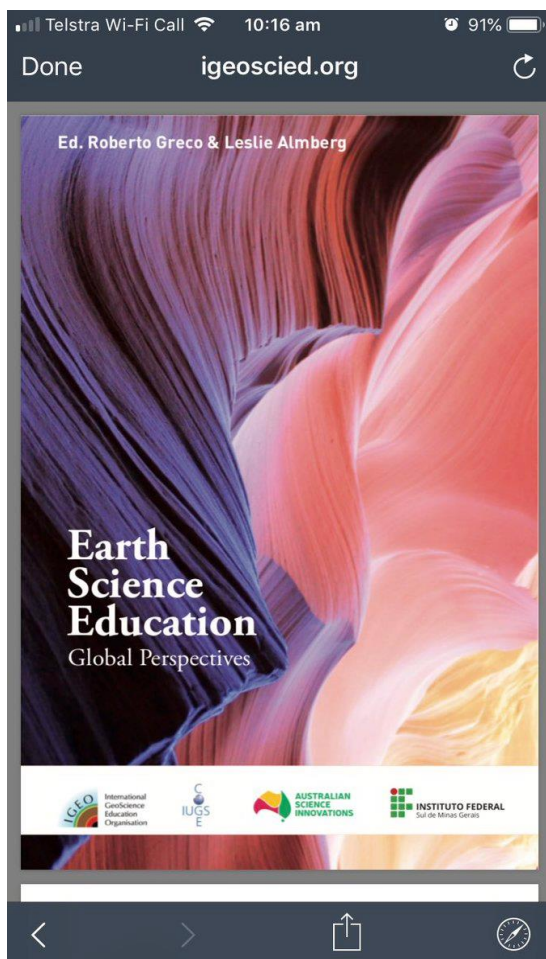




International GeoScience Education Organisation

January 2019 Newsletter

<http://www.igeosced.org/>



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2018 – 2022 IGEO Executive Committee

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Conference Convener	Ichiro Matsumoto	Japan	chromim@edu.shimane-u.ac.jp
Special Advisor	Chris King	UK	chrisjhking36@gmail.com
Special Advisor	Nir Orion	Israel	nir.orion@weizmann.ac.il

Council Members: <http://www.igeoscienced.org/about-the-igeo/officers/>

Website: <http://www.igeoscienced.org/>

E-book: Earth Science Education: Global Perspective

Edited by Roberto Greco and Leslie Almburg

Free download available at :

<https://www.dropbox.com/s/iqkn5ggiqu6be3f/Earth%20Science%20Education%20Global%20Perspectives%202018%20E%20Book.pdf?dl=0> or

<http://www.igeoscienced.org/wp-content/uploads/2018/12/Earth-Science-Education-Global-Perspectives-2018-E-Book.pdf>

Endorsed by IGEO and IUGS-COGE. Begun after the International Earth Science Olympiad 2015 with the involvement of mentors at that program and additional colleagues from many countries.

The editorial costs were covered by Ifsuldeminas, host of IESO 2015.

This book describes a huge and disturbing gap between the importance of Earth science to the fate of humankind and its low status in schools worldwide. The 27 chapters include an impressive introduction concerning the involvement of Earth Science in almost every critical component of our lives, underscoring how crucial this understanding is for the future of humankind. Some chapters highlight the central role that Earth Science plays in developing higher-order thinking skills. Learners can develop the ability to overcome cognitive barriers to spatial and temporal thinking, retrospection, and understanding phenomena across scales of many orders of magnitude, integrate diverse subjects, and develop the cognitive capacity for systems thinking. Earth Science can endow citizens with knowledge and abilities to draw conclusions for effective and proper use and conservation of energy, water, and other natural resources. Citizens who understand the environment and its processes are better able to judge and behave in a more scientifically aligned way.



Call for IUGS-COGE/IGEO

Geoscience Education Field Officers

The International Union of Geological Sciences Commission on Geoscience Education (IUGS-COGE) and the International Geoscience Education Organisation (IGEO) jointly are seeking to appoint IUGS/IGEO Geoscience Education Field Officers in countries beyond Europe with the major role of providing professional development to school teachers, who have elements of geoscience in their teaching curriculum, through interactive workshops. Priority will be given to those countries where the work of such Field Officers is likely to have most effect.

The two-day training programme for successful applicants will take place in Vienna in April 2019.

In first year of this pilot initiative (2019/20), four posts will be available.

These positions are unpaid, but funding may be available as follows:

- a bid has been submitted to the IUGS to fund the costs of travel and accommodation in Vienna for the training of the individuals alongside the training of European Geosciences Union (EGU) Geoscience Education Field Officers;
- a second bid has been submitted to IUGS for the funding of workshop apparatus and materials;
- a third bid has been submitted to IUGS to support the travel and registration fees for Field Officers to attend teacher conferences (science, geography or primary/elementary teachers as appropriate) in their own countries.

If none of these bids are successful, Field Officers will receive no funding for training or for providing workshops, but nevertheless, training is a compulsory part of the appointment. If all three bids to the IUGS are successful, Field Officers will receive the same level of funding as their EGU counterparts.

Individuals appointed will ideally:

- be willing to represent IUGS and IGEO amongst geoscience teachers and educators in their own country;
- be willing to liaise with a small group of IUGS/IGEO-recognised supporters in their own country;
- be fully available for work, and so are unlikely to have a full-time position;

- hold a university degree containing at least 40% broad geoscience;
- have wide experience of teaching geology, science or geography;
- be willing to respond to new teaching ideas and approaches;
- be willing to seek out and travel to conferences of school teachers of geography, science or primary-age pupils in their country and region in order to present (in their own language) interactive workshops to the conference participants;
- be willing to present training to people working in informal geoscience education, such as in geoparks, aspiring geoparks, the museum sector and other similar institutions, when funded by the institutions;
- be willing to undertake a two-day training programme in presenting interactive workshops; training will be by experienced trainers with expertise in presenting curriculum-focussed interactive professional development workshops in many countries - the training is linked with the EGU General Assembly in Vienna, Austria in April 2019;
- be willing, with guidance, to formulate interactive workshops appropriate for the curriculum in their own countries (with or without translation from English);
- be willing (if funded) to attend an annual meeting of Geoscience Education Field Officers linked with the EGU General Assembly, to provide a brief report on their activities;
- be willing to purchase locally all the apparatus and materials needed to support and maintain the workshops (expenses may be reclaimable);
- be willing to collect evaluation data from each workshop presented and to provide simple analyses of the data;
- be willing to provide information on the background and progress of geoscience education in their own countries, when prompted.

Application is by sending a motivation letter (occupying no more than a single A4 page) and a curriculum vitae (CV) to the Chair of the IUGS Commission on Geoscience Education, Chris King, at: chris@earthlearningidea.com The motivation letter should refer to the motivation of the individual applying, the state of geoscience education in their country, and how the provision of interactive workshops is likely to have an impact.



**CALL
FOR
ENTRIES**

jalkatha 2019

**INTERNATIONAL
SHORT FILM
FESTIVAL
ON WATER**

**CELEBRATING
WORLD WATER DAY
22ND MARCH 2019**

FOR DETAILS & REGISTRATION VISIT
[HTTPS://CERG.ORG.IN/JALKATHA-2019](https://CERG.ORG.IN/JALKATHA-2019)

BROUGHT TO YOU BY THE **CENTRE FOR EDUCATION & RESEARCH IN GEOSCIENCES**



**CENTRE FOR EDUCATION &
RESEARCH IN GEOSCIENCES**

jal katha 2019

stories of water

**INTERNATIONAL
SHORT FILM FESTIVAL
ON WATER**

CELEBRATING WORLD WATER DAY – 22ND MARCH 2019

The Centre for Education & Research in Geosciences announces Jal Katha 2019 – Stories of Water, an international short film festival aimed at promoting water literacy.

We invite you to be a part of the first Jal Katha 2019 – Stories of Water by contributing short films that can be a documentary, fiction, animation or feature film on water and related issues.

The objective of the film festival is to raise awareness of the water problem around the world by means of short films that address this issue and to promote awareness on the importance of proper water usage and reducing wastage. We aim to bring together stories of water from different parts of the world and involve people of all walks of life to engage in a process of thought, deliberate, debate & introspect on the various issues around water.

Any film with the overall theme of **Water** is eligible to be a part of the festival. Some of the sub-themes or ideas could be Water wastage, scarcity & droughts, Water conservation, Water harvesting & augmentation, Agriculture, Global warming & its impact on water, Water & Sanitation, Water Pollution, Human habitats around water bodies, Environment & Water, Rains, etc....in short on any topic related to Water.

DETAILED GUIDELINES

Please read all instructions carefully. Incomplete submission forms and submissions without the required materials attached will be rejected.

The objective of the film festival is to raise awareness of the water problem around the world by means of short films that address this issue and to promote awareness on the importance of proper water usage and reducing wastage.

1. The public screening programs are designed to highlight the creator as much as the work itself.
2. The Short film festival is a juried competition, open to any person across the world. The film can be made by an individual or by a team.
3. The total running time of the films should be 20 minutes or less. Depending on the number of entries, the films may be categorized into two sections – Micro (less than 5 mins length) and Short (more than 5 mins and less than 21 mins)
4. All qualified entries must be original, independently produced and could have been submitted or exhibited at non-competitive film festivals but not yet been exhibited on Internet or any other medium, or to any other Contest.
5. Films must be shot in HD (1280 x 720) or higher resolution and can be in any language. Non-English films should have English sub-titles.
6. The entry deadline for the submission of entries to the festival is 5:00 PM IST on **Sunday, March 10th, 2019**. Applicants will be notified of their selection status after the Screening Committee viewing.
7. There is no entry fee for film submission/s.
8. Initial registration must be done online @ [https://cerg.org.in/jal-katha registration](https://cerg.org.in/jal-katha-registration). Initial registrations will be open from **15th January 2019** till **28th February 2019**.
9. Selected films will be exhibited during the 'World Water day-2019' celebrations being held on 22nd March 2019.
10. The core objective of the festival is raising awareness of the water problem. In order to achieve this objective, the films will be made available for screening **after the festival** at various venues like housing societies, social & educational institutions, clubs, etc. in India and abroad.

SUBMISSIONS

1. Films will have to be submitted by digital transfer. Two (2) digital copies of the film will have to be submitted. Detailed Guidelines for transfer of the films will be provided on registration.
2. The Films/entries submitted by participants must constitute original work and not be an infringement any other copyrighted work/s and further do not infringe the Intellectual Property Rights including the moral rights, privacy and publicity rights of any third party.
3. None of the Intellectual Property Rights associated with the Films should have been assigned/licensed to any other person, firm or corporation.

THE COMPETITION AND JUDGING

1. Entries will be pre-screened by the Film contest Committee for their relevance to the theme of Water. Short listed films will be screened and judged by a jury. The jury panel will consist of Geoscientists, Artists, Film critics, Writers, Filmmakers, and Educators.
2. Filmmakers will be notified of official Selection status via email.

AWARDS

1. The top two films will be selected for awards of the best film and the second-best film. More prizes may be awarded if the number of entries is large. All participants will get a certification of participation.
2. The award-winning and other selected entries will be screened during the World Water Day celebration on 22nd March 2019
3. All exhibited films will be introduced by a commentator, and filmmakers in attendance are given the opportunity to speak to the festival audiences at the close of their film's exhibition.
4. Entrants assume and accept all legal and financial responsibility for any infringement on the privacy rights or copyright of others, caused by creating or presenting their work in public.
5. All copyrights and ownership of the works are retained by the photographer. However, by entering the contest, you grant CERG (and those authorized by CERG) a royalty-free, world-wide, two year non-exclusive license to publicly display, distribute, reproduce and create derivative works of the entries, in whole or in part, in any media now existing or later developed, for any CERG purpose, including, but not limited to, advertising and promotion of the magazine and its website, exhibition, and commercial products, including but not limited to CERG publications. All reproduced material will be acknowledged with the name of the maker. No royalties or compensation will be paid for these purposes.
6. CERG retains the right to exclude films from the competition entries that violate the conditions of the competition and ones that violate any human or privacy rights.

ADMISSION

1. Admission to the festival is free and on first come first serve basis.

CONTACT US

For more information please email us at jalkatha2019@cerg.org.in or call Aishwarya @ **87798 63372**.

FOR REGISTRATION [CLICK HERE](#)



**GEO-CULTURAL TRIP TO ROME AND NAPLES 2019 and 1st International Field Course
"TEACHING OF EARTH SCIENCES THROUGH CONTEXTUALIZED AND INTERDISCIPLINARY PERSPECTIVES"**

19 May - 2 June 2019

A different perspective, an exciting journey, an enriching experience...

What is it about?

A fascinating two-week expedition of through **Nature**, its processes and materials and **Humanity**, its facts and creations, providing an experience of study and discovery of the multiple and complex relationships between them.

When?

The trip will take place between Sunday, May 19 and Monday, June 3 (to be confirmed).

Why should I be interested?

The trip offers a combination of SCIENCE + ART + HISTORY intimately related in a trip specially planned for professionals and others.

1. **Scientists:** Science is a product of the society in which it develops and is strongly conditioned by political and economic factors, and by the environment, the needs of society and the ability to imagine and concretize new things. During the trip you will explore the geological-geographical environment, the Hellenic cultural heritage, local knowledge, etc. These combined and evolved, both around Vesuvius (a volcano that still dominates and affects life in the region), and in Rome, a city that became the capital of an empire, but also had to address important urban problems, including health.
2. **Architects, artists and art historians:** Have opportunities for a specialized look at the materials, their origins, characteristics and properties. Under the name of "marbles and granites" are hidden rocks of diverse compositions and provenances (both geographical and, above all, geological) associated with processes and histories that, over millions of years, have been shaping the material that was extracted from the quarries. The expert perspective can see through the textures, colors and structures to the features that give aesthetic value to them.
3. **The general public:** The trip provides a journey through landscapes, cities and museums where the relations between different aspects of human activity crystallized in the Humanities and Sciences will be highlighted, not as antagonistic entities but as complementary aspects of the development of human knowledge. We visit two Italian regions to travel in space and time across areas that have left a strong imprint in both fields and where the natural environment has provided an exceptional background.



4. **Educators:** the trip offers a combination of SCIENCE + ART + HISTORY intimately related in a trip specially planned for professionals. For the participating teachers, the trip has been organized as a field school and constitutes the "**1st International Field Course on Teaching Earth Sciences in a contextualized and interdisciplinary perspective**", as described below.

Subjects that will be specially considered:

Topics addressed during visits to natural spaces and museums include:

1. *Humanities:* History, Archeology, Architecture, Sculpture, Painting, Decorative Arts, Literature and Music.
2. *Sciences:* Earth Sciences, Geography, Chemistry, Physics, Engineering and Mathematics.

Proposal

This is an initiative of the J. J. Nágera Program, dedicated to the dissemination of Earth Sciences and the training of teachers. This program is part of the activities of the IGEBA, Institute of Basic, Applied and Environmental Geosciences of Buenos Aires, which belongs to the University of Buenos Aires and the CONICET and is located in the Department of Geology of the Faculty of Exact Sciences and Natural



Content

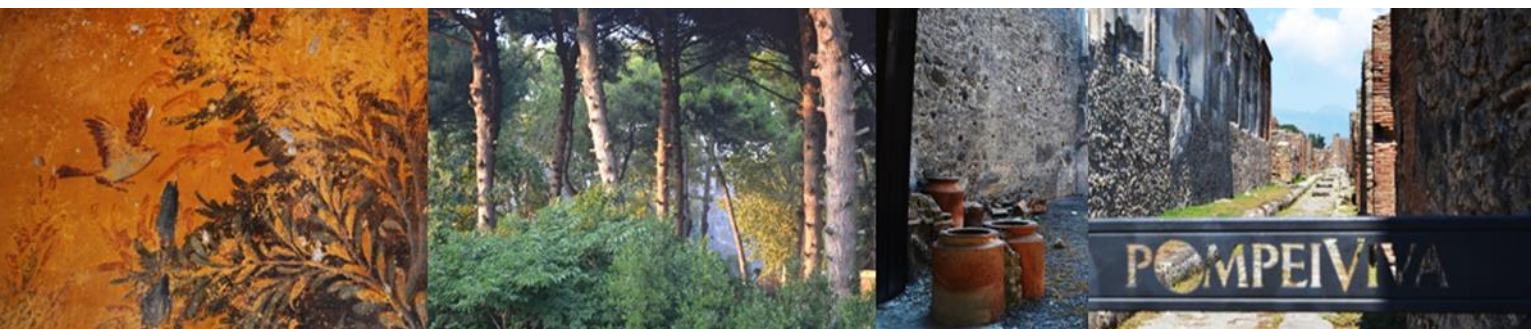
The scientific-cultural aspects will be in charge of Dr. José Sellés-Martínez (geologist and educational researcher) and specialized local guides.

Logistics

The travel agency of the Young Men Christian Association of Argentina is in charge of the organization of the trip and the reservation and sale of the tickets.

Language

Communication will be in Spanish and English.



Sponsorship

The Argentine Scientific Society, the Argentine Academy of Arts and Communication Sciences and the Higher Professional Council of Geology officially sponsor the academic content but take no responsibility for the trip itself.



Travel agenda

- Day 1. Sunday, May 19th. Reception at the airport in Rome and transfer to Naples.
- Day 2. Underground Naples and National Archaeological Museum
- Day 3. Flagrant Fields
- Day 4. Torre Annunziata (Oplonti) and Herculaneum
- Day 5. Park Vergiliano to Piedigrotta and Pompeii
- Day 6. Mount Vesuvius
- Day 7. Capri
- Day 8. Naples - Rome. Arrival in Rome / Borghese Gallery
- Day 9. Area of the Coliseum-Forums-Palatino
- Day 10. Vatican City
- Day 11. Area of Termini-Archaeological Museum-Trastevere
- Day 12. Area of Pincio-Villa Giulia (Etruscan Museum) -Villa Medici.
- Day 13. Area of Tivoli- Canteras de Travertino-Villa Adriana-Villa d'Este
- Day 14. Papal Basilicas and Ancient Ostia
- Day 15. Sunday, June 2. Departure from Rome to your destinations

Certification:

Certificates of participation will be awarded signed by the organizing institution and the professor, crediting a total of 68 hours (Theoretical: 39 hours, Practical: 20 hours, Workshops: 9 hours).

Cost

The trip begins and ends at the airport in Rome and does not include transfers to that point from the places of origin of the participants. The price based on the details below is:

Price per person in DOUBLE room, hotel 3 stars: Eur 3,579.

Price per person in INDIVIDUAL room, hotel 3 stars: Eur 4,180.



Included in the cost

- Help-Line Podium active 24/7, also by Skype and by WhatsApp with free calls
- Accompanying guide available for the entire trip
- 14 buffet breakfasts
- 14 dinners menu 3 courses (starter-main course-dessert) - Does not include drinks
- Local bus services
- Visits with local guides
- Entrances to places: Underground Naples (with guide), National Archaeological Museum of Naples, Flagrant Fields, Oplontis, Herculaneum, Pompeii, Vesuvio Park, Blue Grotto, Borghese Gallery, Colosseum and Roman Forum,
- Entrance fees to museums: Capitoline Museums, Vatican Museums / Sistine Chapel / St. Peter's Basilica, Etruscan National Museum of Villa Giulia, Villa Medici, Villa Adriana, Villa d'Este, Archaeological Area of Ancient Ostia.
- Napoli / Capri fast boat, round trip

Not included in the cost

- | | |
|--|--|
| – Flights to and from Rome | -- Tips and extras in general |
| – Lunches | -- Drinks during dinners |
| – Additional excursions to those mentioned | -- Additional entries to those mentioned |
| – Additional transfers to those mentioned | -- Hotel taxes |

Tips Tips should be offered. Suggested tips are: Guide: € 2-3 per person in each service and local Assistant: € 2 per pax and service.

Insurance

It is essential to take out insurance to enter the European Community. The travel agency offers Universal Assistance Insurance with a daily fee of USD 4 that covers all the necessary requirements.

Additional information

- About logistics and reservations:
Mrs. Alejandra Horsmann, alejandra.horsmann@ymca-turismo.tur.ar
- About academic issues:
Sr. José Sellés-Martínez, aulagea@gl.fcen.uba.ar
- Additional information and updatings:
<http://igeba.gl.fcen.uba.ar/content/cursos>



FIRST ANNOUNCEMENT

**10th International Conference of the African Association of Women
in Geosciences**

**EARTH SCIENCES AND SUSTAINABLE DEVELOPMENT IN
AFRICA**

Luanda / Angola, 27 - 31 July 2020

Organised by

**AFRICAN ASSOCIATION OF WOMEN IN GEOSCIENCES
(AAWG)**

**ANGOLAN ASSOCIATION OF WOMEN GEOLOGISTS
(AAMG)**

In partnership with

THE GOVERNMENT OF ANGOLA

Geoscientists from around the world are cordially invited to attend the 10th International Conference of the African Association of Women in Geosciences on Earth Sciences and Sustainable Development in Africa, Luanda, Angola from July 27 – 31, 2020.

Objectives

Geosciences is a constantly changing science. Geoscientists require up-to-date knowledge of our Earth, its resources, and geo-hazard to find better ways of utilizing resources properly for sustainable development. The conference aims to improve the scientific and social inclusion of women, attracting them for the careers in geosciences. Implementation of global programs such as " Agenda 2030 for Sustainable Development," the "Paris Agreement on Climate Change," "Agenda 2063 - Africa Qu want," among others will be better when women add their view about technical, economic and social empowerment.

AAWG aims to provide a forum for discussion, dissemination of information and cooperation among women geoscientists at local, regional and international levels. Private and public institutions should strengthen collaboration with all stakeholders to encourage them to participate in technical and scientific events. Greater involvement in research and manufacturing industries are key areas to help Africa overcome underdevelopment.

Themes of the Conference

Geosciences and Society

Theme 1 - Geoheritage, Geoconservation, Geotourism, Geoparks, Museology and sustainable socio-economic development

Theme 2 - Earth Sciences Education and Public Communication, Geoethics, Geosciences History

Theme 3 - Water resources

Theme 4 - Evolution of the Biosphere, Soil Science & Biogeoscience

Theme 5 - Geohazards

Theme 6 - Remote Sensing Technologies and Data and Information Systems

Theme 7 - Environmental Geosciences Climate Change and adaptability

Theme 8 - Medical Geology

Theme 9 - Women, Geosciences and inclusive development.

Theme 10 - Geosciences diplomacy

Geosciences and Economy

Theme 11 - Mineral Resources and Mining Engineering

Theme 12 - Petroleum Systems, Geoenergetic resources and applied geophysics

Theme 13 - Engineering Geology and Geomechanics

Theme 14 - Geostatistics and Mathematical Geosciences

Theme 15 - Gemology

Fundamental of Geosciences

Theme 16 - Magmatic Processes and Volcanology

Theme 17 - Rock Deformation, Structural Geology and Metamorphic processes

Theme 18 - Sedimentary Processes, Stratigraphy, Biostratigraphy

Theme 19 - Marine Geosciences and Oceanography

Theme 20 - Palaeontology and Palaeo-anthropology

Theme 21 - Geomorphology, Quaternary Geology & Geoarcheology

Theme 22 - Planetary Sciences

Call for Papers

Papers are invited worldwide geoscientists to be presented at the Conference. All authors are requested to submit their abstracts which will be reproduced in an abstract volume to be distributed to the participants. All abstracts should be prepared according to the guidelines given below.

Instructions for Submission of Abstracts

The abstract should not exceed 1 page (500 words) in English, French or Portuguese. The topic covered should be relevant to the sub-themes of the meeting. The name, address (telephone, fax and e-mail) of the author must be clearly specified. The names of the co-authors should be written in capital letters to allow for the distinction from the first author.

Deadline for submission of abstracts is **30th December 2019**.

Guidelines for Abstracts

The abstracts should be laid out in accordance with the main formatting points listed below. A limited amount of re-formatting may be undertaken by the conference secretariat, but submissions that are grossly aberrant will be returned to authors for correction.

- ❖ It must be submitted electronically in MSWORD
- ❖ The preferred font is Times New Roman; Title 14 font size; Authors and Affiliations 12 font size; and Text 10 font size with single line spacing.
- ❖ The text must be typed leaving a 3 cm on the right and 2.5 cm on the top, bottom, and left margins.

The abstracts should be sent before 30th December 2019 as an attached file to

conferencia.angola@gmail.com or caawg10.angola@gmail.com.

The name of the electronic file must include the name of the first author, e.g. Salisu.doc. You will receive your acceptance and invitation letters within few weeks after the reception of your registration forms and abstracts.

Languages

The languages of the conference will be English, French, and Portuguese.

Publication of Papers

More information will be communicated in the second circular.

Provisional Programme

- | | |
|---------------------|---|
| ⇒ 27 - 29 July 2020 | Opening and Presentations of papers. |
| ⇒ 29 July 2020 | Gala Dinner |
| ⇒ 30 July 2020 | One day field trip dedicated to all participants. |
| ⇒ 31 July 2020 | Field trip to Catoca - diamond mine |

Conference Registration Fees

150 USD – Non-member Participants

100 USD - Speakers and members of other associations

50 USD - AAWG and its affiliates members and students.

Registration fees cover the abstract volume, coffee breaks and conference lunches.

Workshops/Courses/ Trainings are not included in the fees. The field trip is not included. More information will be given in the second circular.

Payments -- More information will be given in the second circular.

Deadlines

December 2018	First circular
June 2019	Second circular
December 2019	Deadline for registration and abstract submission
June 2020	Final circular - Conference program

Congress Chairs

ERRAMI Ezzoura (AAWG president, Morocco)

ESPERANÇA A. Garcia dos Santos (AAMG President, Angola)

Contact

Secretariat

Email: conferencia.angola@gmail.com or caawg10.angola@gmail.com

Phone:

+ 244 926 353 947 - French and Portuguese

+ 244938364865 - Portuguese

+244 938 045 193/ +2 44 940511553/ +244 925109968 - English

Organizing Committee

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SIBY Sophie (Senegal)
BEN ISMAIL-LATTRACHE Kmar (Tunisia)

Registration Form
International Conference of the African Association of Women in
Geosciences (CAAWG10) Luanda / Angola, 27-31 July 2020

Family Name (Ms/M).....

First Name.....

Institution / Company Address

.....
.....
.....

City.....**Country**.....

Phone.....**Fax**.....

E-mail.....

I will present a paper Oral Poster

Title of the paper

.....
.....
.....

Theme.....

.....
.....

I would like to participate in the field trip Yes No

Please, type or complete this form in print letters and return it accompanied by your abstract(s) before the **30th December 2019** to the following email addresses:

conferencia.angola@gmail.com, caawg10.angola@gmail.com

AFRICAN ASSOCIATION OF WOMEN IN GEOSCIENCES (AAWG)

At many geoscientific meetings and conferences, the low participation of women geoscientists was noticed and raised as concerns. In order to help to address these concerns, a decision was taken to form this association in order to encourage women geoscientists to be active in Earth Sciences related conferences and to inform about or become involved in gender issues related to the Earth Sciences. In 1995, the African Association of Women in Geosciences was born in Nairobi, Kenya.

The objectives and purposes for which the Association was constituted are to: Promote the advancement of scientific and technological knowledge in the field of geosciences; Disseminate information on scientific and technical research and discoveries and promote public understanding of the role of geosciences in Africa's development; Establish and maintain relations between African scientists and the international scientific community; Provide a forum for discussion and cooperation in geosciences and other related professions in Africa; Assist African governments in the quest for capacity building in geosciences and its applications; Cooperate with relevant African governments in the formulation of policies and program designed to encourage the development and application of geosciences for Africa's development; Publish and distribute a bulletin and/or other publications in the field of geosciences development in Africa; Organize conferences, seminars, symposia, training courses and workshops in various areas of geosciences; Highlight and seek solutions to problems faced specifically by women and grassroots communities in Africa in the area of geosciences; Encourage and mobilize support for education, training and research in order to assist African women in their acquisition of specialized skills for leadership in geosciences; Identify, promote and advise on the importance and preservation of geological sites in Africa.

To meet these objectives, the association has organized numerous events in and outside Africa, especially the biannual international conferences. The association is at its 10th conference which is being organized in Angola.

www.aawg.org

<https://www.facebook.com/African-Association-of-Women-in-Geosciences-143770972328654/>

<https://www.linkedin.com/groups/6520809>



Resources for Future Generations 2018 Conference
June 16-21, 2018 Vancouver, Canada

The Resources for Future Generations 2018 Conference was held in Vancouver Canada, in June. “Education and Knowledge” was one of the 6 themes incorporated into the Conference. This theme was planned and delivered by members of the Education, Outreach and Early Careers Committee, comprising 18 representatives from 6 different countries. As part of Conference planning, the Committee assembled a comprehensive Education, Outreach and Early Career Technical Program and developed additional elements, aimed toward Conference Delegates, Educators, Students and the Public. The Technical Program involved more than 100 delegates presenting in 14 Sessions and 5 Panel Discussions.

The “Communicating Earth Science: Interactive Professional Development for Everyone” short course examined effective approaches to science communication. Over 30 delegates from around the world participated in the interactive session that explored communicating to a range of audiences through a variety of messages and formats.

The “Earth Science Educator Professional Learning Workshop” short course focused on Sustainability and the Conference themes of Earth, Minerals, Water and Energy. Facilitators from Canada and the United Kingdom lead participants through hands-on learning activities that included the UN Sustainable Development Goals and how geoscience and geoscientists are helping to achieve them. Another session focused on renewable energy and the minerals used to manufacture solar cells and other “green” energy infrastructure. Andrea Chong (BGC Engineering) led a hands-on investigation of Water, exploring aquifer systems, porosity of materials, and movement and mitigation of contaminants. This preceded a demonstration of Hollow Lens technology as applied to remediation at the Giant Mine in Yellowknife. The day concluded with discussion about the challenges of teaching Earth Science and the new British Columbia Curriculum.



An Earth Cache® is a special geological location people can visit to learn about a unique feature of the Earth. The RFG 2018 Earth Cache was created as a means to engage the public in local geology and in the wider Conference. The Earth Cache Program incorporated a series of twelve Vancouver area Earth Caches and six Earth Caches located along the scenic Sea to Sky Highway, including one created specifically for the event. The Program is a legacy project of the Conference.

The Canadian Geoscience Education Network and EdGEO, representing the educational arm of the Canadian Federation of Earth Sciences, hosted a booth in the Exhibition.

The Early Career program included several elements focused toward Students and geoscience professionals in their first 15 years of practice. These included career mentoring, information workshops, speaking opportunities and panel discussions.

The Conference was a success attracting more than 1900 delegates, from 60 countries. The Knowledge and Education program will lead to future Geoscience Education collaboration.



For more information:

<http://www.rfg2018.org/>

THE EARTH INSTITUTE COLUMBIA UNIVERSITY

<http://www.earth.columbia.edu/>

Columbia's Earth Institute blends research in the physical and social sciences, education and practical solutions to help guide the world onto a path toward sustainability.

Science + Collaboration + Education + Impact = Sustainability

The Columbia Earth Institute comprises more than two dozen research centers and several hundred people who collaborate across many disciplines and schools at the university. The people who make up the Earth Institute are earth scientists, economists, business and policy experts, specialists in public health and law, researchers, teachers and students.

. At our largest research unit, the renowned [Lamont-Doherty Earth Observatory](#), some of the world's leading scientists study geology, oceans, freshwater systems, climate and atmosphere to better understand the Earth's systems. By bringing those physical scientists together with experts in economics, law, public health and policy, the institute creates collaborations that help us learn how to best address issues of global sustainability.

We use that knowledge to develop policy and engineer practical solutions to our many challenges: climate change and environmental degradation, rapid urbanization, infectious diseases, natural hazards, the need for clean and accessible energy, water and sanitation, and the sustainable use of resources. We are also educating the next generation of leaders in earth sciences and sustainable development.

Examples of Earth Institute Initiatives



[Water](#)



[Climate](#)



[Energy](#)



[Urbanization](#)



[Hazards and Risk Reduction](#)



[Global Health](#)



[Agriculture](#)



[Ecosystems](#)



[Peace and Justice](#)

The Earth Institute provides a variety of online resources that can be used to create interesting lessons. These include:

[The 24 Research Centers and Programs](#)

[The Earth Clinic: Solving Real-World Problems](#)

[Current](#) and [Archived](#) News Stories

[“State of the Planet” blogs](#)

[Videos](#)

[Education News Archive](#)

Earth Institute scientists conduct field research around the globe:
<https://blogs.ei.columbia.edu/earth-institute-projects-map/>

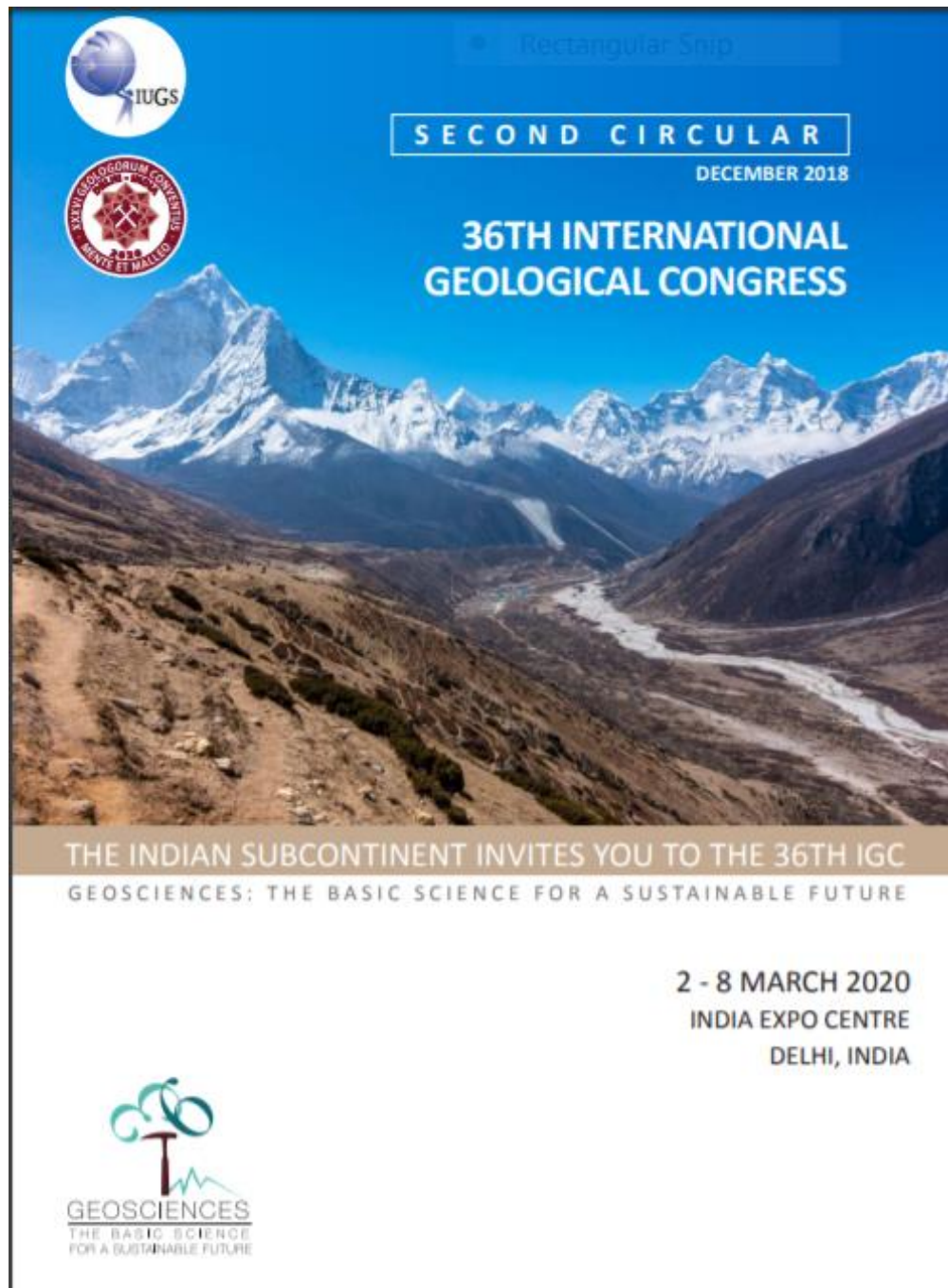
Two central ideas led to the creation of the Earth Institute in 1995. The first was to advance the basic understanding of Earth Science. The second was to apply that knowledge to decisions made by governments and businesses around the world. In the ensuing years, we have created a new kind of academic institution: a community of environmental and social scientists, lawyers, policy and management analysts, health experts and engineers who collaborate across schools and disciplines. Today, the Earth Institute has become a world leader in the basic and applied knowledge required to achieve sustainability.

The Earth Institute is made up of scholars spread out across dozens of research centers and programs at Columbia University. They are refining our understanding of how the planet works and how humans are affecting natural systems. The Lamont-Doherty Earth Observatory, which has been seeking fundamental knowledge about the natural world since 1949, is the scientific heart of the Earth Institute.

Another key aspect of our work is our willingness to engage directly with stakeholders in practical efforts to improve the environment. We introduce new approaches to address real-world problems, then evaluate the effectiveness of these strategies and try to learn from our successes and failures.

We have also created a number of education programs that require students to learn environmental science and social science along with applied policy and management analysis. In a world that is constantly increasing in complexity, we need managers in government and the private sector who both understand issues in science and sustainability and have the practical skills necessary to deal with such issues. We are educating students to apply scientific knowledge in practical, day-to-day decision making.

Save the Date: 36th International Geological Congress
Delhi, India 2 – 8 March 2020



<http://36igc.org/SecondCircular.pdf>