

Minutes
M-002-2023-IUGS-COGE
COGE General Assembly 2023

Date:	3rd February 2023
Time:	18.00 hours (Perth, Australia)
Place/Type (chair):	Virtual (Zoom meeting, hosted by Sandra Villacorta)
Attendees:	Sandra Villacorta (SV), Ian Clark (IC), Sharon Locke (SL), Gerel Ochir (GO), Yamina Bourgeois (YB), Clara Vasconcelos (CV), Roberto Greco (RG), Babak Asli (BA), Amiel Nieto (AN) and Tiago Ribeiro (TR)
Apologies:	Susanna Occhipinti (SO), and Maria Jesus Bravo (MJB)

Item	Description		
1	Quorum: There being ten (10) committee members present, a quorum was declared, and the meeting proceeded.		
2	Business arising from previous meetings/communications		
	Resolution	Responsible	Status
	Opening a calling for a COGE deputy chair and other members in the COGE Board	SV/IC	Pending
	Chris King medal proposal	SV	Completed
	To create a sub commission which will oversee the Geoscience education field officers' Programme	SV	Completed
	Send to SV previous reports and minutes	IC	Completed
	Updating website	SV	Completed
	Invite other professionals of countries not represented to apply as COGE members	All	On going
	Sending more information about the participation in the next International Geological Congress	Young-Shin Park	Completed
	To create COGE social media accounts	SV	Completed
3	Review of agenda subjects		
	Agenda subject	Action	Responsible
	COGE members report on national activities. <ul style="list-style-type: none"> ● Australia <ul style="list-style-type: none"> ➤ IC mentioned that the Australian Earth Science Convention is happening in the middle of the year and that he will attend, and SV will chair a session. ➤ On the Australian geoscience curriculum, IC mentioned that it varies from state to state. It has been updated, and there are arguments over its content and whether it is appropriate for each level. 	To submit missing national reports	Members who did not reported yet

<ul style="list-style-type: none"> ● Mongolia <ul style="list-style-type: none"> ➤ In 2022, GO organised guided visits to the Museum of Geology and Mineral Resources for training high school students in mineral recognition and trips to Mongolian paleontological geosites to encourage them to pursue fields of geoscience. ➤ GO gave a lecture on geoscience education and sustainability in Papua New Guinea and presented at a Women in Geoscience in Mining event. ➤ The Mongolian Geological Society organized a series of workshops titled "Geoscience for Society" for high school teachers, including exhibitions, lectures for the public, and student activities through clubs, workshops, Olympiads, and conferences. ➤ Several open-access and peer-reviewed papers were published in the Mongolian geoscience journal showcasing master's and PhD research work. ➤ The support of mining companies was also mentioned to develop geoscience education activities. ● Brazil <ul style="list-style-type: none"> ➤ RG mentioned Campinas that his research group continued the translation and updating of the Earth Learning idea in Brazilian Portuguese, the translation is published here: https://www.ige.unicamp.br/geoideias/ In addition, they completed the translations of Chris King E-Book <i>Exploring Geoscience</i>. This translation was published on the IGEO website. ➤ A new edition of the Brazilian Earth Science Olympiad and the Geography Olympiad were held online in 2022, with the last test in Campinas (SP). ➤ As part of an undergraduate course for future geography teachers 6 lectures, an active learning module on sustainability and diplomacy was held at Unicamp. This activity involves delegations from the United States (in 2022) and Ukraine and Indonesia in 2021. ● Peru <ul style="list-style-type: none"> ➤ SV informed that there is currently no national program for teaching geoscience at school levels, but the Peruvian section of the International Association for Promoting Geoethics has been supporting geoscience education activities since 2018. ➤ Events held in 2022: the first Peruvian Earth Science Olympiads, MinerLima: a mineral exhibition which involves workshops and field trips for general audience, and organization of webinars on different geoscience fields and participation in the translation of the book "Exploring Geoscience Across the Globe" into Spanish. ➤ Upcoming events: the 2nd Peruvian Earth Science Olympiad and MinerLima 2023. ● Chile (information submitted by email) 		
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<ul style="list-style-type: none"> ➤ MJB informed that in Chile, there are two main projects for this year: Select the Chilean team for IESO 2023 through the 2nd inter-school competition on Earth Sciences and enrol more teachers in the Diploma in Didactics of Earth Sciences. Chilean specialists will work alongside Héctor Lacreu and other LAIGEO colleagues in this program created by LAIGEO Chile. ● South Korea (information submitted by email) <ul style="list-style-type: none"> ➤ The revised geoscience curriculum for 2022 focuses on enhancing basic scientific knowledge, integrating science with real-world experiences, incorporating inquiry-based activities, and expanded science elective courses. The emphasis will be on the connection between the environment and climate change. ➤ The KESO Olympiad held in 2022 selected students who participated at IESO 2022. As a result, Korean students won 1 gold, 4 silver, and 3 bronze medals. ➤ The 37th International Geological Congress will be held in Busan, Korea in 2024 and will be organized by several organizations including the Geological Society of Korea and sponsored by government agencies. The Local Organizing Committee will provide support for young and financially disadvantaged geoscientists to attend through the GeoHost program. 		
<p>Introduction of new COGE members</p> <ul style="list-style-type: none"> ● Mexico. AN explained he is a volcanologist working at a National University of Mexico (UNAM) at the newest School of Earth Sciences at UNAM. He explained there are four hundred students right now. His subject of interest are georisks prevention ang Geoheritage, with focus mainly on lava tubes that are found in Mexico. ● Iran BA is a researcher and PhD student in economic geology at the University of Tehran. He aims to solve global issues in the geoscience domain, particularly in geoscience education. Based on his evaluation of Iranian geoscientists' academic research activities (graduate student theses and dissertations), he proposes using scientometric and GIS mapping of world geoscientists' academic research activities to support global geoscience education policies and activities standardisation. He states that this kind of research can contribute to achieving the United Nations Sustainable Development Goals (UNSDG). He plans to write academic papers and start a project on standardising geoscience education policies and activities worldwide. For that purpose, he requests COGE support to call for the contribution of global geoscience education organisations. ● Portugal TR informed he is a PhD student in science teaching and dissemination at the Faculty of Science at the University of Porto. 	<p>To prepare minutes of this meeting</p>	<p>SV</p>
	<p>To send minutes of this meeting to COGE members</p>	<p>IC</p>

<p>He said he also is a biology teacher at secondary school. Mentioned his research interests: geoscience education, geoethics, citizen science. About the geoscience education activities in Portugal TR mentioned there are higher education institutions promoting lectures and workshops to engage students in learning science and directly involved in initial training of future geoscience teachers, promoting non-formal education and geoscience communication activities in schools and universities. Also, development of science summer courses and participation in science exhibition in Europe researchers' night with their science activities. Finally notified that Portugal has an EGU field officer in contact with schools developing practical activities for example the summer training schools.</p> <ul style="list-style-type: none"> • USA SL introduced herself and mentioned the transition happening in the USA geoscience education community and that she was appointed to the Committee of the Geological Society of America, which has a strong interest in international activities. She explained that the geoscience education in the USA is strong but scattered and there is a need for more international networking. She hopes to support these efforts in the next few years. 		
<p>Presenting COGE working plan-strategy 2023</p> <ul style="list-style-type: none"> • SV presented a background of the commission and its functions, as well as the current structure and sub-commissions, were explained: <ul style="list-style-type: none"> ➢ The Chris King Awards subcommittee, will launch a proposal which will be presented at the following executive committee of IUGS in Belfast on February 14th. ➢ The GEFO Program, set up by Chris King in 2019 with EGU education's help, will be continued under SO supervision. ➢ Social media subcommittee, to manage social media platforms of COGE. ➢ Publications subcommittee, which will review all the contents related to COGE (academic articles, abstracts, books, and others) • A SWOT analysis of the commission was included in the operational plan and the planned activities. • SV indicated that the expected outcomes for this year are open to other ideas, such as increasing the number of publications. • SV emphasized the importance of the commission in providing better geoscience education worldwide and called for the support of COGE members, which is crucial, to continue its initiatives and activities. SV encouraged members to volunteer for the subcommittees without a leader. <p>COGE Budget</p> <ul style="list-style-type: none"> • IC discussed the budget request and explained the current balance of \$5,000. The budget will be used to support the GEFO program (specifically to replenish apparatus and materials), pay for representatives' expenses to participate in 	<p>Request volunteers for subcommittees without a leader</p>	<p>SV/IC</p>

	<p>conferences, website management, bank fees, and the Chris King medal. A significant expenditure is also for the chair's attendance at the executive committee meeting in Nairobi, which requires an additional \$9,000 from IUGS. This budget request will be decided at the IUGS 78th Executive committee in Belfast, where SV will be attending and reporting on behalf of COGE and explain why we needed this budget.</p>		
	<p>Announcement of continuing GEFO Program</p> <ul style="list-style-type: none"> • IC informed that COGE is working with EGU education to oversee the Geoscience field officer program (GEFO) and that COGE and EGU education will share funding and responsibilities for the program. • It was mentioned that the GEFO program aims to promote good teaching and help teachers develop effective teaching programs in their countries. • It was explained that GEFOs will be trained by EGU and COGE will provide support. • The goal is to have a successful program, but not to establish new GEFOs until the program is well established. • SO is in the program coordination joining efforts to EGU Education representatives. • IC mentioned we are not calling new GEFOs. This year will be to evaluate GEFO Program performance. 	To share minutes of meeting with EGU Education	SV
	<p>Presentation by Babak Asli on scientometric research</p> <ul style="list-style-type: none"> • BA presentation aimed to improve understanding of scientometrics in tracking geoscience education activities. The presentation analyzed the geoscientific activities of IGEO members based on their 2020 reports. According to Asli and Pireh (2022) IGEOs members' activities have been classified into 100 types and grouped into 14 profile groups and five supergroup activities, resulting from their members' professional experience and national characteristics. Research findings indicated that informal and non-standard reporting is unacceptable as a global roadmap and to meet global needs. • The proposal for a solution is that educators worldwide should prepare their geoscience education strategies and activities from a global perspective. BA stated that scientometrics could help geoeducators organize their actions to achieve the UNSDG. • In addition, BA proposed to apply scientometrics for standardizing COGE members' activities and reporting. 	To request opinion of COGE members on BA proposal	SV/IC
4	<p>Closing of General Assembly</p> <ul style="list-style-type: none"> • SV congratulated and thanked the support of commissioners. • IC emphasized the need for support by taking on subcommittees and encouraged members to volunteer for collaborating with the launching of the Chris King Medal. • It was also stressed the importance of sharing the workload as SV has been carrying a lot of work on her own. 	<p>Calling Chris King Medal evaluators committee</p> <p>Launching Chris King Medal on COGE website</p>	<p>IC</p> <p>SV</p>

5	Next meeting: to be organized by SV	
	Time	
	Date	March/April
	Place/Type	Virtual (Zoom meeting)
6	Meeting close: 19:10 hours (Perth, Australia)	
Minute taker:	SV	
Review:		
Date:		

