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1. News from the IUGS Secretary General Stan Finney

Please visit the IUGS Facebook page if you have not seen it. IUGS Councilor Amel Barich manages it and regularly posts news, reports, and activities of interest. Many officers and members of the IUGS are making final preparations for RFG2018 to be held in Vancouver, Canada, 16-21 June 2018. The organizers have developed a large, varied technical program and an impressive group of keynote speakers. In the last month, the IUGS Executive Committee voted:

1) to approve Myanmar as an Adhering Member with provisional status, once the annual subscription is paid, until a vote on active status at the meeting of the IUGS-IGC Council at the 36th IGC ;

2) to approve continuation of IUGS as an Associate Member of OneGeology;

3) to approve the placement of the IUGS logo and that of the IUGS Commission on Geoscience Education, Training and Technology Transfer (COGE) on a digital geoscience textbook written by members of COGE and the International Geoscience Education Organization;

4) to approve Dr. Dolores Pereira, University of Salamanca, Spain, as chair of the IUGS Publications Committee (2018-2022), membership of the Publications Committee, and changes to IUGS statutes to accommodate a Publications Committee for a four-year term that begins and ends in the mid-terms of two successive IUGS Executive Committees.

The IUGS Bureau will meet in Vancouver, Canada, 20-21 June 2018 and will meet in Japan in November 2018.

2. Coming Soon: RFG 2018 16th to 21 June in Vancouver, Canada



Human existence and progress is based on a sustainable supply of energy, minerals and water. In order to provide resources, we must understand the complexity of the Earth. Equally important is the need to develop and utilize these resources in better and cleaner ways that minimize impacts. Success will require a consensus on how we work together.

The International Union of Geological Sciences (IUGS), the Canadian Federation of Earth Sciences (CFES), the Canadian Institute of Mining, Metallurgy and Petroleum (CIM), the Geological Association of Canada (GAC) and the Mineralogical Association of Canada (MAC) are partnering to bring industry, academia and governments and civil society together to tackle these issues.

The Resources for Future Generations conference (RFG2018) takes its theme from a new IUGS initiative of the same name designed to mobilize geoscientists, policy-makers and other stakeholders to explore resource and related sustainability issues.



45 plenary and keynote speakers are confirmed to present over 4 days on different themes of the conference. You do not want to miss them! Scheduling 1,200 oral presentations is quite the task. With the detailed schedule of presentations to be published by the end of April, download the **list of sessions being presented**.

What to expect:

We aim to provide participants with a program that will explore six vital and inter-related themes that are multidisciplinary in nature: the Earth, Energy, Minerals, Water, Resources and Society, and Education and Knowledge. Grounded in fundamental earth science, the conference will serve as a forum for participants to discuss their research initiatives and activities, as well as the key issues and trends. These topics are central to the United Nations 2030 Sustainable Development Goals. This unique collaborative event will provide an unprecedented view of the earth and the availability of resources for human sustainability. Expect big picture thinking, dialogue, technical presentations, and social interaction. Established science, innovation, policy, social benefits, and impact will all be part of RFG2018.

Download the programme at <http://www.rfg2018.org/> and consult the last two pages of this E-Bulletin.

Organizers



Supporters



3. IUGS Journal EPISODES

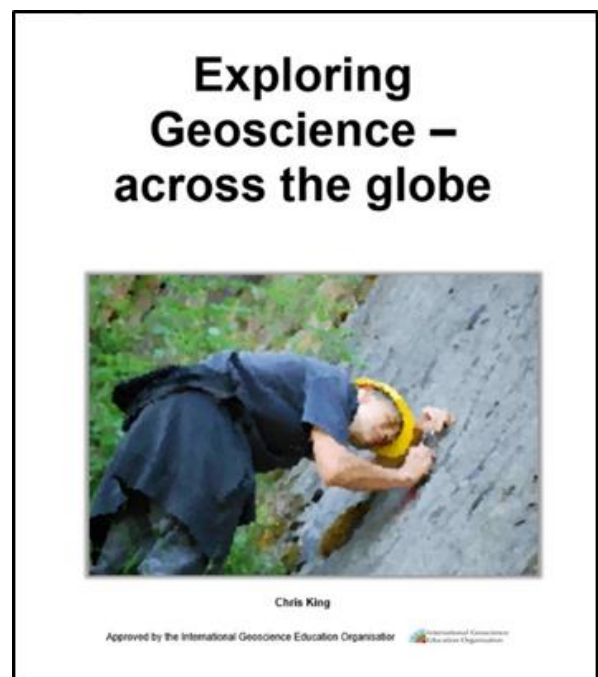
Please note that in March 2018 the new online submission and review system for papers submitted to Episodes became available on the Episodes website www.episodes.org.

All papers should now be submitted via the website.

It is expected that in a few weeks time all approved papers for publication in the journal will be published online first so authors and readers will no longer have to wait for the printed issue to be published.

4. A new international geoscience textbook

An International geoscience textbook is being written for 16-year olds and their teachers. The initial 'International version' should be published online for free download by the time of Resources for Future Generations conference in Vancouver in June. After that, colleagues around the world are invited to 'regionalise' the textbook for their own country or region, by replacing the international photos with local photos, adding geoscience 'interest boxes for their own region and translating the text, where necessary. In this way they can produce a freely downloadable geoscience textbook for their own region or country.



Cover of the international version of the textbook.

9. Why explore geoscience?
Geoscience is the scientific study of our whole planet. Nowadays, it is even more than that because it includes planetary geology too. It involves the many elements of geology, such as geochemistry, geophysics, palaeontology, hydrogeology and engineering geology, but is wider, because it also includes meteorology, oceanography, environmental science, soil science and study of the solar system. Geoscience uses evidence from the planet's past and present to predict the future, but also uses evidence from the present to 'predict' what happened in the past. It focuses elements of biology, chemistry, physics, Maths, geography and engineering into a study of the Earth and the planets.

One of the joys of studying geoscience is that everyone can do it. When children pick up interesting pebbles on a beach and begin to think why they are interesting, they are starting to ask the questions that geoscientists ask. When they collect several interesting pebbles, or different colours of sand, or different fossils, they are beginning to sort things out, or to classify Earth materials, as geoscientists do. When they ask why the sand forms interesting shapes, they are beginning to investigate Earth processes, just like geoscientists.

Figure 0.1. Interesting pebbles and sand shapes.

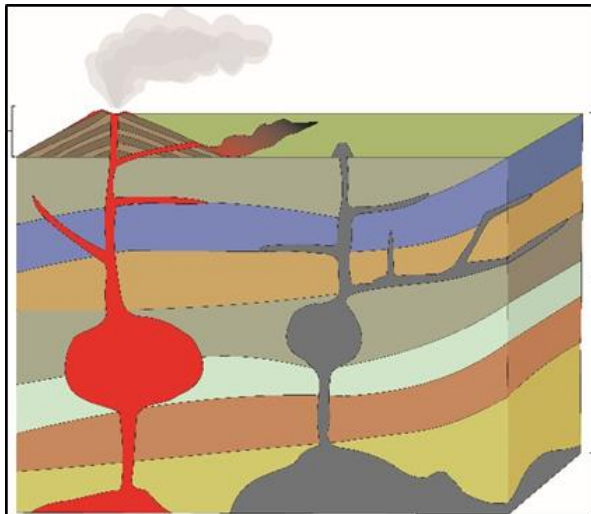


If you want to study geoscience further, you might be able to do this at school or college or by taking a university degree. Many people study geology just because they enjoy asking and answering questions about how the Earth works or because they enjoy collecting interesting things. But others become professional geologists, spending their whole lives asking and answering geoscience questions. They investigate the Earth, from the tropics to the poles, from the highest mountains to the deepest seas or by searching for new Earth resources, better ways of disposing of waste or the best places to build new buildings safely.

This is what this book is about. It begins by looking at the whole Earth system, the Earth within the solar system and how all this has changed over time. It brings together studies of the Earth's geosphere, hydrosphere, atmosphere and biosphere and looks at where the resources and power supplies we need are found. It focuses on Earth hazards and environmental issues and how these change human history and it looks at what geoscientists do and how.

So, if all this interests you, read on – you will already be starting to think like a geoscientist.

Introductory chapter of the geoscience textbook.



One of the textbook diagrams – drawn with no labels to assist the translators.

5. The forthcoming Quadrennial IAGOD Symposium in Argentina; the first to be hosted in South America



The 15th Quadrennial International Association on the Genesis of Ore Deposits Symposium will be held in the city of Salta, Argentina, 28th to 31st August 2018. The focal theme for this Symposium is: “Ore deposits: providing resources for present and future generations”. It is worth highlighting that this is the first time for both Argentina and South America to host such important meeting.

South America, particularly the Andean region includes some of the richest metallogenic provinces in the world, such as the richest Cu-Mo province, one of the most extensive and rich Sn belts, one of the richest Sb belts, the most important concentrations of Li in salars and one of the richest borates provinces. Also it hosts some of the largest individual ore deposits such as Cerro Rico de Potosí, Llallagua, Chuquicamata and El Teniente mines.

South America offers excellent geology, hosting world class mineral deposits covering the past 2 billion years of Earth’s Metallogenic history, encompassing almost every conceivable metallogenic process. Thus the region offers something that will tempt every economic geologist and metallogenist. The Symposium also provides an invaluable occasion for training

local scientists in various aspects of metallogeny and research tools. Argentina commits to enhance the participation in the IAGOD Symposium of young geoscientists, students and delegates from less advantaged countries from around the globe.

Further information can be accessed through the website: <http://15iagods.org/>

6. Global Black Soil Critical Zone Geo-Ecological Survey (BASGES)

Shenyang Geological Survey of China Geological (SGS) Survey proposed an Initiative, last August, on Geo-ecological Survey and Comparisons of Global Black Soils (Mollisols) Critical Zones based on their geochemical survey and remote sensing dataset collected since 2006 in Northeast China. Since then, they have begun to connect with other countries that have black soils.

SGS organized the 1st workshop on BASGES in Shenyang last December. 15 international institutes from 10 countries including IUGS CGGB, USGS, EuroGeoSurveys, and the Russian Academy of Science etc. were represented at the workshop. The scientists signed an Initiative on Global Black Soil Critical Zone Geo-Ecological Survey together to show their interests on black soils. The scientists proposed together to register the IBSS as a collaboration platform for the black soil research. It was registered successfully now, and an opening ceremony is expected to be held during the 2nd workshop on BASGES.

The black soil research team proposed an IGCP program named “Land resource evolution mechanism and its sustainable use in global black soil critical zone” in 2017. They received the result as “Provisionally for one year without funding” as a New IGCP-665 Project starting in 2018 within Earth Resources Theme.

SGS has now an annual budget about 5 million USD allocated into the black soil research. This will continue in 2018. The scientists are seeking other funds to support this research too.



Earth Resources Project

[IGCP 665: Land resource evolution mechanism and its sustainable use in global black soil critical zone](#)



Due to many centuries of agricultural use, essential black soils have deteriorated due to erosion, contamination and salinization, and degradation, threatening their continued use for agriculture. This project focuses on the study of black soils of the global critical zone across Northeast China, North America, and southern Russia-Ukraine, which contribute significantly to global agricultural productivity.

Experts from all over the world will collaborate through this project, using remote sensing and geochemical processes and methods, to make significant advances in our understanding of the causes of soil degradation and devise methods for soil conservation.

7. Mineral resources for low-carbon and sustainable future

With the support of the Bellona Foundation (Oslo), on Friday 13 April members of the NASIC group gathered in Moscow to hold a symposium on “Mineral resources for low-carbon and sustainable future“. The symposium was hosted by the GORPROMEXPO, an event of the Russian mining industry and miners’ associations at Gostinyy Dvor, Moscow, Russia.

The purpose of this endeavour was to discuss and exchange views on:

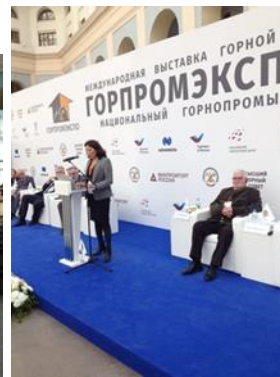
- I. Meeting a two- to threefold increase in the demand of metals and minerals that will be needed to deliver the UN Sustainable Development Goals and the new electricity generation and transmission technologies to decarbonise the global economy implied by the Paris Agreement;

II. Social acceptance of mining and promotion but using the least environmentally damaging technologies;

III. International resource governance.

During this one-day symposium, there were 14 presentations comprising three discussion sessions and a closing event. As key note-, IUGS invited Patrice Christmann, former deputy director of BRGM and a current member of the International Resource Panel, and delegated two NASIC members, Dr. Natalia Yakovleva and Roland Oberhänsli. Local arrangements were handled by Larisa Broder and Anna Kireeva of the Bellona Foundation and made possible by Aleksandr Petrovich Verzhanskyi the General Director of "Miners of Russia" and organiser of GORPROMEXPO. We are much indebted to these three persons for making this successful event possible.

IUGS would like to thank the Russian Ministry of Industry and Trade as well as the Russian Ministry of Natural Resources and Ecology, Valeryi Afonasyevich Yazev, President of the Miners of Russia, Yuriy Konstantinovich Shafran, Chairman of the Mining Council and Nikolay Nikolayevich Melnikov, the scientific supervisor of the mining institute of Russian Academy of Sciences Kola Scientific Center.



8. Global Stone Congress in Ilheus (Bahia), Brazil

The Global Stone Congress (GSC) held its 6th session in Ilheus (Bahia), Brazil, from 26th to 29th of April. The aim of this Congress was to assemble international participants interested in natural stones, from geologist to architects, designers, engineers, representatives of research and teaching institutions and technological centers linked to the natural stone industry. More than 150 persons attended the Congress which included sessions on Architecture, Technology, Sustainability and Workshops for discussion and to promote debate on current challenges related to natural stones:

<http://www.globalstonecongress2018.com.br/presentation.htm>

ABIROCHAS and CETEM were the main promoters of the GSC. Maria Heloísa Barros de Oliveira Frascá, member of the board of the IUGS Heritage Stones Sub-Commission (HSS), was one of the organizers. Several members of the HSS were invited as speakers, having the opportunity to promote the IUGS activities associated with natural stones. Some other HSS members participated in the Congress with IGCP-637 financial help.



Heloisa Frascá, Björn Schouenborg, Piero Primavori and Lola Pereira
at the Global Stone Congress in Ilheus (Bahia), Brazil

After the meeting, technical visits were organized to look at some important quarries in the state of Bahia: the blue granite of Potiraguá, known as Blue Sodalite, and the pegmatite of Macarani, cutting a strongly foliated biotitic paragneiss. These spectacular quarries are active in the extraction of the three stones for the dimension stone industry. SOMIBRAS (the Brazilian Mineral Association) and Ouro Campo are thanked for arranging the visits.



Global Stone Congress participants at the Blue Sodalite quarry and a close view of a block from the quarry. Approximate dimension of the block: 1 m³



Macarani pegmatite, cutting a paragneiss



A more extensive report on this Congress and field trip will be included in next HSS circular, available at our web site: www.globalheritagestone.com

The Heritage Stone Sub-Commission is very thankful for the support from ABIROCHAS (and the kindness of Cid Chiodi) and CETEM (and the kindness of Nuria Fernández Castro) which enabled our successful session to take place at the Global Stone Congress in Ilheus.

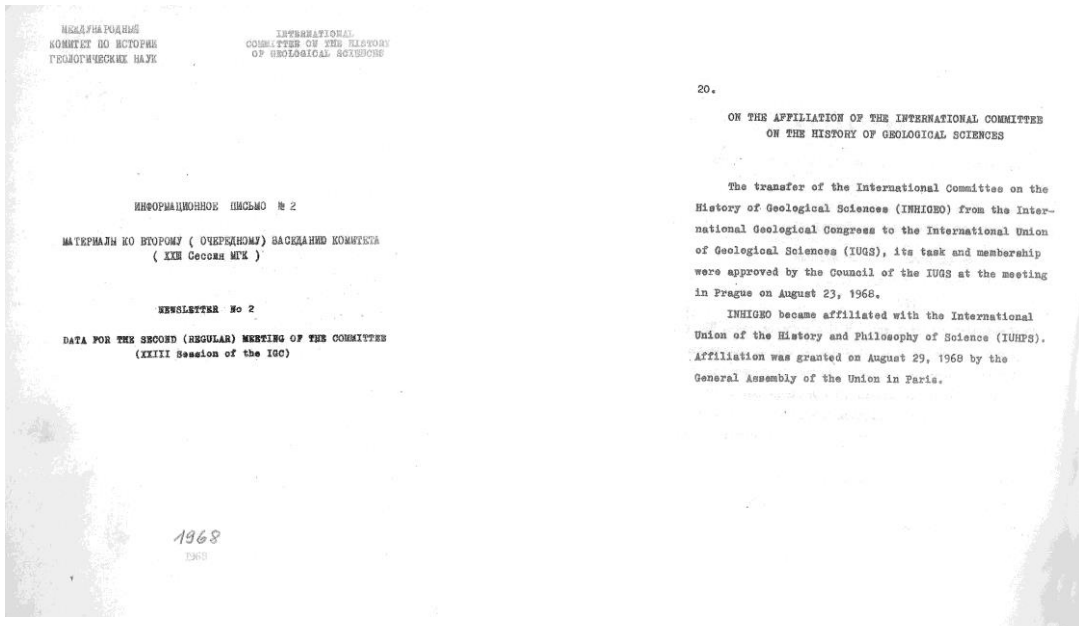
9. “Anniversaries”: INHIGEO, IGC 1968, 50 years ago

By Marianne Klemun, Professor of History of Science, Department of History, University of Vienna, Austria; INHIGEO Secretary-General, 2016–2020 (Marianne.klemun@univie.ac.at)

The idea of creating an International Committee (Commission since 1980) on the History of Geological Sciences at the IGC was consistently pursued over many years within different institutions of the Soviet Union by Vladimir Tikhomirov, a Russian geologist. After the 21st IGC in Copenhagen in 1960, when it was not accepted, the proposal was again presented at the 22nd IGC in New Delhi 1964. The first ‘Constituent Assembly’ of the INHIGEO took place in Yerevan (1967) and, at the end of a long path, was approved by the IGC in Prague in 1968 even though the Congress was cut short by military action. Nevertheless INHIGEO was legally constituted in 1968 by the IUGS Council without a regular business-meeting.

Fuller details are available on:

http://iugs.org/uploads/Anniversaries_INHIGEO_IGC_1968.pdf



INHIGEO Newsletter Nr 2, 1968.
<http://www.inhigeo.com/annual.html>

INHIGEO Newsletter Nr 3, 1969.
<http://www.inhigeo.com/annual.html>

10. Geolodía 18: Look where you walk

Geolodía ('Geology-Day') is an initiative, organized in Spain, since 2005 trying to bring geology closer to the general public through the observation of landscapes and rocks in the field. This year with the focus "Look where you walk", Geolodía showed how the materials that we have below our feet is critical for our lives and that Geology is a fascinating science. 9613 people participated on 12th and 13th May 2018 in 56 free field excursions in all Spanish provinces and Andorra guided by about 600 volunteers.

All the details of Geolodía 18 can be found

in: http://www.sociedadgeologica.es/divulgacion_geolodia.html

More info on Geolodía is available at:

<https://www.geolsoc.org.uk/Geoscientist/Archive/May-2016/Geolodia>.



Zaragoza 1: Geolodía 18 in Zaragoza looking for cyclicity



Toledo 18: Geolodía 18 in Toledo, analysing metamorphic rocks



Menorca 18: Geolodía 18 in Menorca, Geology in the walls

11. IUGS PUBLICATIONS COMMITTEE

The IUGS Executive has approved a new Chair of the IUGS Publications Committee to take over from Dr Brian Marker who has chaired the Committee since 2013. She is Professor Maria Dolores Pereira of the University of Salamanca, Spain. “Lola” Pereira is warmly welcomed to take over her new role. The hand-over will take place at the annual meeting of the Committee in July 2018.

The agenda and papers for that meeting will be prepared soon. Members of the IUGS Community are invited to draw attention to any IUGS publications issues that they feel need to be discussed and/ or clarified so that these can be



Dr Lola Pereira was giving a talk on Heritage Stones at the last Global Stone Congress

Members of the IUGS Community are invited to draw attention to any IUGS publications issues that they feel need to be discussed and/ or clarified so that these can be considered for inclusion in the Agenda. Responses should be sent to marker.brian1@gmail.com by the 8th June.

12. UNESCO Global Geopark: Las Loras, Spain

Las Loras was recognized by UNESCO as Global Geopark in 2017. On Saturday 19th of May 2018, the scientific committee of the Las Loras Global Geopark met in Aguilar de Campoo (Spain) for the first time. At this meeting several experts from different research institutions and Spanish universities explored different research aspects and activities to enrich the already interesting program of this Geopark. The conclusions were the recognition of the importance of the promotion of scientific studies in the area and the important role of the scientific committee in arbitrating and advising on decisions that will affect the scientific content of the Geopark. After the scientific meeting, a guided tour around the most interesting sites of Las Loras took place. For more information on the Geopark, visit the site: www.geoparquelasloras.es



Meeting Geoparque Las Loras



Field trip to the Geoparque Las Loras

13. IAPG - International Association for Promoting Geoethics

Geoethics at the RFG 2018 Conference:

IAPG has organized or supports 5 sessions on different issues of geoethics under the Theme "Resources and Society" at the RFG Conference that include 11 keynote speeches, 28 oral and 10 poster presentations. These are:

- Session RS13: Geoethics and Environmental and Social Responsibility: Doing the Right Thing to Develop Resources for Future Generations (19 June 2018, part I 8:30-10:00, part II 10:30-11:45, part III 13:30-15:00, room 119)
- Session RS8: Geoethics and the Responsible Conduct of Scientists (20 June 2018, 8:30-10:00, room 119)
- Session RS9: Geoethics in georisks management for a safer and more resilient society (20 June 2018, 10:30-11:45, room 119)



- Session RS10: Geoethics in geoscience education, communication and citizen science: experiences, approaches, and concepts (20 June 2018, part I 13:30-15:00, part II 15:30-17:00, room 119)
- Session RS12: Forensic Geology: Ethics, Communication, Regulation and Opportunities (21 June 2018, part I 8:30-9:45, part II 10:30-12:00, room 119)

Details about the IAPG sessions and list of presentations: <http://www.geoethics.org/rfq2018>

New section of IAPG - IAPG-France:

The section will be co-chaired by Michèle Barbier and David Crookall
IAPG has 29 national sections: <http://www.geoethics.org/sections.html>

MinerLima 2018:

IAPG-Peru is organizing the 4th MinerLima, an International Exhibition of Minerals (Feria Internacional de Minerales) that is held in Lima (Peru). Venue: Pontificia Universidad Catolica de Peru. Activities planned: short courses, conferences and workshops (for children and the general public), showcase (exhibition-sale of mineral samples), geological excursions and guided tours (post-event). Read more: <http://www.minerlima.com/>

More news on the IAPG can be found at: <http://www.geoethics.org>

14. IUGS Initiative on Forensic Geology – obituary of Dr R C Murray

Dr Raymond C Murray, Forensic Geologist, died on 7th April 2018, aged 88. His first forensic case was in 1973 when he analysed soil on behalf of an agent from the US Bureau of Alcohol, Tobacco and Firearms. He co-authored the first text book on forensic geology in 1975. Dr Murray was inspirational, charismatic and a leading pioneer in forensic geology. Forensic geology would not have advanced to the level it is today if it was not for the work of Dr Murray. He encouraged the establishment of the Geological Society of London, Forensic Geoscience Group (FGG) and in 2010 he became the first recipient of the FGG award. He was the IFG Honorary Committee Member, and he supported IFG throughout the world. His legacy and global contributions to forensic geology will continue for generations within the police, law enforcement and geology. Further information can be found on the link: <https://www.microtracellc.com/in-memoriam-ray-murray/>



Dr Raymond C Murray
(Source: [www forensicgeology.net](http://www.forensicgeology.net))



EDITORS' NOTES:

CONTRIBUTING TO THE IUGS E-BULLETIN, WEBSITE AND SOCIAL MEDIA

IUGS wishes to better co-ordinate public cation of information on **news, events and achievements** arising from IUGS activities (**not science reports or papers**). All IUGS Commissions, Task Groups, Initiatives and IGCP projects are requested to provide a steady flow of material. Contributions from Adhering Bodies and Affiliates will also be welcomed.

To aid co-ordination and standardization, IUGS has introduced a preferred format and a monthly timetable.

Format of submitted material:

Contributors should provide:

For the E-Bulletin: 2 or 3 sentences with between 1 and 3 illustrations (photographs, diagrams etc.) with captions as separate .jpg, .gif or .png files with a resolution of 150 dpi; optimally accompanied, by:

For the web site: a concise text of about 0.5 to 1 A4 page (up to about 600-700 words), if possible providing a web-link (e.g. to an IUGS activity website).

The short text in the E-Bulletin will be hyperlinked to any longer text which will be placed on the IUGS website. Items that are not in reasonably good English will be returned for improvement. Others will be edited for use of English if necessary. If proposed contributions are too long, they will be returned for shortening. All images must, if necessary, be copyright-cleared before submission.

Each contribution to the IUGS E-Bulletin, website and/or social media should be marked as to which target medium or media it should be published in. Each contribution should be sent, at the same time, to the following addresses:

Kristine.Asch@bgr.de	(E-Bulletin editor)
Susanna.Koesterke@bgr.de	(E-Bulletin secretary)
giuseppe.dicapua@ingv.it	(webmaster)
amel.barich@gmail.com	(social media officer)



Timetable:

The idealized timetable for the E-Bulletin is:

1. IUGS sends a reminder to leaders of activities in the last week of each month;
2. Contributions should be provided by the 16th day of that month (**items arriving after that date cannot be included in the next monthly issue**);
3. IUGS will evaluate all submitted items in terms of urgency and will allocate these to the next monthly issue or a later issue and will also check that these comply with IUGS policy for publications and ethics;
4. The IUGS Team will aim to compile that month's E-Bulletin by the 25th day of the month and send it to the IUGS Secretariat;
5. The IUGS Secretariat will dispatch the E-Bulletin to the IUGS Community on, or before, the last day of each month;
6. Long versions of material will be posted on the IUGS Website in coordination with the publication of the relevant E-Bulletin.

This timetable will be varied, as necessary, to allow for public holidays that affect the E-Bulletin Team and IUGS Secretariat such as Christmas and Chinese New Year.

NOTES

- If you require notices, information on publications, etc. to be considered for inclusion in forthcoming IUGS e-bulletins, please mail to Kristine.Asch@bgr.de and amel.barich@gmail.com.
- Please check the IUGS [Calendar of Events](#) for upcoming scientific meetings this coming month. If you require information on international conferences, meetings, etc. to be considered for inclusion in this Calendar please mail to: giuseppe.dicapua@ingv.it
- To be added to or removed from the IUGS e-bulletin distribution list, please <mailto:iugs.beijing@gmail.com> or secretariat@iugs.org.
- Follow the IUGS on Social Media! We are on [Facebook](#), [Twitter](#), [LinkedIn](#) and [Google+](#).
- Check the IUGS web site: <http://www.iugs.org/>

Edited by:

*Kristine Asch (IUGS, BGR), Susanna Kösterke (BGR), Amel Barich (IUGS)
and Brian Marker (IUGS)*

www.iugs.org



An IUGS Event 
RFG 2018
RESOURCES FOR FUTURE GENERATIONS

**PREMIER INTERNATIONAL CONFERENCE ON
ENERGY • MINERALS • WATER • THE EARTH**

June 16-21, 2018

Vancouver Convention Centre

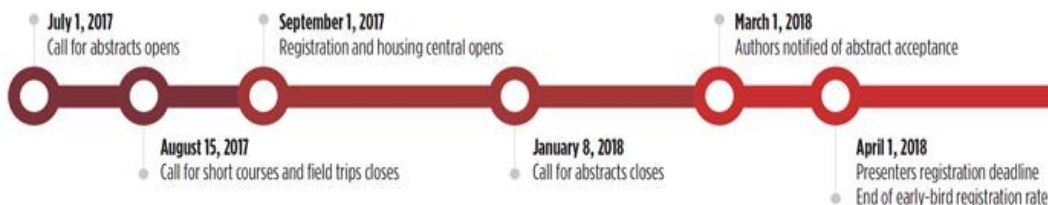
Vancouver, BC, Canada

WHERE ON EARTH WILL YOU BE IN 2018?

Resources for Future Generations is a global conference covering earth science, major resources—energy, minerals and water—and societal implications. Join us for this exciting event in magnificent Vancouver, Canada!



KEY DATES FOR YOUR CALENDARS:



Organizers

Canadian Institute of Mining, Metallurgy and Petroleum  Institut canadien des mines, de la métallurgie et de la pétrole

 GEOLOGICAL ASSOCIATION OF CANADA

 MINERALOGICAL ASSOCIATION OF CANADA

Supporters

 CFES • FCVT

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Find more information at

RFG2018.ORG



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An IUGS Event



RFG 2018

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-  **Exhibition**
3-day trade show
-  **Students & Emerging Leaders**
Dedicated sessions and events
-  **Networking**
Knowledge exchange and business opportunities

JUNE 2018

BOOKMARK THE DATE

3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30



 #RFG2018

Get the latest updates at RFG2018.org

Organizers

Canadian Institute of Mining, Metallurgy and Petroleum  Institut canadien des mines, de la métallurgie et du pétrole



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