



International GeoScience Education Organisation

JULY 2020

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

In this issue:

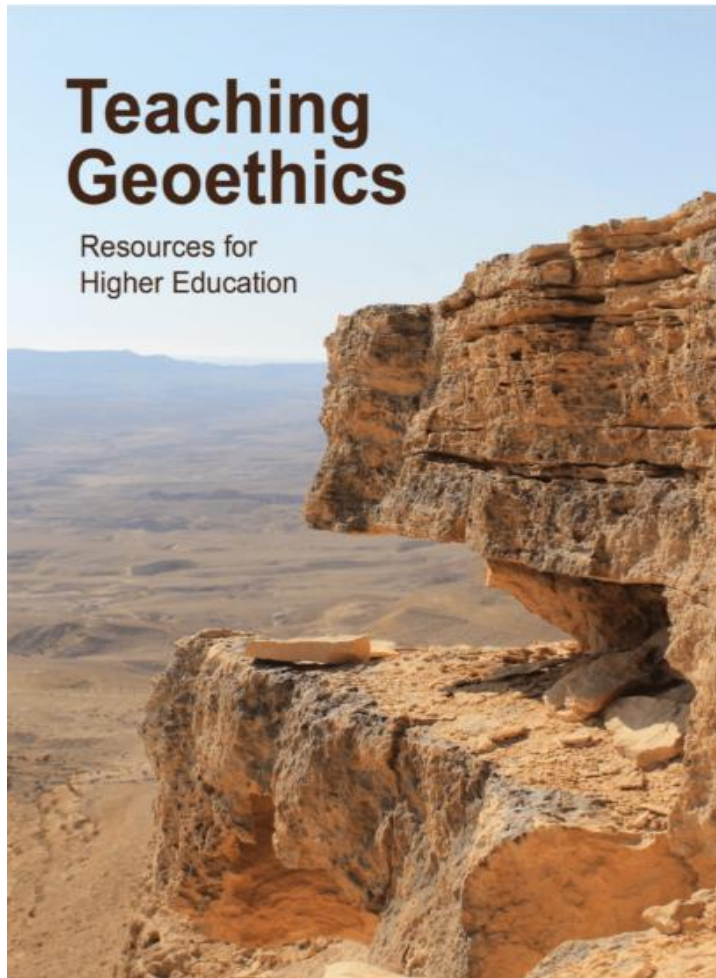
- “Teaching Geoethics” e-book
- IGEO Senior Officers list
- International Geodiversity Day proposal
- 2019 Report on the European Geosciences Union (EGU) field officers
- International Geoscience Exchanges Go Virtual
- LAIGEO: The Latin-American Chapter of IGEO, What we achieved at the moment

To contact newsletter editor please write to: senior-officers@igeosced.org

NEW e-book: Teaching Geoethics

Available for download in the geoscience textbook section of IGEO website:

<http://www.igeoscienced.org/teaching-resources/geoscience-text-books/>



Two senior officers, Clara Vasconcelos and Nir Orion are among the authors

IGEO Senior Officers

Chair	Roberto Greco, Brazil
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Vice-Chair (Elected)	Clara Vasconcelos, Portugal
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Past Chair	Shankar Rajasekhariah, India
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Secretary	Anish Warriar, India
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Treasurer	Jean-Luc Berenguer, France
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Web Manager	Takashi Sawaguchi, Japan
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Newsletter Editor	Michael Passow, USA
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Next Conference Convenor	Ichiro Matsumoto, Japan
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Co-opted advisor	Chris King, England
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Co-opted advisor	Nir Orion, Israel
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Contact: senior-officers@igeoscienced.org

IGEO supports the implementation of the proposal:

INTERNATIONAL GEODIVERSITY DAY

Proposal arising from the Oxford Geoheritage Virtual Conference (25-29 May 2020)

Geodiversity is defined as the variety of the non-living elements of nature – including its minerals, rocks, fossils, soils, sediments, landforms, topography, processes and hydrological features such as rivers and lakes. Geodiversity underpins biodiversity but has its own values independent of biodiversity. Geodiversity is essential to human well-being and provides the foundations and habitats for all living things. It is the source of materials that build our towns and cities, it provides our energy resources, including renewable energy and the materials mined to manufacture the wind turbines, solar panels, etc; it allows us to bury our waste, provides us with freshwater and attenuates our pollution; it inspires our artists and provides us with incredible landscapes from mountains to coasts. And some sites, known collectively as geoheritage, provide us with the evidence to reconstruct the billions of years of history of our planet and the evolution of life on it. It gives us evidence of past climate and landscape changes and their causes and therefore helps us to understand and plan for the impacts of future environmental changes. Furthermore, geodiversity is fundamental to the implementation of many of the UN's Sustainable Development Goals and is crucial in promoting sustainable use of the Earth's physical resources.

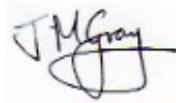
Geodiversity and its significance for humanity are poorly recognised worldwide, and there is an urgent need to increase public understanding. Like biodiversity, many important geoheritage sites and features are at risk from human activities, and yet attempts at geoconservation are limited in many countries. International cooperation is therefore essential to ensure proper recognition and management of the Earth's geodiversity and geoheritage.

Over 600 participants from more than 60 countries came together at the Oxford Geoheritage Virtual Conference, 25-29 May 2020. Appreciating the values of the natural environment and noting the threats from human actions, they shared current research in geodiversity and geoheritage. As four of the conference delegates, we now call for the establishment of an **International Geodiversity Day** aimed at increasing worldwide understanding and awareness of geodiversity and geoheritage issues. We encourage all geoscientists to engage in international cooperation to promote this aim and we call on geoscience and nature conservation organisations worldwide to work together in the development of this **International Geodiversity Day**.

Prof José Brilha
University of Minho, Portugal



Prof Murray Gray
Queen Mary University of London, UK



Dr Jack Matthews
Oxford University Museum of Natural History, UK

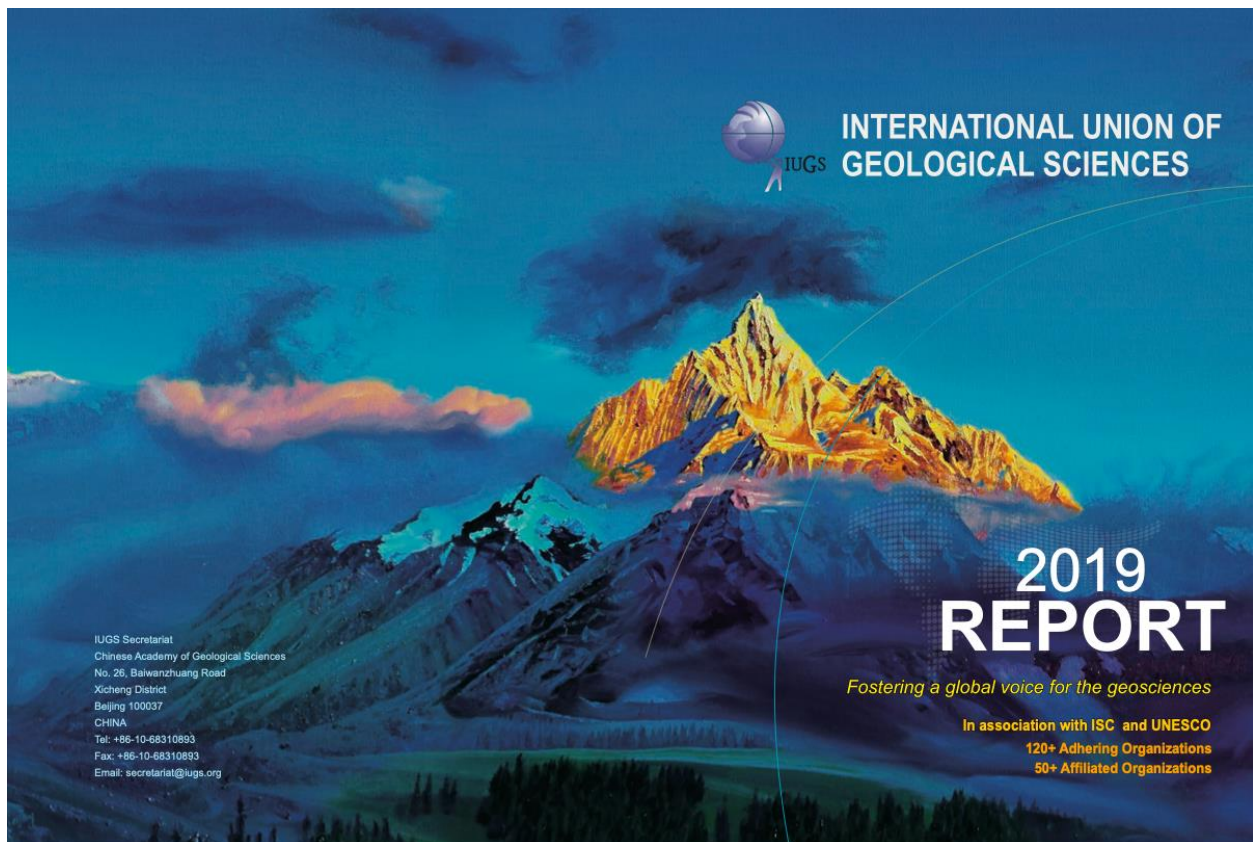


Prof Zbigniew Zwoliński
Adam Mickiewicz University in Poznań, Poland



2019 REPORT OF THE IUGS (INTERNATIONAL UNION OF GEOLOGICAL SCIENCES)

Link: https://98ca4554-1361-4fb1-a4d8-a1bb16d032e6.filesusr.com/ugd/f1fc07_36d0c8e90da341e785d2076e3a8226c2.pdf?index=true



2019 REPORT ON THE EUROPEAN GEOSCIENCES UNION (EGU) FIELD OFFICERS

By Prof. Chris King

The report on the first pilot year of the programme, covering May 2019 to April 2020 has just been published. This shows that the six Field Officers appointed and trained in May 2019 presented workshops to 379 individuals before the coronavirus pandemic curtailed their activities.

The European Geosciences Union (EGU) Field Officers appointed were (<https://www.egu.eu/education/field-officers/>):

- Guillaume Coupechoux, France: edu-fo-fr@egu.eu
- Giulia Realdon, Italy: edu-fo-it@egu.eu
- Gina Pereira Correia, Portugal: edu-fo-pt@egu.eu
- Xavier Juan, Spain: edu-fo-es@egu.eu

The International Geoscience Education Organisation (IGEO)/ International Union of Geological Sciences (IUGS) Field Officers appointed were:

- R. Baskar, India: bourgeoisini@gmail.com
- Yamina Bourgeoisini, Morocco: rbaskargjuhisar@yahoo.com

Following training, the Field Officers returned to their own countries. There, assisted by their supporters, they translated the materials into their own languages, adapted them to their own curriculum and prepared workshop kits. They promoted the workshops through their own professional networks, national networks and attending conferences, whilst developing a workshop evaluation and data collection procedure using questionnaires.

Over the following year they presented 21 workshops in 15 cities to 379 people of whom 94% were teachers and 6% were trainee (pre-service) teachers. 74% of the teachers were secondary (high school) teachers and 26% were primary (elementary) teachers.

A feedback questionnaire was returned by 274 individuals, indicating mean evaluation scores shown below (where 5 is a high rating):

Criterion	Mean evaluation 'score'
My interest in this workshop was ...	4.79
My interest in this workshop for my professional activity is ...	4.64
I am interested in attending other workshops of this kind ...	4.75

This highly successful outcome was supported by very strong written feedback comments.

Following the success of the pilot year, the EGU provided funding to maintain the current four EGU Field Officers and appoint four more. Meanwhile the IUGS agreed to continue funding the current two Field Officers and appoint three more. EGU advertising received nine applications and four people were invited for training in Vienna in 2020, from Albania, Germany, Hungary and Turkey. IGEO and IUGS advertising received seven applications and invitations for training were offered to people from Chile, Malaysia and Togo. Sadly the training for 2020-2021 had to be postponed due to the COVID-19 pandemic, but will take place as soon as new arrangements can be put in hand.

The six current Field Officers are developing plans for 2020-2021 to be implemented as soon as the COVID-19 pandemic allows. Whilst the pandemic has set back plans for the future, it has provided additional planning time and opportunities for online versions of the workshops to be developed.

The data collected shows that the pilot year of the international Geoscience Education Field Officer Programme was successful. The work of the six initial Field Officers will provide a strong foundation for extending the initiative across Europe and internationally. The creative hard work of the six current Field Officers is particularly to be applauded. They have risen to the challenge of the first year of this new initiative in a very impressive way and give great confidence to the future of this endeavour.

Chris King, chris@earthlearningidea.com



https://www.earthlearningidea.com/home/Photo_gallery_7.html

Additional images:

https://www.earthlearningidea.com/home/Photo_gallery_5.html

https://www.earthlearningidea.com/home/Photo_gallery_6.html

INTERNATIONAL GEOSCIENCE EXCHANGES GO VIRTUAL

Due to the COVID-19 pandemic, many of the usual in-person conferences were cancelled, postponed, or shifted to virtual formats. Here are selected links to some of these:

2020 EGU General Assembly <https://www.egu2020.eu/>

2020 IUGS calendar of events: <https://www.iugs.org/calendar2020>

Geological Society of America 2020 Annual Meeting:
<https://community.geosociety.org/gsa2020/home>

AMERICAN GEOPHYSICAL UNION FALL MEETING: <https://www.agu.org/Fall-Meeting>

EUROPEAN METEOROLOGICAL SOCIETY: <https://www.emetsoc.org/ems2020-cancelled-due-to-covid-19/s>

LATIN AMERICA IGEO: <https://laigeo.cloudaccess.host/>

36th IGC (INTERNATIONAL GEOLOGICAL CONGRESS): <https://www.36igc.org/>

LAIGEO: The Latin-American Chapter of IGEO, What we achieved at the moment

We started 2018 super motivated and we were able to achieve many things thanks to the incessant work of our committee, our collaborators and sponsors. We invite you to find out what we have done to encourage you to join this goal of achieving improvements in Geoscience education at all levels in Latin America and the Caribbean.

Members

- The number of new members from Latin America and Caribbean that register on the IGEO website grew considerably (104 members from 17 countries)
- We are already 52 members on LinkedIn.
- On the Facebook page we have 356 followers
- On Instagram 187 followers
- On Twitter 32 followers



LAIGEO platforms

Activities carried out to increase participation and membership

- The LAIGEO logo which was chosen in 2018 carries an Andean blanket that represents the Latin American community. That was our first initiative to promote our representation of Latin America and the Caribbean.
- 7 of our members participated as speakers, lecturers and participants in seminars held in partnership with other institutions at the national level.
- Our professionals were encouraged to make videos where they share their teachings on the internet for the entire public. For example Hector Lacreu (Argentina) in his YouTube channel.
- We manage to hold a series of virtual meetings regularly (at least once a month). The discussing actions are carried out by Google Hangouts and continued on Google Groups.

- There are also a group in LinkedIn, a project in the scientific platform ResearchGate and accounts on Twitter, Instagram, Facebook and Quora to foster the exchange of information between the members.



a). Meeting of creation of LAIGEO (GeoSciEd VIII, Brazil, 2018) b) LAIGEO logo

Our Website

- With the launch of the website, we expanded our mission to the region.
- It allows sharing the activities of national delegations, our meeting minutes and how to be a member of the network.
- In the section 'featured' we have published 20 posts. The most visited are about: First Geotour and Workshop about Geosciences Education in Paraguay (one of the network's greatest achievements), National University of La Plata Museum (Argentina), Volcamp (camp for kids, Panama), education on Geosciences videos (such as Quarantine with Geosciences from Colombia), Biobío Litoral Mining (Geopark Project in Chile).and sharing our 'publications section' in contribution to the campaign #stayathome.
- It was recently introduced a new tab to promote the Geoheritage of the region.
- Next posts: Geopark in the Olavarría (Buenos Aires, Argentina) and Project of Geopark in Paraguay.
- On the section 'Publications' is shared interesting articles on Geo-education by members of the networks.



International Geoscience
Education Organisation
Latinoamérica



PRINCIPAL SOBRE LAIGEO AGENDA DE ACTIVIDADES PUBLICACIONES **GEOPATRIMONIO** DESTACADOS ENLACES RECOMENDADOS

EDITORES WEB

Geositios

Turismo sostenible Patrimonio Geológico Geopatrimonio Geositios

Información sobre Geoparques y proyectos de geositios propuestos en América latina y El Caribe:

UNESCO

Web de la Red Global de Geoparques: los Geoparques son áreas geográficas únicas y unificadas donde los sitios y paisajes de importancia geológica internacional se gestionan con un concepto holístico de protección, educación y desarrollo sostenible. Su enfoque ascendente de combinar la conservación con el desarrollo sostenible, al tiempo que se involucra a las comunidades locales, se está volviendo cada vez más popular. En la actualidad, hay 147 geoparques mundiales de la UNESCO en 41 países. Se encuentra disponible una página web de cada Geoparque Global de la UNESCO, con información detallada sobre cada sitio.

GEOL AC - Red de Geoparques Mundiales de la UNESCO para América Latina y el Caribe: GEOL AC fue creada en 2017 y está

Novedades

Conoce las zonas con potencial para convertirse en geoparques en Bolivia



Ciudad de Piedra en Apolobamba (La Paz). Foto tomada de: <http://www.gob.bo/apolobamba>.

Read more ...

LAIGEO web (tab about Geoheritage)

Quedate en casa leyendo: Compartimos publicaciones sobre Geoeducación en nuestra web

<https://laigeo.cloudaccess.host/publicaciones.html>

Descarga gratuita en pdf
#laigeo, #Geociencias, #quedateencasa



1er Geotour-Workshop sobre Educación en Geociencias
(18 - 22 de Agosto de 2019) – Paraguay
Visita a las Cataratas de Iguazú lado Brasileño




Te gusta Siguiendo Compartir

#igeo, #laigeo, #Geociencias, #Geoeducación, #Latinoamérica #geologia

Dr. Héctor Lacreu

YOUTUBE.COM

La Geología en la Enseñanza de las Ciencias Naturales

Se trata del primer fragmento de la introducción al curso de capacitaci...




Project: **Geoeducation in Latin America**

● Sandra Villacorta ● María Jesús Bravo Pérez ● Diego Arce Regalía

Goal: In July 2018, the VIII conference of the International Geoscience Education Organisation (IGEO) took place and the construction of its Latin American chapter began LAIGEO.

The main goal of LAIGEO is to strengthen the objectives of IGEO in Latin America, in particular the improvement of education in Geosciences in schools and the dissemination of them in society.


Date: 1 July 2018

Introduction: Introduce your project to your audience to tell them what your research is about.

Overview Project log References (15)

Goal: In July 2018, the VIII conference of the International Geoscience Education Organisation (IGEO) took place and the construction of its Latin American chapter began LAIGEO. The main goal of LAIGEO is to strengthen the objectives of IGEO in Latin America...

Hypothesis: Improving Geoeducation could change the future of Latin America.



Some of the most popular posts in our web

IGEO Campaign: "My Earth science educator story"

- The publication of the story of Sandra Villacorta has encouraged other members to write about their own story.
- Ana Castillo, Anete Oliveira and Maria Jesus Bravo are preparing their stories.
- Through this campaign, it is continuing increasing new role models for Geosciences educators.

Historias inspiradoras de educadores en Geociencias de América Latina

Geociencias
Mi Historia
Profesionales
Docentes
América Latina



An unexpected change in direction:
I can not bear myself meaning about it. Why should I have to attend a course of Geology if I know perfectly well that I was to study Chemistry? That was when I was 18 and, after graduating from my technical school in Chemistry, decided to continue my education at University. It was then mandatory to attend (and pass) courses



My career as geoscience teacher owes much to two dear people. In our distant phases of my education. The first was geography teacher in secondary and high school, Herman Juan Gómez, of North American descent. This was a time (in early 1970s) when a descriptive error



My background
I graduated in Geology (BS) in 1974 from the Geosciences Institute of the State of São Paulo, Brazil - IGUSP - a renowned university. I obtained my Masters and Doctorate in Geology at same University in 1980. Working as



Without (geo) chemistry the Earth is not dead ...
The choices I have made through professional life have always been trying to understand the dynamics

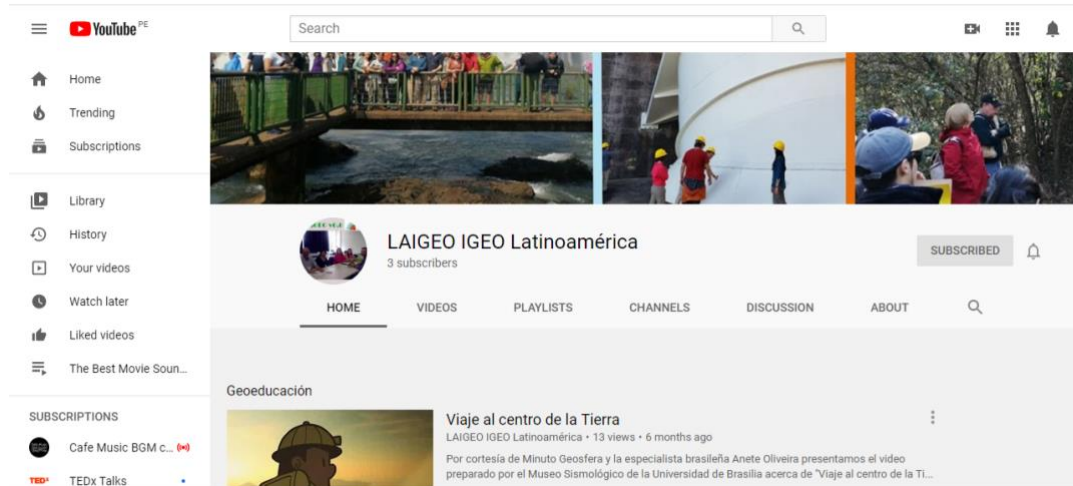


Teaching in a developing country
My father taught me to read at age 5 and since that time I have been encouraged by my teachers at school to read and research. My mother travelled a lot during my childhood and brought me different

Post to promote “My Earth science educator story” in the region

YouTube channel

- We broaden the horizon with our YouTube channel (link: <https://www.youtube.com/channel/UCGsqqkzgxVE-mBYKrADdCGQg>), thus opening up many more possibilities for Latin American and Caribbean educators to learn with audio-visual material.
- The first videos launched were provided by Anete Oliveira.(Brasil): one of them related to the proposal of geopark Caminhos Dos Canions Do Sul and the other one about “Journey to the Center of the Earth” presented at the Science Week 2019 in Brasil.
- Upcoming videos: on the geological museum of the University of La Plata (Argentina), Volcamp (Panama) and the 1st Geotour Workshop on education in Geosciences (Paraguay).



LAIGEO YouTube channel

Next steps

To grow this participation on the Latin-American and Caribbean members in the network we are looking for:

- Alliance with the Geo-Network of Latin American-German Alumni (GOAL): the alliance for the coordination of joint activities in English and Spanish is in process. Professionals from GOAL have been contacted in order to seek a formal alliance. A response was received from GOAL President and letters are being prepared to request a cooperation agreement.
- Increase participation: members are encouraged to be actively involved in the network initiatives.
- We are working on the creation of videos about Geoeducation for our audio-visual campaign.
- Production of communication aids (leaflets, brochures, banners, posters, signs) about geoeducation for the LAIGEO website
- More interaction on LinkedIn and collaboration to answer questions from LAIGEO followers in social and professional networks (Quora, Facebook, twitter, Researgate).