

	IUGS – Annual Report 2025 Commission of Geoscience Education https://iugscoge.org/	
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1. BACKGROUND INFORMATION

Name of the IUGS Constituent Group	Geoscience education
Nature of the Constituent Group (commission/task group/initiative)	Commission
Year when the Constituent Group was approved by IUGS	2004
Website/social media links	https://iugscoge.org/
Year of reporting	2025
Submitted by:	
Given Name	Sandra Paula
Family Name	Villacorta Chambi
Gender	Female
Role in the IUGS Constituent Group	Chair
Year of appointment to the position in the IUGS Constituent Group	2022
Institution/Affiliation	IAEG Peru, University of Western Australia
Country	Peru
Email address	villacortasp@gmail.com

2. ORIGINAL WORKPLANS FOR 2025

Provide a short summary (in bullet points of maximum 500 words) of what was planned for 2025 as stated in your Annual Report for 2024

The Commission's key goals for 2025 focused on expanding its global reach, quality, and inclusivity in geoscience education:

- Global Collaboration: Foster new collaborations with IUGS Scientific bodies to advance geoscience education worldwide, focusing specifically on addressing global challenges.
- Program Expansion: Expand participation in the Geoscience Education Field Officer (GEFO) program by including new officers from countries currently unrepresented.
- Impact and Outreach: Increase the reach and impact of the geoscience education community through targeted workshops, webinars, high-quality publications, and strategic outreach campaigns.
- Recognition and Mentorship: Award the 2025 Chris King Medal to highlight the contributions of an outstanding educator, and provide mentorship and training opportunities through the GEFO internship.
- Equity, Diversity, and Inclusion (EDI): Advance EDI in geoscience education through focused webinars, social media campaigns, and events designed to engage under-represented communities.
- Guideline Promotion: Promote the creation of practical guidelines to foster excellence and innovation in the field.

The work plan detailed the specific actions for 2025:

- Assemblies and Meetings: Host the COGE General Assembly virtually in March 2025 and conduct quarterly virtual meetings with Commissioners to review progress.
- GEFO Training Workshops: Support the GEFO program with in-person training workshops in Ghana (February 2025) and Bolivia (November 2025).
- Membership & Partnerships: Launch campaigns to increase membership, appoint new GEFO officers from under-represented regions, and finalize Memorandums of Understanding (MoUs) with two organizations. The goal is to recruit at least four new members from unrepresented countries.
- Publications: Publish two issues of the "Teaching and Communication of Geosciences" journal in partnership with IGc-UNAM.
- Conferences: Ensure regional representation at the AGU Fall Meeting 2025 (by the vice-chair) and organize EDI-focused and POC webinar series. The plan also includes presenting at least two conference papers at international geoscience events.
- Outreach: Implement a global campaign to promote the Chris King Medal 2025 and host EDI-focused events, including a photography exhibition in Mexico.

3. ACHIEVEMENTS IN 2025¹

3.1 Publications

List publications in 2025 that include research sponsored by IUGS Funds and where IUGS is acknowledged (insert rows if needed).

Paper	Authors and Journal info (year, volume, pages)	Link to pdf
1	Ribeiro, T., & Vasconcelos, C. (2025). Visão holística e geoética do sistema Terra: Recursos educativos para a educação ao longo da vida. Universidade do Porto, Faculdade de Ciências. ISBN: 978-989-36122-0-0.	https://doi.org/10.34626/10216/169215/f9k0-x887
2	Vasconcelos, C., & Ribeiro, T. (2025). The interplay of geoheritage and outdoor experiences through education and communication. In E. Reynard & J. Brilha (Eds.), Geoheritage: Assessment, Protection, and Management (2nd Edition) (pp. 411-430). Elsevier.	https://doi.org/10.1016/B978-0-443-28997-2.00016-9
3	Ribeiro, T.; Vasconcelos, C.. (2025). Earth System Science and Education: From Foundational Thoughts to Geoethical Engagement in the Anthropocene. Geosciences, 15, 224.	https://www.mdpi.com/2076-3263/15/6/224
4	Paz, Marta & Vasconcelos, C. (2025). Scientific Literacy to address Sustainability: A study on deep-sea Mining Education with Adolescents from a Social Care Institution. Sustainability 17(2), 688.	https://doi.org/10.3390/su17020688
5	Rodrigues, C. Ribeiro, T. & Vasconcelos, C. (2025). Game On: Engaging Secondary Students in Evolution Learning. Filodiritto Editore – 15th International Conference The Future of Education – Hybrid Edition, p. 528-534. ISBN 979-12-80225-85-6. v ISSN 2384-9509. DOI 10.26352/L625 2384-9509	https://conference.pixel-online.net/FOE/files/foe/ed0015/FP/3366-GAME7312-FP-FOE15.pdf
6	Occhipinti, S. (2025). Rethinking Geoscience Education: Integrating SDGs for Next-Generation Learning. European Geologist, 59. https://doi.org/10.5281/zenodo.16442974	https://doi.org/10.5281/zenodo.16442974
7	Occhipinti S. Motivation for Learning Geosciences: The Teaching-Learning Process – Analysis, Evaluations, and Proposals. In: Motivation in Learning. JANUARY 2025	https://www.intechopen.com/online-first/1200725

¹ until 30 Nov 2025. For December please indicate planned activities and respect the ceiling of granted funds for 2025.

8	CAMPRUBI, Antoni; VILLACORTA, Sandra P. y ALANIZ-ALVAREZ, Susana A.. Strengthening Geosciences in Mexico through a geoethical perspective. Bol. Soc. Geol. Mex [online]. 2025, vol. 77, n. 2, A170725. Epub 19-Nov-2025. ISSN 1405-3322. https://doi.org/10.18268/bsgm2025v77n2a170725 .	https://www.scielo.org.mx/scielo.php?pid=S1405-33222025000200008&script=sci_abstract&lng=en
9	Villacorta, Y. C., Piscoya, J. C. P., Villacorta, S. P., & Alva, C. (2025). Impact of social media on geoscience outreach: Strategic and metrics analysis in a Peruvian organization. Teaching and Communication of the Geosciences, 4(1), 24–36.	https://encomunicacionct.geociencias.unam.mx/index.php/comunicaciongeociencias/articulo/view/69
10	Aquino-Martínez L.P., Islas-García A., Mejía Luna I., Velázquez Cisneros A.G., León Corona R.E. (2025). Lombricomposta: una experiencia educativa para transformar residuos en conciencia ambiental. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 1, p. 1-8	https://doi.org/10.22201/cgeo.29928087e.2025.4.1.78
11	Flores-Ocampo, I. Z., Flores-Cortés, M., Guadalupe-Díaz, I., Ibarra-Rueda, S. E., Acevedo-Granados, I. V. y Pérez-Alvarado B. Y. (2025). Del armario al océano: la huella invisible de las microfibras plásticas en la industria de la moda. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 1, p. 9-1	https://doi.org/10.22201/cgeo.29928087e.2025.4.1.76
12	Villegas-Vicencio, L. J., Villegas-Mendoza, J. R., Gómez-Ocampo, E., Trejo-Escamilla, I. y Olivas-Valdez, J. Á. (2025). Aprendizaje de conceptos de Ciencias del Mar en niños de educación básica: un estudio comparativo entre Montessori y la Nueva Escuela Mexicana. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 1, p. 15-23	https://doi.org/10.22201/cgeo.29928087e.2025.4.1.90
13	Juárez-Arriaga, E. (2025). Origen y desarrollo del Léxico Estratigráfico de México, una herramienta para mejorar el conocimiento geológico del territorio mexicano. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 1, p. 37-44	https://doi.org/10.22201/cgeo.29928087e.2025.4.1.70
14	Minero, F., Caamaño, I., Barroso-Vargas, A., Caudillo-Barrios, C. G., Villavicencio, F., Villegas-Zuppa, Y., Moguel, B. y Prado, A. (2025). Análisis de la distribución espacial y caracterización de microplásticos en el cráter del volcán Rincón de Parangueo. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 1, p. 45-52	https://doi.org/10.22201/cgeo.29928087e.2025.4.1.53

15	Nieto-Samaniego, A. F., Xu, S., Nieto-Fuentes, R. y Del Pilar-Martínez, A. (2025). Entendiendo los conceptos desplazamiento y separación en fallas geológicas con TruDisp 2.0. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 1, p. 53-60	https://doi.org/10.22201/cgeo.29928087e.2025.4.1.56
16	González-Partida, E., Madondo, J., Mishra, S., Carrillo-Chávez, A., Kumar-Verma, D. S., Dávila, Y. y Pandarinath, K. (2025). Metodología de exploración de recursos geotérmicos de alta entalpía. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 1, p. 61-65	https://doi.org/10.22201/cgeo.29928087e.2025.4.2.71
17	Fernández-Guevara G.D., Flores-Ocampo I.Z., Cruz-Ramírez C.J.. (2025). ¿Qué nos dicen los circones? Descifrando el origen de los sedimentos costeros. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 1, p. 66-73	https://doi.org/10.22201/cgeo.29928087e.2025.4.1.77
18	Hernández-Espriú, A., Guzmán-Hidalgo, E., Arciniega-Esparza, S. y Sepúlveda-Hirose, R. (2025). Chateando sobre hidrogeología con ChatGPT: primer estudio exploratorio sobre su aplicabilidad en la enseñanza de geociencias. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 1, p. 74-98.	https://doi.org/10.22201/cgeo.29928087e.2025.4.1.88
19	Ventura-Donjuan, J. L., Ocampo-Díaz, A. U., Aceves de Alba J., Gómez-González J. M. y Ocampo-Díaz, Y. Z. E. (2025). Desarrollo de una propuesta didáctica para el análisis morfológico de partículas clásticas del tamaño de las gravas con el programa Forma. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 1, p. 99-112	https://doi.org/10.22201/cgeo.29928087e.2025.4.1.74
20	Vásquez-Serrano, A. (2025). Chevron Folds: un recurso interactivo para visualizar el mecanismo de deslizamiento por flexión (flexural slip) en el desarrollo de pliegues tipo chevron . Enseñanza y Comunicación de las Geociencias, v. 4, núm. 1, p. 113-119	https://doi.org/10.22201/cgeo.29928087e.2025.4.1.79
21	Olivares-Casillas G., Vázquez-Molina M.Y., Correa-Metrio A. (2025). Uso del sistema Livingstone en ambientes acuáticos continentales: una técnica eficaz para la recuperación de núcleos sedimentarios. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 1, p. 120-126.	https://doi.org/10.22201/cgeo.29928087e.2025.4.1.80

22	Del Pilar Martínez A., Angeles Moreno E., Loza Aguirre I., Serrano Cruz M., Zavala Esquivel A., Soto Mendoza M. (2025). Videoexcursión geológica en el sector sur de la Veta Madre, Distrito Minero de Guanajuato, México. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 1, p.126-132	https://doi.org/10.22201/cgeo.29928087e.2025.4.1.86
23	Carrillo-Chávez, A., Soto, V., Carrasco-Núñez, G., Vazquez-Salem, L., Rueda-Garzón, L. F. y Calvo-Ramos, D. K. (2025). Guía geológica de excursión de campo (ascenso) al volcán Citlaltépetl (Pico de Orizaba, ruta cara norte - Glaciar de Jamapa). Enseñanza y Comunicación de las Geociencias, v. 4, núm. 1, p. 134-145	https://doi.org/10.22201/cgeo.29928087e.2025.4.1.81
24	Cid-Villegas, G. y Guzmán-Speziale, M. (2025). Sismicidad histórica en Chiapas, México, un breve vistazo al pasado. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 2, p. 1 - 15.	https://doi.org/10.22201/cgeo.29928087e.2025.4.2.84
25	David Yáñez-Dávila, Antoni Camprubí, Néstor Cano, Eduardo González-Partida, Edgar Santoyo. (2025). De los metadatos a la comprensión: hacia una enseñanza e investigación de las geociencias basada en análisis sistemáticos. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 2, p. 85-94.	https://doi.org/10.22201/cgeo.29928087e.2025.4.2.101
26	Zavala-Reyes, J. C., Cuevas-Sandoval, S., González-Balderas, R. M., Arizaga, S., Liera-Grijalva, C. A., Enríquez, C. y Mariño-Tapia, I. (2025). Observatorio comunitario como herramienta para conocer la temperatura del suelo en un entorno urbano y periurbano: el caso de Mérida, Yucatán. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 2, p. 50-61.	https://doi.org/10.22201/cgeo.29928087e.2025.4.2.85
27	Antonio-Durán, Y. Z, Robledo-Solano, L. A., Araujo-Alvarado, M. I., Reyes-Ayala, J. D. , Sánchez, U. , Parra, D. (2025).Comunidad sierragrafía: cartografía artística y participación ciudadana en la sierra madre oriental. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 2, p. 16 -22.	https://doi.org/10.22201/cgeo.29928087e.2025.4.2.102
28	Edgar Andrew-Reyes, Jorge Aceves de Alba, Aarón Ulises Ocampo-Díaz, Yam Zul Ernesto Ocampo-Díaz.(2025). Formsp: una herramienta en python para el análisis de la forma de partículas clásticas para la	https://doi.org/10.22201/cgeo.29928087e.2025.4.2.73

	enseñanza y la investigación. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 2, p. 73-84.	
29	Ramírez-Corales, G., Martínez-Almendarez, A., Aceves de Alba, J., Ocampo-Díaz, Y. Z. E. y Sánchez-Pérez, J. E. (2025). Una propuesta pedagógica para el análisis cuantitativo de la abrasión de las gravas en sistemas fluviales empleando GraphicForm. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 2, p. 23-34.	https://doi.org/10.22201/cgeo.29928087e.2025.4.2.7
30	Ramírez-Vázquez L. y Cruz-Castañeda J. (2025). Aprendizaje interdisciplinario en Química Prebiótica: experiencia didáctica de servicio social vinculado a las Ciencias de la Tierra. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 2, p. 35-40 .	DOI: 10.22201/cgeo.29928087e.2025.4.2.93
31	Reyes-Ayala K.I. y Contreras-Arriaga A.D. (2025). Manual de cartografía geológica planetaria: fundamentos y técnicas para la introducción de geocientíficos al estudio de superficies extraterrestres. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 2, p. 41-49 .	DOI: 10.22201/cgeo.29928087e.2025.4.2.96
32	Olea-Olea, S., Ortiz-Madrigal, N. E., Sánchez-Murillo, R., Martínez-Casas, Z., Zamora-Martínez, O., Tadeo-León, J. y Ramírez-Serrato, N. (2025). Explorando el agua subterránea de Paracho de Verduzco, Michoacán: estudio físico, químico e isotópico con enfoque didáctico. Enseñanza y Comunicación de las Geociencias, v. 4, núm. 2, p. 62-72.	https://doi.org/10.22201/cgeo.29928087e.2025.4.2.97

3.2 Conferences/congresses/workshops

Provide information on all early-career researchers and postgraduate students who attended scientific conferences/ congresses/workshops and meetings related to the constituent group activities/fieldworks, using IUGS funds allocated for the year 2025 (insert more columns if more than one participant attended the same event, and insert more tables if more than one event was participated in)

Name of participants (insert rows if needed)	<i>Name of participant 1</i>	<i>Name of participant 2</i>	<i>Name of participant 3</i>
Gender	Female		
Age	Below 40		
Affiliation	Catholic University of Bolivia San Pablo		
Country	Bolivia		

Name of event (conference/congresses/w orkshops, dedicated meetings, fieldworks.)	IWA Water and Development Congress & Exhibition		
National/International	International		
Type of presentation if any (poster/oral presentation)	panellist/presenter		

Name of participants (insert rows if needed)	<i>Name of participant 1</i>	<i>Name of participant 2</i>	<i>Name of participant 3</i>
Gender	Female	Female	Male
Age	Below 40	Below 40	Below 60
Affiliation	University of Ghana	University of Coimbra	Indira Gandhi National Open University
Country	Ghana	Portugal	India
Name of event (conference/congresses/w orkshops, dedicated meetings, fieldworks.)	2025 GEFO Workshop in Accra (Africa)		
National/International	National		
Type of presentation if any (poster/oral presentation)	presenter	presenter	presenter

3.3 Other results

List any relevant activity that was supported by funds allocated by IUGS (insert rows if needed)

Nature of the activity	Support of the Journal of CGEO-UNAM
Objective of the activity	Publish geoscience education material in Spanish
Outcome	15 peer-reviewed articles in the Journal Teaching and Communication of Geosciences
National/International	National
Name of participant(s) (insert rows if needed)	Rodrigo Gutierrez
Gender	Male
Career status (early/mid/late)	Early
Affiliation	UNAM
Country	Mexico

Nature of the activity	Photographic Exhibition at the International Day of Women and Girls in Science
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National/International	National
Name of participant(s) (insert rows if needed)	Liliana Corona
Gender	Female
Career status (early/mid/late)	Early
Affiliation	UNAM
Country	Mexico

Nature of the activity	Workshop “Natural Hazards and Their Impacts on Sustainable Natural Resource Management”
National/International	National
Name of participant(s) (insert rows if needed)	Kholoud Mohammed
Gender	Female
Career status (early/mid/late)	Early
Affiliation	Cairo University
Country	Egypt

4. INTERACTIONS

4.1 Interaction with other IUGS constituent group(s)

Name of the IUGS Constituent Group(s)	type of interaction and which are the results (e.g., joint workshop/publication/session at international conferences, etc..)
European Federation of Geologists	S Occhipinti is a Mentor for Young Scientist
IGC 2028	- Education Outreach and YES Committee: S Occhipinti (co-chair), Villacorta (member) - International Advisory Committee S. Villacorta (member)
IGEO	- S Occhipinti: Chair for IESO 2026 in Italy - S Locke, Vice chair
AGU Education	S Locke, Member

4.2 Interaction with other international organizations and/or projects outside IUGS

Name of the International Organizations and/or Projects	type of interaction and which are the results (e.g., joint workshop/publication/session at international conferences, etc..)
REDCITIA (Argentina)	COGE-REDCITIA Memorandum of Understanding was established in 2025.
IAEG Peru	Ongoing support for the organization of the 2026 Geoscience Olympiad in Peru, webinars in Spanish about Geoscience education, EDI, Applied Geology

GeoSCIED X (Australia)	COGE is a supporter organisation, promoting the event on their social media platforms
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5. INCOME IN 2025

SUBVENTIONS	USD/EURO
From IUGS	N/A
From other sources (specify the source and amount, insert rows if needed)	N/A
TOTAL	N/A

6. EXPENDITURES IN 2025

Provide a summary of the activities that were supported financially by the funds allocated by IUGS in 2025. Further detailed about the expenditures must be provided in the spreadsheet “Reported Expenditures” in IUGS Annual Report 2025 COGE.xls

Insert categories in new rows if necessary.

ACTIVITIES	USD/EURO
Conferences/congresses/workshops attended by members of the constituent group	0
Conferences/congresses/workshops attended by early-career researchers and postgraduate students	0
Costs related to committee meetings/fieldworks of the of the constituent group	8.963.72
Costs related to committee/fieldworks of the Constituent Group attended by early-career researchers and postgraduate students	1,310.00
Publications fees	0
Dissemination/outreach/website	943.04
Other costs (specify the type of costs) (Bank fees and Journal Editing Cost)	640.2
TOTAL EXPEDITURES	11,856.96