Secretary
Czech Geological Survey

Klárov 131/3
118 21 Praha 1
Czech Republic

Phone: ++(420) - 2- 51817390
Fax: ++(420)- 2 - 51818748

more info at <http://www.e-sga.org>

>>> FORTHCOMING EVENTS <<<

*** marks a new entry****2004****June 5-11 – SGA-Cosponsored**

14TH V.M. GOLDSCHMIDT CONFERENCE, Copenhagen, Denmark – Contact address: Goldschmidt 2004, Geological Institute, University of Copenhagen, Öster Voldgade 10, DK-1350 Copenhagen K, Denmark; fax: +45-33-148322; e-mail: goldschmidt@geol.ku.dk; web-site: <http://www.goldschmidt2004.dk/>

July 6-8 – SGA-Cosponsored

MORE-SGEG CONFERENCE, Orange, NSW, Australia – Contact address: Frank Bierlein or Andy Wilde, School of Geosciences, Monash University VIC 3800, Australia; phone: +61 3 9905 4879; fax: +61 3 9905 4903; e-mail: bierlein@mail.earth.monash.edu.au; wilde@mail.earth.monash.edu.au; web-site: <http://www.earth.monash.edu.au/seminars/MORE-Conference-2004.html>

*** July 12-16 – SGA-Cosponsored**

GEOSCIENCE AFRICA 2004, Johannesburg, South Africa - Contact address: Conference Secretariat, Bernard Price Institute for Palaeontological Research, University of the Witwatersrand, P O Box 3, WITS 2050, South Africa; e-mail: bpipal@geosciences.wits.ac.za; website: www.wits.ac.za/geoscienceafrica/

August 15-19

ASEG-PESA, INTEGRATED EXPLORATION IN CHANGING WORLD, Sydney, Australia – Contact address: Loise Pitney, Conference Action Pty Ltd, P.O. Box 576, Crows Nest NSW 1585 Australia; phone: +61-2-94379333; fax: +61-2-99014586; e-mail: aseg-pesa2004@conferenceaction.com.au; web-site: www.aseg-pesa2004.org.au

August 18-28

32ND INTERNATIONAL GEOLOGICAL CONGRESS, Florence, Italy – Contact address: Matteo Moscatelli or Erica Galli, Newtours SpA, Via San Donato 20, I-50127 Florence, Italy; phone: +39 055 33611; fax: +39 055 33611250/350; e-mail: newtours@newtours.it; web-site: <http://www.newtours.it> or <http://www.32igc.org>

August 18-28 - SGA-Cosponsored

GLOBAL AND CONTINENTAL-SCALE MINERAL RESOURCE ASSESSMENT, 32ND INTERNATIONAL GEOLOGICAL CONGRESS, Florence, Italy, T-09.07 Session, Florence, Italy

*** September 8-10**

International Symposium of Earth System Science (ISES 2004), Istanbul, Turkey – Contact address: Symposium Secretariat, ODS Congress

Management, Yildiz Cicegi 12/1, 34337 Etiler, Istanbul, Turkey; phone: +90-212-2875800; fax: +90-212-3522660; e-mail: secretariat@earthsysstem2004.org; website: www.earthsysstem2004.org

September 11-19

INTERNATIONAL ASSOCIATION ON THE GENESIS OF ORE DEPOSITS, VLADIVOSTOK-2004: INTERIM IAGOD Conference on Metallogeny of the Pacific Northwest: Tectonics, Magmatism & Metallogeny of Active Continental Margins, Vladivostok, Khabarovsk, Magadan Russian Far East, Russia – Contact address: Far East Geological Institute, FEB RAS 159, Prospekt 100-letiya, Vladivostok, 690022, Russia; phone: +7-4232-31-87-50; fax: +7-4232-31-78-47; e-mail: iagodconf@fegi.ru or fegi@online.marine.ru; web-site: <http://www.fegi.ru>

September 19-22

8TH INTERNATIONAL CONGRESS ON APPLIED MINERALOGY (ICAM 2004), Aguas de Lindoia, Sao Paulo, Brazil – Contact address: Henrique Kahn; phone: +55 11 3818-5787; fax: +55 11 3815-5785; e-mail: henrkahn@usp.br; web-site: <http://www.appliedmineralogy.org/icam.htm> or Dogan Paktunc, 555 Booth Street, Canada; phone: +1-613-947-7061; fax: +1-613-996-9673; e-mail: dpaktunc@nrcan.gc.ca; web-site: <http://www.icam2004.org>

*** September 20-24**

2ND INTERNATIONAL MID-EUROPEAN CLAY CONFERENCE, Miskolc, Hungary – Contact address: Dr I. Viczian, e-mail: viczian@ludens.elte.hu or Dr T.G. Weisburg, E-mail weiszburg@ludens.elte.hu

*** September 22-October 1**

SOCIETY OF ECONOMIC GEOLOGISTS, 2004 CONFERENCE, Perth, Australia – Contact address: phone: +61-8-9332-7350; website: www.segweb.org

September 27-30

MINEXPO INTERNATIONAL 2004, The National Mining Association, Las Vegas, Nevada, USA – Contact address: National Mining Association 1130, 17th Street NW, Washington, DC 20036, USA; phone: +1-202-4632626; fax: +1-202-4636152; e-mail: rmaddalena@nma.org; web-site: <http://www.nma.org>

September 27 – October 1 - SGA-Cosponsored

SEG: PREDICTIVE MINERAL DISCOVERY UNDER COVER, Perth, Western Australia – Contact address: Susan Ho, P.O. Box 80, Bullcreek WA 6149, Australia; phone: +61-8-9332 7350; fax: +61-8-9310 6694; e-mail: susanho@geol.uwa.edu.au; web-site: <http://www.cgm.uwa.edu.au/geoconferences/index.asp>

October 10-15

SOCIETY OF EXPLORATION GEOPHYSICISTS (SEG), 74TH ANNUAL MEETING AND INTERNATIONAL EXPOSITION, Denver, CO, USA – Contact address: Debbi Hyer, 8801 S. Yale, Tulsa, OK 74137, USA; phone: +1 918 497 5500; e-mail: dhyer@seg.org; web-site: meeting.seg.org

November 7-10

GEOSCIENCE IN A CHANGING WORLD: GSA (Geological Society of America) Annual Meeting, Denver, CO, USA – Contact address: GSA Meetings; phone: +1-303-447-2020; fax: +1-303-357-1072; e-mail meetings@geosociety.org; web-site: <http://www.geosociety.org/meetings/2004/>

*** November 8-9**

III INTERNATIONAL SEMINAR ON IN-SITU-REMEDIATION OF CONTAMINATED SITES, Sao Paulo, SP, Brazil – Contact address: Instituto Ekos Brazil, Av. Nacoes Unidas 13797, Bloco II, 21o., 04794000 Sao Paulo, SP, Brazil; phone: +55-11-5505-6371; fax: +55-11-5506-0834; e-mail: seminar@ekosbrasil.org; website: www.ekosbrasil.org/seminar

*** November 13-15 – SGA-Cosponsored**

Symposium on Hydrothermal Dolomite Reservoirs: a 3-day symposium including field trip and core workshop, bringing together mineral deposit and petroleum researchers, to examine the role of low-temperature hydrothermal dolomitization in carbonate-hosted base metal deposits and petroleum reservoirs, Colorado School of Mines, Golden, CO, USA - Contact address: itsusinus@cs.com Dave Broughton, danderson@rmi.net (Donna Anderson); website: <http://www.rmag.org/outcrop/outcrops/0504.pdf>

*** November 14-19**

IAVCEI, International Association of Volcanology and Chemistry of the Earth's Interior, Santiago, Chile – Contact address: website: www.sernageomin.cl/iaavcei/

*** November 15-18**

CHINA 2004, Asia's Premier Mining Congress & Exhibition, Beijing, China - Contact address: e-mail: info@china-mining.com; website: www.china-mining.com

November 22-23

GEOSUR 2004 - International Symposium on the Geology and the Geophysics of the Southernmost Andes, the Scotia Arc and the Antarctic Peninsula, Buenos Aires, Argentina – Contact address: Angela Marchetto, OGS, Borgo Grotta Gigante 42c - 34010 SGONICO TS, Italy; phone: +39 040 2140339; fax: +39 040 327040; e-mail: amarchetto@ogs.trieste.it; web-site: <http://www.ogs.trieste.it/GeoSur2004/GeoSur2004.html>

*** November 22-24**

XII LATIN AMERICAN GEOLOGICAL CONGRESS, Quito, Ecuador – Contact address: Guillermo Rosero, Juan León Mera y Orellana, Ed. MOP 3er Piso; phone: +593-2-2550041/550018; fax: +593-2-2550041, ext. 3313; e-mail: dinage@energia.gov.ec

*** December 14-15**

WORKSHOP ON RECENT ADVANCES IN MAGMATIC ORE SYSTEMS IN MAFIC-ULTRAMAFIC ROCKS (IGCP Project 479), Hong Kong – Contact address: Ms. Christina Yan Wang, Department of Earth Sciences, University of Hong Kong, Hong Kong; e-mail: wangyan2002@hkusua.hku.hk; fax: +852-2517 6912; website: <http://www.hku.hk/earthsci/IGCP479/>

2005*** January 5-6**

28th Mineral Deposits Studies Group Annual Winter Meeting, Belfast, Northern Ireland – Contact address: Miller O'Prey, Geological Survey of Northern Ireland, 20 College Gardens, Belfast BT9 6BS, Northern Ireland; e-mail: mop@bgs.ac.uk; website: www.mdsg.org.uk

*** January 18-20**

4TH ASIA PACIFIC SYMPOSIUM ON ENVIRONMENTAL GEOCHEMISTRY, Perth, Western Australia – Contact address: Organising Secretary, APSEG4, EIGG, Brodie Hall Building, 1 Turner Park, Bentley, WA 6102, Australia; phone: +61-8-9266-3577/7824; fax: +61-8-9266-7824; e-mail: apseg4@curtin.edu.au; website: www.apseg4.curtin.edu.au

February 28 – March 3

SME ANNUAL MEETING AND EXHIBITION, Denver, Colorado, USA – Contact address: Society for Mining, Metallurgy & Exploration; phone: +1-303-9739550; fax: +1-303-9793461; web-site: <http://www.smenet.org>

April 3-7

INTERNATIONAL CONFERENCE ON THE BIOGEOCHEMISTRY OF TRACE ELEMENTS (ICOBTE), Adelaide, Australia – Contact address: e-mail: 8thICOBTE@csiro.au; web-site: <http://www.clw.csiro.au/conferences/8thicobte/>

*** April 14-20**

5TH INTERNATIONAL SYMPOSIUM ON EASTERN MEDITERRANEAN GEOLOGY, Thessaloniki, Greece – Contact address: website: <http://geonet.geo.auth.gr/5thISEMG/>

*** April 24-27**

MINING ROCKS, Toronto, Canada – Contact address: Jean-Marc Demers, Director, Commercial Operations; phone: +1 514 939 2710, ext 1314; e-mail: jmdemers@cim.org or Chantal Murphy, Meetings Coordinator; phone: +1 514 939 2710, ext 1309; e-mail: cmurphy@cim.org;

website: <http://www.cim.org/mce/toronto2005/>

*** May 15-18**

THE ANNUAL MEETING OF THE MINERALOGICAL ASSOCIATION OF CANADA, THE GEOLOGICAL ASSOCIATION OF CANADA AND THE CANADIAN SOCIETY OF PETROLOGICAL GEOLOGISTS, Halifax 2005: Building Bridges - across Science, through Time, around the World, Halifax, Canada – Contact address: e-mail: rob.raeside@acadiu.ca; website: www.halifax2005.ca

May 20-24 - SGA-Cosponsored

GOLDSCHMIDT CONFERENCE 2005, University of Idaho, Moscow, Idaho, USA – Contact address: gold2005@uidaho.edu; web-site: www.gold2005.uidaho.edu

*** June 27-July 1**

INTERNATIONAL CONFERENCE ON MINING AND THE ENVIRONMENT AND METALS AND ENERGY RECOVERY: SECURING THE FUTURE, Skellefteå, Sweden – Contact address: Expolaris Kongresscenter, Skellefteå, SE-931 78 Skellefteå, Sweden; phone: +46-919-736000; fax +46-910-736010; e-mail: kongresscenter@skelleftea.se, tomas.from@metallgruppen.se, manfred.lindvall@boliden.se or helena.ornberg@kongresscenter.skelleftea.se

August 7-11

10TH INTERNATIONAL PLATINUM SYMPOSIUM: "Platinum-Group Element - from Genesis to Beneficiation and Environmental Impact, Oulu, Finland – Contact address: Congress Oulu, P.O. Box 56, Fin-90015 Oulun kaupunki, Finland; e-mail: congressoulu@ouka.fi; website: www.congressoulu.fi and <http://platinum-symposium.oulu.fi/>

*** August 20-23**

8TH BIENNIAL SGA (SOCIETY FOR GEOLOGY APPLIED TO MINERAL DEPOSITS) MEETING "MINERAL DEPOSIT RESEARCH: MEETING THE GLOBAL CHALLENGE". Beijing, China – Contact address: 8th SGA Biennial Meeting, Secretary: Dr. Jingwen Mao, Institute of Mineral Resources Chinese Academy of Geological Sciences, 26 Baiwanzhuang Road, Beijing, 100037 China; fax: +86-10 68 33 63 58; e-mail: mail@sga2005.com; website: <http://www.sga2005.com>

*** August 29 - September 2**

STOMP - STRUCTURE, TECTONICS AND ORE MINERALIZATION PROCESSES, Townsville, Australia. Organised by the Economic Geology Research Unit at James Cook University - Contact address: e-mail: Timothy.Baker@jcu.edu.au or Thomas.Blenkinsop@jcu.edu.au; website: www.es.jcu.edu.au/STOMP/

*** September**

22ND INTERNATIONAL GEOCHEMICAL EXPLORATION SYMPOSIUM (IGES): "From

Tropics to Tundra", Perth, Western Australia – Contact address: website: www.aeg.org

October 16-19

GEOLOGICAL SOCIETY OF AMERICA: ANNUAL MEETING, Salt Lake City, Utah, USA – Contact address: GSA Meetings Department, P.O. Box 9140, Boulder, CO 80301-9140, USA; phone: +1 303 447 2020; fax: +1 303 447 0648; e-mail: meetings@geosociety.org; web-site: <http://www.geosociety.org/meetings/index.htm>

October 16-21

SOCIETY OF EXPLORATION GEOPHYSICISTS (SEG), INTERNATIONAL EXPOSITION & 75TH ANNUAL MEETING, Houston, TX, USA – Contact address: Debbi Hyer, 8801 S. Yale, Tulsa OK 74137, USA; phone: +1-918-497-5500; e-mail: dhier@seg.org; web-site: meeting.seg.org

*** October 17-19**

INTERNATIONAL LEAD-ZINC PROCESSING SYMPOSIUM 2005, Kyoto, Japan – Contact address: e-mail: akiofuwa@waseda.jp

*** November 7-11**

20TH WORLD MINING CONGRESS & EXPO 2005, Tehran, Iran – Contact address: Mr. A. Almasi, Chief of Executive Committee, No. 25, Ostad Nejatollahi Avenue, Tehran 1599913717, Iran; e-mail: info@wmce2005.com; website: www.20wmce2005.com

*** November 30-December 2**

5TH FENNOSCANDIAN EXPLORATION AND MINING, Rovaniemi, Finland – Contact address: Regional Council of Lapland, Ms. Riitta Muhojoki, Project Secretary, P.O. Box 8056, Fin-96101 Rovaniemi, Finland; phone: +358-16-3301230; fax: +358-16-318705; website: www.lapinliitto.fi/fem2005

2006*** May 14-16**

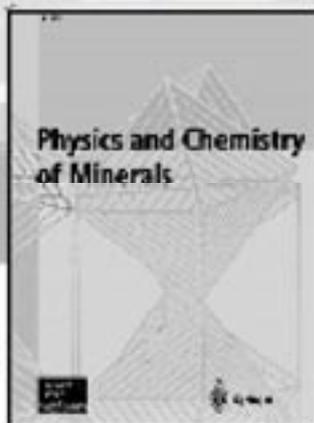
SOCIETY OF ECONOMIC GEOLOGISTS (2006 Conference), Keystone, Colorado, USA.

July 16-23

7th INTERNATIONAL CONFERENCE ON THE OCCURRENCE, PROPERTIES, AND UTILIZATION OF NATURAL ZEOLITES (ZEOLITE '06), Socorro, New Mexico, USA – Contact address: Dr. Bowman; e-mail: bowman@nmt.edu

*** July 23-28**

19TH GENERAL MEETING OF THE INTERNATIONAL MINERALOGICAL ASSOCIATION, Kobe, Japan – Contact address: websites: <http://www.congre.co.jp/ima2006>, <http://homepages.udayton.edu/~koziol/meetings.html>



Physics and Chemistry of Minerals

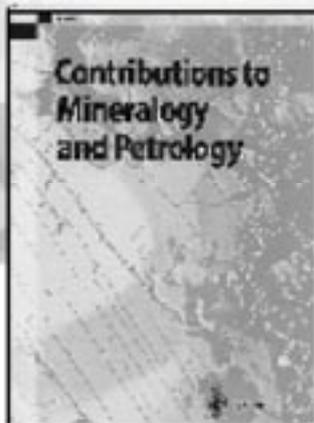
In cooperation with the International Mineralogical Association (IMA)

Editors:
M. Akaogi, A. Putnis,
M. Rieder, J.A. Tyburczy

Physics and Chemistry of Minerals presents physical and chemical studies on minerals or solids related to minerals. Its aim is to support interdisciplinary work in mineralogy and physics or chemistry. Particular emphasis is placed on applications of modern techniques or new theories and models to interpret atomic structures and physical or chemical properties of minerals.

Subscription information 2004:
Volume 31, (10 issues)
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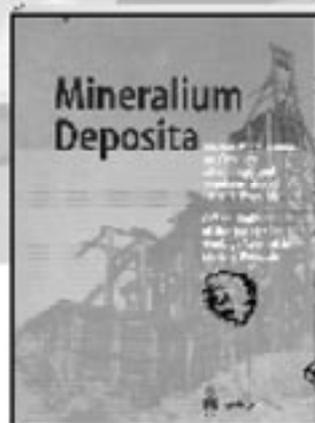
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Executive Editors:
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Mineralium Deposita

International Journal of Geology, Mineralogy and Geochemistry of Mineral Deposits

Official Bulletin of the Society for Geology Applied to Mineral Deposits

Editors:
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Society for Geology Applied to Mineral Deposits

8th Biennial SGA Meeting August 18-21, 2005 Beijing, China

第八屆國際礦床地質會議
北京

主題
礦床研究——應對全球挑戰

礦

Mineral Deposit Research: Meeting the Global Challenge

Co-organizers



- † China University of Geosciences (Beijing)
- ✶ Institute of Mineral Resources, Chinese Academy of Geological Sciences
- ▲ National Natural Science Foundation of China
- ⊕ China Society of Geology

- ⊙ Society of Economic Geologists
- ✕ International Association on the Genesis of Ore Deposits
- ⊙ Institute of Geology and Geophysics, CAS
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- ⊙ State Key Lab for Mineral Deposit Research (Nanjing University)

Contact: Dr. Jingwen Mao, Institute of Mineral Resources, CAGS, 26 Baiwanzhuang Rd., Beijing 100037, China, E-mail: mail@sga2005.com, Website: http://www.sga2005.com



8th Biennial SGA Meeting Beijing 18-21 August 2005 FIRST CIRCULAR



Invitation to the 8th SGA Biennial Meeting on "Mineral Deposit Research: Meeting the Global Challenge"

The 8th SGA Biennial Meeting will be held on August 18-21, 2005 in Beijing, the capital city of China. The Chinese economy is rapidly growing which is reflected in the expanding Chinese and global markets for minerals. The future mineral resource need of the global community depends on the discovery of new and unconventional resources that must be linked to ore deposit research. This meeting provides an exceptional opportunity to participate in technical presentations, workshops, and field trips by academic, industrial, and students dedicated to the study of ore deposits.

Beijing provides an exciting venue for the conference. Modern tourist facilities, interesting cultural attractions, and unique historical sites provide a background for the conference. Considering the tremendous progress in research and exploration of Chinese mineral deposits along with the remarkable economic growth during the last twenty years, the 8th SGA Biennial Meeting in Beijing provides opportunities for exchanging new ideas on research, exploration and mine development. Numerous field trips will be offered to some of the world's largest ore deposits. We warmly welcome you to make plans to participate in the 8th SGA Biennial Meeting in Beijing. Please return the "Expression of Interest" form below so that you will receive the Second Circular.

Co-Sponsors

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National Natural Science Foundation of China
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International Association on the Genesis of Ore Deposits
Institute of Geology and Geophysics, Chinese Academy of Sciences
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Proposed Field Trips

Pre-meeting field trips

1. Mineral deposits of western Inner Mongolia: Baiyun Obo (or Bayan Obo) giant Nb-REE-Fe deposit and Wulashan lode gold deposit
2. Giant orogenic gold deposits and related granitic rocks in the eastern Shandong province
3. Porphyry/skarn/stratabound Cu-Au-Mo deposits of the Middle and Lower Yangtze River region, China: Tongguanshan, Shizishan, Xinqiao, Yueshan, Chengmenshan, Wushan, and Yangjishan
4. Cenozoic metallogeny of Tibet: the Gangdese Cu-Mo and Au metallogenic belt
5. A cross-section of mineral deposits of Mongolia (sponsored by SEG and IAGOD)
6. Active and extinct hydrothermal systems of the North Island, New Zealand

Post-meeting field trips

7. Intrusion-related gold deposits of the northern margin of the North China craton, Hebei province
8. Base and precious metal deposits of northeastern Jiangxi province: Dexing porphyry copper, Jinshan orogenic gold, Yinshan volcanic Ag-Pb-Zn deposits
9. Skarn and greisen deposits in the southern Hunan province: Shizhuyuan W-Sn-Mo-Bi-Be, Xintianling W, and Furong Sn deposits

Proposed Scientific Programme

1. Mineral Deposits as Sensitive Indicators of Earth Environments through Time
2. Tectonic, Lithospheric and Deep Mantle Controls on Mineral Deposits
3. Metallogeny during Basin Evolution
4. Magmas and Base-Metal Ore Deposits
5. Magmatic and Metamorphic Hydrothermal Gold Systems
6. Submarine Ore Systems and Ancient Analogues (sponsored by IGCP-502)
7. Mineral Deposits in Carbonaceous and Calcareous Shales
8. Understanding Ore Systems through Precise Geochronology, Isotopic Tracers and Microgeochemistry
9. Geology and Economics of Non-Metallic Resources
10. Giant Metallogenic Provinces
11. Conceptual Targeting of Mineral Deposits Under Cover
12. Role of Bacteria and Other Organisms in Formation, Processing and Remediation of Mineral Deposits
13. Mesozoic Metallogeny of the Eastern Asian Margin
14. Cenozoic Metallogeny of the Tethys – Himalayan Orogen
15. Geodynamics and Metallogeny in the Altiid Orogen (sponsored by IAGOD and IGCP-473)
16. Metallogeny of Au-Ag-Se-Te Mineralized Systems (sponsored by IAGOD and IGCP-486)
17. Sandstone and Magmatic Rock-Hosted Uranium Deposits
18. Exploration and Mine Development Projects in Eastern Asia
19. Open Session

Note: No more than 15 sessions will be finalized for the meeting and these will be determined after the responses of the first circular are received

10. Giant mineral deposits of central China: Daijiazhuang Pb-Zn sedex deposit and Jinchuan mafic-ultramafic rock-hosted Cu-Ni sulfide deposits (Gansu province), and the Baguamiao and Jianchaling lode gold deposits (Shanxi province)
11. Cambrian black-shale hosted Ni-Mo-Au-PGE, barite and phosphorus deposits and Carlin-type gold deposits in Guizhou province
12. Salt lake (Li-Cs-B) deposits in Tibet
13. Dachang Sn-Zn-Pb skarn and manto deposits, Guangxi province
14. World-class magnesite-talc-borate-jade deposits in the eastern Liaoning province
15. Lanping Mesozoic-Cenozoic basin in northwestern Yunnan: "Jinding-Type" Pb-Zn and Jinman epigenetic copper deposits
16. MVT-style Pb-Zn deposits in Guangdong and Guangxi provinces: Fankou, Siding, and Beishan
17. World-class Toyoha polymetallic deposit, Hokkaido, Japan
18. Epithermal gold deposits in southern Kyushu, Japan
19. Miocene Kuroko- and vein-type deposits, and active geothermal areas, northern Honshu, Japan

Short Courses

1. Supergene zinc deposits - geology, case studies, genesis. August 17, 2005 by Gregor Borg (borg@geologie.uni-halle.de) (maximum: 30 participants)
2. Geochemical blocks: Concept and methodology for predicting large to giant ore deposits. August 17-18, 2005 by Xie Xuejing (xuejing@public.bta.net.cn) and others (maximum: 50 participants)
3. Gold deposits in Asia: genesis, distribution and exploration. August 17-18, 2005 by Nie Fengjun (nfjj@mx.cei.gov.cn), Shunso Ishihara and others (maximum: 50 participants)
4. Gold deposits: New Development and Exploration (SEG workshop). Richard Goldfarb (Goldfarb@usgs.gov) and others.

Social Program

Registered participants in the conference and accompanying members are invited to attend the ice-breaking party and conference dinner, which are included in the registration fee.

During the conference, trips are arranged to visit the Palace Museum (Forbidden City), Mao Zedong Mausoleum, Tian'anmen Square, Summer Palace, Great Wall and Ming Tombs, Lama Temple, Temple of Heaven and Hutong Tour. Shopping, cooking lessons, and assorted other activities will be offered. The prices and other details for the trips will be provided in the Second Circular.

Venue and Climate

The Meeting will be held in the China University of Geosciences, 29, Xueyuanlu Road, Haidian District, Beijing 100083, PR China

The weather during the conference should be warm with temperature around 32°C.

Publications

A volume with Extended abstracts for the conference will be provided to each registrant.

Meeting Language

English

Insurance

The Organizing Committee will not be liable for any illness or personal accidents of the meeting participants. Attendees are expected to have their personal insurance coverage.

Accommodation

Various levels of hotels from economy to luxury (10 to 100 USD per day) are available. The Accommodation Form and the price list will be included in the Second Circular.

Registration Fee

Details on fee and payments will be provided in the Second Circular.

Deadlines and Key Dates

June 30, 2004, deadline for response to First Circular

September 30, 2004, deadline for response to Second Circular

January 31, 2005, deadline for submission of extended abstracts

Contact address

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 Institute of Mineral Resources
 Chinese Academy of Geological Sciences
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 Beijing 100037, China
 Tel: +86 10 68327333 Fax: +86 10 68336358
 E-mail: jingwenmao@263.net / mail@sga2005.com



Expression of Interest

SGA BIENNIAL MEETING, BEIJING 18-21 AUGUST 2005



(Registration form will be in the Second Circular and on the website <http://www.sga2005.com>)

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M F Student Accompanying person

Members of SGA/SEG/IAGOD/CSG Yes Non

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Sessions to join: (please write the number of the session as it appears on page 19 of this issue):

Do you wish to give a presentation? Oral Poster

Provisional title of your paper:

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Field trips to join: (please write the number of the field-trip as it appears on pages 18-19 of this issue):

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