

The logo for IGEO (International GeoScience Education Organisation) features the letters 'IGEO' in a bold, black, sans-serif font. The letters are arranged in a curve, following the top edge of a stylized rainbow arc. The rainbow arc consists of several concentric bands of color: red, orange, yellow, green, and blue. The background of the logo is a light blue gradient.

International GeoScience Education Organisation

August 2019 Newsletter

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



36TH INTERNATIONAL GEOLOGICAL CONGRESS

2 - 8 MARCH 2020, DELHI, INDIA

The International Geological Congress is a mega event organised every four years. The next edition – the 36th – will be organised in Delhi, India, March 2- 8, 2020. The Congress has 45 themes covering practically all aspects of Planet Earth, 71 field trips, a GeoExpo, and much more.

Of particular interest to you is Theme 1: GEOSCIENCE FOR SOCIETY, co-ordinated by R. Shankar, Anish K. Warriar and Chris King. The theme has 11 symposia, each of which will offer several sessions. You are welcome to submit abstracts without fees by 15th SEPTEMBER 2019 through the Congress website (www.36igc.org). You could also enjoy a field trip, participate in a workshop/short course, and visiting India's culture and culinary specialties, art and architecture, history and heritage, and, of course, diverse geological features.

Thanks to the munificence of the Government of India, we are able to offer a Geohost Support Program that is unprecedented in the history of IGC! We will be providing 1000 free registration, 1000 airfares and 1000 local hospitality packages to geoscientists/ geoscience students. These will be provided either as full or partial support. So, hurry up and apply online for a Geohost grant!

(continued on p. 7)

2018 – 2022 IGEO Executive Committee

Chair	Roberto Greco	Brazil	greco@ige.unicamp.br
Past Chair	Shankar Rajasekhariah	India	rshankargeo@gmail.com
Vice-Chair	Clara Vasconcelos	Portugal	cvascon@fc.up.pt
Secretary	Anish Warriar	India	akwarrior@gmail.com
Treasurer	Jean-Luc Berenguer	France	berenguer@unice.fr
Web Manager	Takashi Sawaguchi	Japan	tsawa@toyo.jp
Newsletter Editor	Michael Passow	USA	michael@earth2class.org
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/>



Shortly after you receive this Newsletter, the 2019 International Earth Science Olympiads (IESO) will begin in Daegu, Republic of Korea. In 2007, the first IESO was hosted in Korea with 11 countries. This 13th version will have 43 countries and support from many geoscience organizations and agencies. (<http://ieso2019.com/index.php?gt=ieso/ieso01>).

Arrivals, registration, and a Welcoming Dinner on Monday, 26 Aug open the events. For students, there will be cultural and geological excursions on Tuesday and Wednesday. The written test orientation and exam take place Wednesday and Thursday, followed by the practical test orientation and exam on Thursday and Friday. The International Team Field Investigations and poster presentations occupy Friday, Saturday, and Sunday. Also on Sunday and Monday are the Daegu Science Festival, City Tour, Closing Ceremony and Farewell Luncheon. More details can be found at <http://ieso2019.com/index.php?gt=pro/pro01>.

To assist visitors with understanding Korean history, culture, and language, organizers provide a guide at <http://ieso2019.com/index.php?gt=gen/gen01>. A full report of IESO 2019 will be provided in the next Newsletter.

IESO Mentor of the Philippines Awarded as 2019 Outstanding Professional by Miguel C. Cano



The Philippine Professional Regulation Commission (PRC) awarded the 2019 Outstanding Professionals Award to **Dr. Marietta De Leon** for exemplary contributions to the country as a professional geologist. It is the first time that such an honor was accorded to a female geologist.

Dr. De Leon has been a mentor of the Philippine Team for the International Earth Science Olympiad (IESO) since the 5th competition in Modena, Italy. The Philippines won a gold for the first time in that event.

Dr. De Leon studied for her BSc, MSc, and PhD in Geology at the University of the Philippines. She also completed a second PhD in the field of Education, in the same University. "Tootsie", as she is fondly called by her friends and colleagues, specializes in Paleontology, Biostratigraphy, and Disaster Management in Schools.

Her career, both as a scientist and educator, spans over 40 years. She will again serve as one of the mentors of the Philippine Team in the 13th IESO in Daegu, South Korea on August 26-Sept 3, 2019.

Report on the IGEO Senior Officers Meeting Coimbra, Portugal, April 24-25, 2019

Seven of the IGEO Senior Officer—Roberto Greco (chair), Shankar Rajasekhariah (Past-Chair), Clara Vasconcelos (Vice-Chair), Anish Warriar ((Secretary), Jean-Luc Berenguer (Treasurer), Chris King and Nir Orion (Special Advisers)—met to discuss key issues pertaining to IGEO’s past, present, and future activities.

Highlights of these discussed are summarized here.

History of IGEO:

- First organized in 1993 (Southampton University)
- Basic aim: To promote Geoscience Education worldwide (at school level)
- First meeting: Hawaii 2000; Second Sydney (IGEO became official)
- GeoSciEd CONFERENCES: Southampton, England; Hawaii, USA; Sydney, Australia; Calgary, Canada; Bayreuth, Germany; Johannesburg, South Africa; Hyderabad, India; and Campinas, Brazil.

Mission and aims of IGEO:

- Focus on teacher and not on students.
- Five target groups:
 - People that teach geoscience and have a good background;
 - People that teach geoscience and have do not have a good background;
 - Teachers in higher education,
 - Teacher of informal geoscience (museums, geoparks);
 - Geoscience education researchers.
- Additional target: People with no Earth Science training but teaching ES subjects
- These five groups are those that appear in the EGU strategy document for Europe and beyond and the IUGS-COGE strategy documents.

IGEO seeks to

- Inspire, update, and support geoscience teachers and educators.
- Promote Geoscience teaching at school level worldwide.
- Value a systemic Geoscience approach.
- Support Geoscience “Field Officers” worldwide.
 - Promote an inquiry, hands-on and daily-life Geoscience approach.
- Develop an international Geoscience syllabus.

- Enhance public Geoscience awareness.
- Establish strong connections between IGEO and IESO.
- Promote Geoscience Teaching networks.

International Earth Science Olympiad (IESO):

- The origins of IESO were reviewed, emphasizing the desire to provide competition in and Earth Science Olympiad similar to other existing Olympiads (Maths/Chemistry/Astronomy etc.)
- IESO – Approximately forty countries participate, with greatest participation from SE Asian countries.
- Much still needs to be done to improve the quality of ES teaching in schools worldwide.
- Local committees of IESO must include school teachers
- An ideal team: Four students + two mentors (one mentor must be a school teacher
- Expand the International Team Field Experiences and Poster sessions
- Special training for these teachers during the IESO (teacher training workshops).
- Invite more teachers from the organizing country to the training sessions
- Promote IGEO in IESO
- Every IESO host nation to sign a “code of conduct” like EGU.
- IESO statutes were revised by the Senior Officers and will be implemented from 2020 onwards.

IGEO's constitution:

- IGEO was registered in India in July, 2015 with three Trustees (Nir, Shankar, Chris)
- IGEO has a bank account in India and a Permanent Account Number (PAN)
- We need to amend the Constitution to include IGEO Chapters
- We need to determine whether the IGEO constitution can be permanently registered/moved to European country (perhaps Spain?) as many Senior Officers are from Europe.
- We will examine how other NGOs pertaining to geosciences operate.
- It is desired that the IGEO council include a mix of older and younger people to help in organizing IGEO activities.

IGEO's Social media outreach:

- Website has improved in recent years
- Twitter handle and Facebook page are running successfully with regular posts.

- A review committee needs to be formed to assess the e-materials/e-books on IGEO's website.
- We need to display IGEO/IUGS Field Officer's details on IGEO website.
- We need also to provide details of IGEO regional chapters.
- The Councillors list needs to be revised regularly to check if contact and email details are valid.

IGEO funds:

- IUGS provides some funding for approved purposes each year
- We need to examine additional avenues for funding support (possibilities: oil drilling and exploration firms, mining companies etc.).

Expanded Development/Organization of IGEO:

IGEO Chapters are not explicit in IGEO Constitution, but were approved in the GEOSCIED 2018 Senior Office meeting.

Why Should We Support Chapters?

- IGEO intends to work at regional, as well as international, levels
- Chapter will foster increased geoscience teaching networks.
- Official language is decided by the Chair of the Chapter, but the national language probably has a higher outreach.
- We need to develop guidelines to promote/monitor the quality of the Chapters' work/trainings – a common guidance document should be developed

IGEO/EGU European Chapter

The inaugural IGEO/EGU European Chapter meeting took place in Coimbra, Portugal on Friday 26th April 2019 in association with the APPBG general congress. Present were:

- for the International Geoscience Education Organisation (IGEO) – the Chair (Brazil); the Chair-elect, (Portugal); the past-Chair, (India); the Treasurer, and co-opted Senior Officers from Israel) and the UK:
- for the Associação Portuguesa de Professores de Biologia e Geologia – APPBG (Portugal) – the President and a senior Council member;
- for the Asociación Española para la Enseñanza de las Ciencias de la Tierra – AEPECT (Spain) – the Vice-President and the Olympiad Coordinator;
- for the Associazione Nazionale Insegnanti di Scienze Naturali – ANISN (Italy) – representative Susanna Occhipinti

- for the Earth Science Teachers' Association – ESTA (UK) – the Chair and the Secretary
- for the Association des Professeurs de biologie et de géologie – APBG (France) – the Secretary General and the Higher education representative
- A German representative
- For Belgium KU Leuven (Belgium - by Skype)

Delegates discussed the potential role of the proposed chapter in fostering collaboration between geoscience education organisations across Europe. It was agreed that improving communication and collaboration between organisations in different countries was the most important issue. Some delegates were already working collaboratively across borders, but even within nations, many organisations worked in isolation. A broader approach was desirable as synergies multiplied the effectiveness of lobbying and other initiatives. Sharing expertise would allow limited resources to be deployed more efficiently.

Susanna Occhipinti (Italy) and Marc Jubault (France) volunteered to become the joint Chairs of the new Chapter and the other delegates unanimously and gratefully confirmed their appointments. The roles of the two new leaders were determined to be:

- To maintain a network of earth science educators.
- To extend the network to draw in members from countries not already represented.
- To co-ordinate and promote projects undertaken jointly between member organisations.
- To support earth science educators in countries where there was no national organisation carrying out this role.

It was agreed that the new Chapter would ask EGU for funding to support a second meeting in 2021, to review progress and hopefully to broaden representation across Europe.

36th IGO (cont'd. from p. 1)

The EGU has recently been given permission to run a GIFT workshop as part of the IGC with free registration for teachers. The EGU will be providing travel and accommodation bursaries to school teachers in the Delhi region, which will act as part bursaries for teachers from elsewhere. The theme of the workshop is likely to be 'Geoscience in Developing Countries' and it is likely to run for 2.5 days as part of the full Congress. Further details should be available soon.

Please visit our website www.36igc.org for all the details and more.

A Still-Timely Article Reprinted from the April 2019 Newsletter



* MinerLima2019

The 5th International Mineral Exhibition of Lima (MinerLima2019) will be hosted by the Geological, Mining, Metallurgical and Geographical Engineering faculty from National University of San Marcos (UNMSM, San Miguel District, Lima, Peru) during 9 – 13 September. It spotlights the mineralogical heritage of Peru through a rock and mineral exhibition, short courses, conferences, workshops for children and the public, geological excursions and more events.

The motto of MinerLima2019 is: "Knowing our wealth through minerals", and aims to highlight the importance of Geosciences (especially Mineralogy). MinerLima2019 is organized by the Peruvian Section of the IAPG (International Association for Promoting Geoethics), in association with UNMSM, LAIGEO and other national and international institutions.

Convenership: Ciro Bedia, Carlos Toledo, Emilio Lacho and Daniel Peña (IAPG-Peru).

Information and Registration at <https://web.facebook.com/feriainternacionalmineraleslima/>

E-mail: iapg.peru@gmail.com; iapg.minerlima@gmail.com

The LAIGEO has also opened a variety of social media accounts to connect with members and potential members. You can find out more through:

Web: <https://laigeo.cloudaccess.host/>

Contact: igeo.latin@gmail.com

Facebook page: <https://www.facebook.com/igeolatinoamerica/> (@igeolatinoamerica)

LinkedIn Group: <https://www.linkedin.com/groups/10396771/>

Twitter account: @LAIGEO1

Instagram account: southamericanchapter