



News at a Glance

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1. IUGS Awards

Early Career Medal

Dr. Mónica Sánchez-Román, Assistant Professor of Geomicrobiology at Vrije Universiteit Amsterdam, will be recognized with the IUGS Early Career Award, which will be presented during the Opening Ceremony of the 36th International Geological Congress, Delhi, India, 2-8 March 2020. The award recognizes an early career scientist whose original research marks a major advance in Earth sciences. The research contributions of Dr. Sánchez-Román have advanced understanding of isotopic signatures and microbes in carbonate deposits and in the detection of microbial life in sedimentary minerals of extreme environments.

James H. Harrison Medal

Dr. Peter Bobrowsky, Emeritus Scientist with the Geological Survey of Canada, will be recognized with the IUGS James M. Harrison Distinguished Service Award, which will be presented during the Opening Ceremony of the 36th International Geological Congress, Delhi, India, 2-8 March 2020. The award recognizes many years of distinguished service to the Union. Dr. Bobrowsky served as Vice-President of IUGS from 2000 to 2004 and then as Secretary General from 2004 to 2012. He was IUGS Webmaster from 2008 to 2017 and served in the Publications Committee. He has also devoted efforts to several IUGS international working groups. The Harrison Award honors the memory of Dr. James Merritt



Harrison, a Canadian geologist, scientist and public servant who was one of the founding members of the Union and its first President.



Fig. 1 - Dr. Mónica Sánchez-Román



Fig. 2 - Dr. Peter Bobrowsky



Fig. 3 - Dr Thure Edwards Cerling

Emile Argand Medal

Dr. Thure Edwards Cerling, Distinguished Professor of Geology and Geophysics and Distinguished Professor Biology at the University of Utah, Salt Lake City, USA, will be presented with the IUGS Émile Argand Medal during the Opening Ceremony of the 36th International Geological Congress, Delhi, India, 2 March 2020. The Émile Argand Medal is the IUGS highest award. It is intended to honor an active senior geoscientist of high international recognition and outstanding scientific record. His/her work might have included at least one major discovery that has been strongly influential in the understanding of Earth System Sciences. Dr. Cerling is an extraordinarily influential and prolific scientist whose research has shaped our current understanding of how climate has shaped vegetation, landscapes, and faunal evolution, including seminal work on human origins. One of his many significant contributions is the use of carbon isotope compositions of soil carbon and carbonates to identify for the first time the global expansion of C4 plant dominated ecosystems 5-8 million



years ago. Dr. Cerling is considered a titan in the field of paleoecological applications of stable and cosmogenic isotopes and is recognized globally for his innovative and transformative research. Dr. Cerling will present a keynote lecture at the Congress on the morning of 3 March.

Hutchison Young Scientists Foundation Awards

Through the vision and inspiration of William W. Hutchison, IUGS Secretary General (1976-1980) and IUGS President (1984-1987), the Hutchison Young Scientists Foundation was established by the International Union of Geological Scientists to promote the professional growth of deserving, meritorious young scientists from around the world by supporting their participation in important IUGS-sponsored conferences, particularly the International Geological Congress. With funds from the Hutchison Foundation, the IUGS has awarded travel support to 15 early career earth scientists to attend the 36th International Geological Congress in Delhi, India. These scientists are Michael Anenburg, Australian National University, Australia; Christopher Baiyegunhi, University of Limpopo, South Africa; Roberta Boní, University of Pavia, Italy; Musawenkosi Buthelezi, Golder Associates Africa, South Africa; Emmanuel Chinkaka, Malawi University of Science and Technology, Malawi; Joesfina Hamutoko, University of Namibia, Namibia; Han Zhong, Chengdu University of Technology, China; Santanu Mukherjee, IITGN - Indian Institute of Technology Gandhinagar, India; Jean-Robert Nshokano, CRGM (Centre de Recherche Géologiques et Minières), Democratic Republic of the Congo; Ahmed Radwan, University of Innsbruck, Austria; Luca Smeraglia, Université de Franche-Comté, France; Luke Viljoen, gold mining company in Japan (from South Africa); Max Webb, Royal Holloway University of London, United Kingdom; Olga Yakushina, FSBVI "All-Russian Institute of Mineral Resources, Moscow, Russia; Zhang Shuang, Carnegie Institution for Science, Washington, DC, USA.



2. Report on the IUGS Bureau meeting in St. Petersburg

The IUGS Bureau met on 20-21 October 2019 in Saint Petersburg, Russia at the invitation of Dr. Oleg Petrov, Director of the A. P. Karpinsky Russian Geological Research Institute (VSEGEI). Much of the meeting was devoted to 1) planning of IUGS activities at the 36th International Geological Congress, 2) IUGS awards including selection of recipients and their presentation at the 36th IGC, 3) logistical matters related to the Congress (registration, accommodations, IUGS expenditures, call to delegations, and preparation of documents), and 4) agenda items for the IUGS-IGC Council meeting. Plans for the 74th IUGS Executive meeting in Busan, Korea, 15-18 January were discussed. A proposal from the Finance Committee for a Special Funding Program for IUGS Commissions, Initiatives, Task Groups, and Joint Programs was discussed at length. The Bureau decided to implement the program following approval by a vote by e-mail of the full Executive Committee. On the afternoon of 21 October, the Bureau members met with a delegation of Russian geoscientists who presented the Russian bid to host the 38th IGC in Saint Petersburg in 2028. The Russian delegation included leaders of the Russian National Committee of Geologists, directors general of national geologic institutes, members of the Russian Academy of Sciences, the President of the Russian Geological Society, the director of Earth Sciences at St. Petersburg State University, and a representative of the Governor of St. Petersburg. The Russian bid is very impressive, and the hosts arranged a visit to the new modern convention center for St. Petersburg on 22 October. The Bureau members were treated to a performance of the Mariinsky Theatre Orchestra on the evening of 20 October and a guided tour of St. Petersburg on the afternoon of 22 October. Director Oleg Petrov was an excellent host; the facilities, support, activities, transportation, and reception organized by the staff of the geological institute were exceptional.



Fig. 4 - Members of the IUGS Bureau and IUGS Secretariat, some members of the Russian delegation, and the Director and staff of VSEGEI. Front row (l-r): IUGS Vice President William Cavazza, VSEGEI Director Oleg Petrov, IUGS President Qiuming Cheng, and a representative of the Governor of St. Petersburg. Other IUGS members in photo: Vice President Kristine Asch and Treasurer Hiroshi Kitazato in 3rd row, Director of Secretariat Ma Youngzheng 4th row, Past President Roland Oberhänsli, Secretary General Stan Finney, and Secretariat staff members Wei Li and Yu Situ in 5th row.



3. Call for IUGS/IGEO Geoscience Education Field Officers to train school teachers

The full call for geoscience education Field Officers appears on the IUGS website at:
http://iugs.org/uploads/Calls/IUGS-COGE_18Nov2019.pdf

Four new Field Officers are being sought for non-European countries apart from India and Morocco. These positions are unpaid. Successful applicants will receive an intensive two-day training programme in Vienna in May 2020. Funding may or not be available to support this training, depending on the outcome of a bid to IUGS. Following training, Field Officers will be expected to provide interactive teaching workshops to school teachers in their own countries and regions. Applications close on 20th January, 2020.





Fig. 5, 6, 7, 8 and 9 - Photographs of the training of the two IUGS/IGEO Field Officers (from India and Morocco) appointed last year, alongside the four European Geosciences Union (EGU) Field Officers trained at the same time.



4. News from the IUGS Initiative on Forensic Geology (IFG)

Forensic Geology in Mexico

The 4th IberoAmerican Congress on Forensic Geology, was held in Puerto Vallarta, Mexico on 28th and 29th October 2019, in association with Reunion Anual de la Unión Geofísica Mexicana (RAUGM). The congress focused on: ground searches for burials using geophysics, the investigation of tailings dam failures in Brazil, searches for missing persons and graves in Colombia, processes of human decomposition and preservation, and geological methods to support criminal investigations associated with mining, minerals and metals such as; theft, adulteration, substitution, mineral smuggling and conflict minerals. A keynote presentation was given by IUGS-IFG Chair. Training was provided to the conference delegates, comprising; academics, researchers and students, on ground search techniques, crime scene examination and the recovery and analysis of geological trace evidence from a car.



Fig. 10 and 11 - IUGS-IFG training in Forensic Geology (search and crime scene examination), Puerto Vallarta, Mexico (Photos: Laurance Donnelly)



Fig. 12 and 13 - IUGS-IFG training in soil sample recovery from the interior and exterior of a car, Puerto Vallarta, Mexico (Photos: Laurance Donnelly)



Fig. 14 and 15 - IUGS-IFG training in the geological analysis of soil collected from inside a car, Puerto Vallarta, Mexico (Photos: Matteo Barone and Laurance Donnelly)

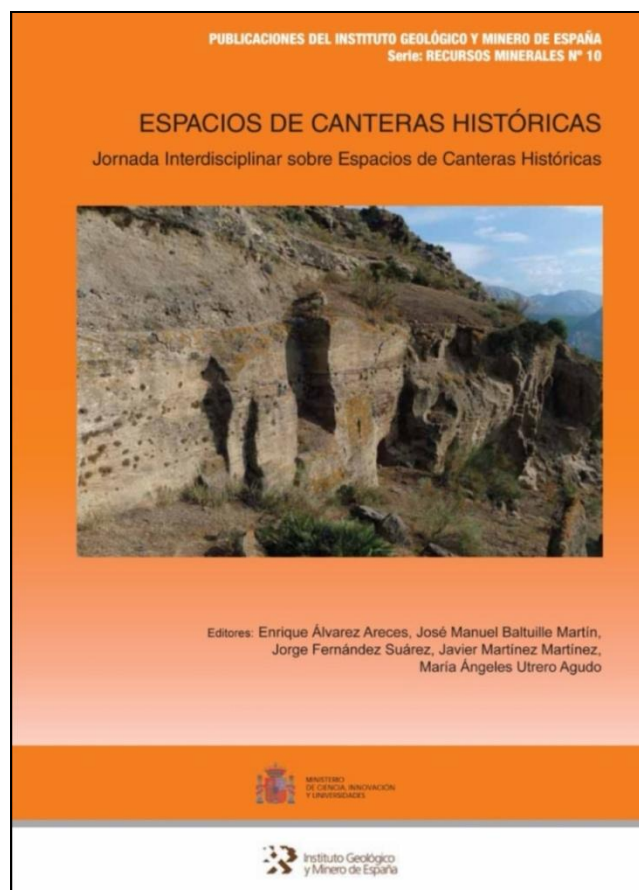
Forensic Geology Award

Prof Carlos Carlos Martin Molina Gallego (The Universidad Antonio Nariño, Instituto Nacional de Medicina Legal y Ciencias Forense, Bogota, Colombia) has received the IFG Award in recognition of outstanding international contributions to forensic geology, and for his pioneering efforts in developing and promoting forensic geology throughout Latin America. This was presented by the IUGS-IFG Chair, in Mexico.



5. Heritage Stones Subcommittee (HSS): new achievement

The Heritage Stones Subcommittee has a new publication: *"Natural Stone in construction and restoration of Heritage. The concept of Global Heritage Stone Resource"*.



This publication is part of a volume published by the Spanish Geological Survey, coming from the Workshop: "Interdisciplinary workshop on historic quarried", where Lola Pereira, Secretary General of the HSS was invited as Keynote speaker. This contribution was presented to an international, interdisciplinary audience to advance the achievements of the IUGS Subcommittee and also the achievements of the IGCP-637.

The publication can be found at:

<http://igmepublicaciones.blogspot.com/?m=1>

Most contributions are in Spanish.



6. Korea-Japan-Taiwan (China) Joint Geoscience Symposium in Busan, Korea

The 2019 Korea-Japan-Taiwan (China) Joint Geoscience Symposium was held in Busan, Korea during 14-18 October 2019 to exchange the information and experiences on recent geological issues between the three countries. Main topics are engineering geology, environmental geology, geophysical prospecting, seismology, paleoseismology, neotectonics, structural geology, petrology, geochemistry, and hydrogeology.

The field excursion was held during 16th October. Active fault sites in Gyeongju area were observed.

A meeting for Taiwan (China) - Korea - TGG Cooperation was held on 16th October in Gyeongju. Issues on geohazards guideline and international meetings were discussed at the meeting.



Fig. 16 - Trench site in Gyeongju.



EDITORS' NOTES:

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

IUGS wishes to better co-ordinate publication 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 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 website: 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:

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(E-Bulletin Editor-in-Chief)
(Webmaster)
(Social Media Manager)



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: silvia.peppoloni@ingv.it.
- 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 mail to: iugs.beijing@gmail.com or secretariat@iugs.org.
- Follow the IUGS on Social Media! We are on [Facebook](#), [Twitter](#), and [LinkedIn](#).
- Check the IUGS website: <http://www.iugs.org/>

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