

UNESCO IGCP 636

Summary of 2024 activities
and future plans



UNESCO
IGCP 636



New institutes that joined in 2024



Letter of intent received until now from:

- Peru: UTEC Universidad de ingeniería y tecnología
- Turkey: İzmir Institute of Technology
- Scotland: University of Glasgow
- New Zealand: University of Auckland

GeotheRoom



12:31 PM

← IGCP-636 Geothermal Resources in Energy Transition



IGCP-636 Geothermal Resources in Energy Transition

@igcp636-geothermalenergy3 • 61 subscribers • 27 videos



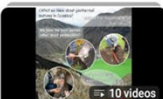
Unifying international research forces to unlock and strengthen geothermal exploitati...

en.unesco.org/international-geoscience-programme/projects/636 and 1 more link

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10 videos

2024



Webinar Perú Parte 1

IGCP-636 Geothermal Resources in Energy Transition
66 views • 5 months ago



Turkiye Webinar

IGCP-636 Geothermal Resources in Energy Transition
87 views • 3 months ago



Webinar Perú Parte2

IGCP-636 Geothermal Resources in Energy Transition
27 views • 3 months ago



Webinar University of Glasgow

IGCP-636 Geothermal Resources in Energy Transition
67 views • 2 months ago



University of Auckland - August 2024

IGCP-636 Geothermal Resources in Energy Transition
41 views • 3 weeks ago

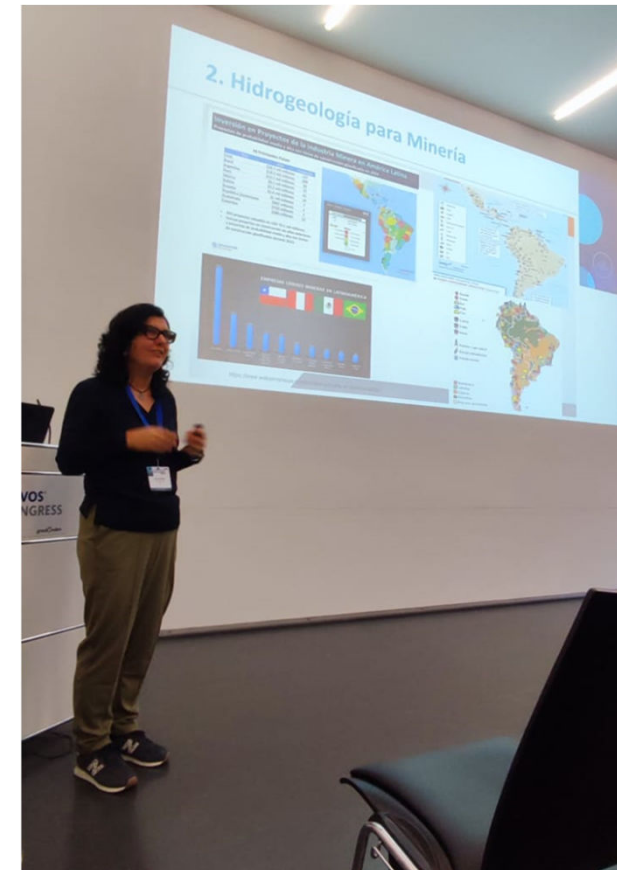
A new webinar is being organized in November about Shallow Geothermal Resources in Portugal

IAH conference, Davos

4.09. Groundwater relevance in the context of water-energy-food nexus: applications, perspectives and challenges

Daniele, Linda; University of Chile, Santiago, Chile
Blessent, Daniela; University of Medellin, Medellin, Colombia
Raymond, Jasmin; Institut national de la recherche scientifique, Quebec Canada
Alcaraz, Mar; Polytechnic University of Cartagena, Cartagena, Spain
Somma, Renato; INGV, CNR-IRISS and CNR-ISMAR, Naples, Italy

Ensuring a secure and sustainable water supply is a major challenge for the 21st century. Population growth, urbanization, and industrial/agriculture expansion need an increasing water provision. Furthermore, under the current climate scenarios (i.e. surface water depletion) groundwater is fulfilling the growing water requirement for food and energy production. 2010's estimations indicate that groundwater supplied 36% of potable water, 40% of irrigated agriculture, and 24% of direct industrial water supply. Groundwater use is growing at a rate of 5% per year, and by 2050, the food, energy and water demand will increase by 50%. These considerations highlight the need of innovative and integrated solutions to tackle the intertwined challenges of the complex interlink between water, energy, and food supply systems under current climate variability for the near future.



GRC conference



Workshop 3: Rural Geothermal Across the Americas

📍 King's 1 (Grand Ballroom)

🎤 Speakers:

- Jessica Eagle-Bluestone
- Trey Gerfers
- Jackson Grimes
- Ximena Guardia Muguruza
- Dr. Jasmin Raymond
- Lev Ring
- Ishan Sharma
- Ken Wisian



Field course – Québec


- Characterization of the subsurface
- Support from COLUQ programme




“Episodes” article



Dear Daniela
Hope you had a nice break..
Please send us your manuscript and we will see how can we promote your paper from our side
Thanks
Ozlem
...

 Daniela Blessent 29 ago.
Adiyaman Lopes, Ozlem, Sabo, Rania, + 2

 Unveiling Portugal's Geothermal Lan...
DOCX - 11.3 MB

Dear all,

in the attached file you will find the manuscript we tried to submit to EPISODES.

Please use it to share in the IUGS / IGCP website.

Kind regards,


Daniela

Special issue in FYM



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Frontiers for Young Minds Articles Collections Participate Sections About EN



Why do scientists drill the ground beneath our feet?

92,794 views

Participating Sections



Collection Editors Renato Somma, Daniela Blessent, Margarita Caballero, Thomas Wiersberg, Blas Valero Garcés

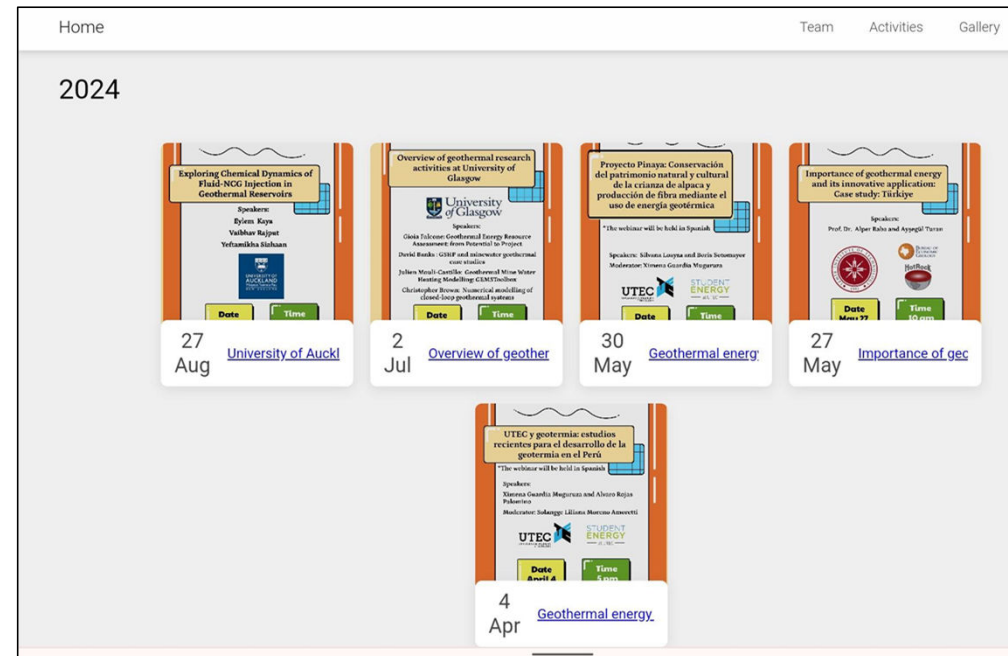
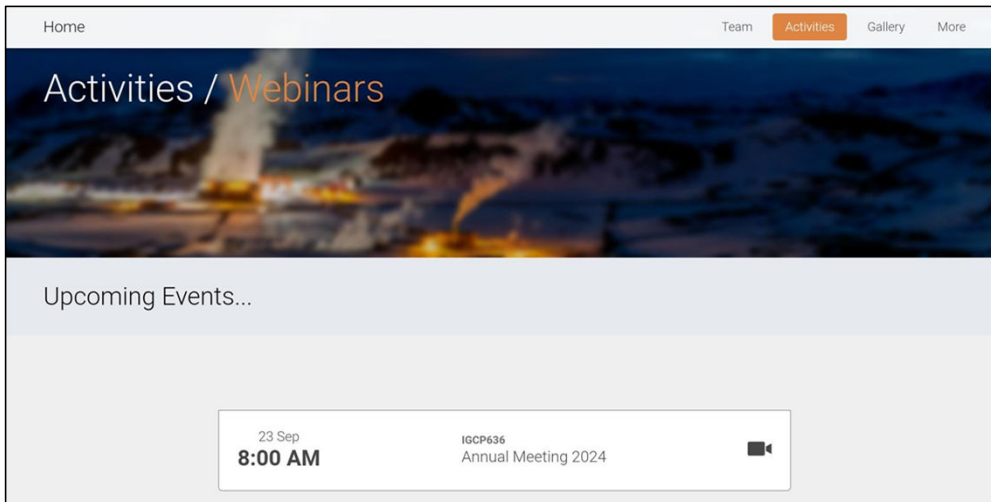
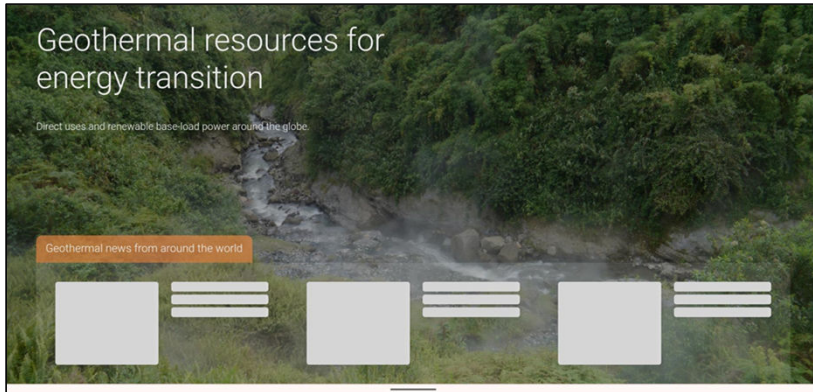
About this collection



Drilling a hole into the crust of our planet can help scientists unravel some of the many secrets that otherwise would remain hidden in its interior. Burning questions related to global climate change, evolution of ecosystems and species, including our own, the dangers posed by volcanoes and seismically active zones, and the sustainable extraction of heat and raw materials, demands answers that scientists can provide only using insights from scientific drilling.

For most people, drilling into the Earth means laying the foundation for extracting natural resources from under our feet. Recent discussions about new drilling-related technologies such as exploitation of unconventional gas resources, carbon capture and storage and geothermal energy brought deep drilling into the focus of public's attention. With this collection we want to point out that drilling also serves other scientific goals, of high social relevance to face global environmental, climate and economic crises.

Our website – need for update



Our new website – work in progress



[Introduction](#) [Teams](#) [Gallery](#) [Activities](#) [File Share](#)

Q Search...

Geothermal resources for energy transition



Deep Geothermal Resources



Shallow Geothermal resources



Outreach



WIX platform

Goal: to have the website ready by end of January 2025

Any volunteer?

Any motivated students?

Book proposal

Submitted and approved with minor revisions (in process)

Re: Publishing IGCP 636 with the Geological Society & IUGS



Caroline Astley

Daniela Blessent, Danielle Tremeer, + 2

Dear Daniela and Renato,

I hope this finds you well. I am pleased to confirm that we have received two reviews of your proposal, which I attach here appended to the original proposal document.

The feedback is positive and we'd be very pleased to recommend publication to our Books Editorial Committee; this is a timely and important subject and it will make a strong addition to the Special Publications series. There are some recommendations from the reviewers that we'd like you to consider, however. In addition to this feedback, your Society Books Editor, Soumyajit Mukherjee, agrees with the suggestion that authorship should be expanded to include several other countries.

Before proceeding, could we please ask you to read and provide a written response to the reviews, as well as make any revisions to the book proposal?

Unfortunately I am leaving my role at the Society and this is my last week in post. My editorial colleagues David Boyt and Danielle Tremeer are in copy; if you could please share with them then they will ensure your final proposal, including a response to the feedback, is shared with our Books Editorial Committee for a final decision.

Many thanks and wishing you all the best with this project.



Book Proposal – Special Publications

Special Publications are high-quality collections of edited papers that provide a balanced coverage and state-of-the-art treatment of their subject matter.

Title:

Harnessing of geothermal resources: research trends and lessons learned across the globe

Series: Special Publications

Editors: *Names, contact details and affiliations of volume editors, including any general notes on authorship, such as involvement with research groups or specialist groups. We encourage inclusivity and diversity among contributors and editors.*

1. Daniela Blessent
dblessent@udedemedellin.edu.co
Universidad de Medellin (Medellin, Colombia)
2. Renato Somma
renato.somma@ingv.it
Osservatorio Vesuviano - Sez. Napoli, Istituto Nazionale di Geofisica e Vulcanologia (Italy)

Annual and Meeting Report

2023 assessment:

CATEGORY A

Knowledge transfer, gender parity and number of young scientists involved in projects

CATEGORY B

Quality of the scientific research, including methods, objectives, and study areas

CATEGORY C

Communication, international collaboration and fund allocation



Results Summary and Recommendations	
Category	Average Score
A	5
B	4.5
C	4.14
Overall	4.55

Annual and Meeting Report



<p>Section 3.8</p>	<p><i>IGCP projects are expected to store their publications, field data and other results of the project. Evaluators shall comment if there is a clear vision concerning where the data would be stored and who will be the custodian (e.g. internet access to data bases, TV programs, exhibits, public briefings for decision makers).</i></p>	<p>4</p>	<p>Channel, LinkedIn. Geotheroom is hosted in the Online Education platform of the Universidad de Medellin. This project has gained recognition through media since its beginning with the Geotheroom webinars (se the YouTube channel) and with the Comics Video Series launched last year as an outreach tool for geothermal energy, e.g. ThinkGeoEnergy and its allies, Universidad de Medellin website, LinkedIn account. The links are provided at the end of the Publication List document.</p>
<p>Section 8</p>	<p>Financial Statement <i>Funding was spent according to the IGCP criteria and adequately justified.</i></p>	<p>Score 5</p>	<p>Comments: The funding was spent according to IGCP criteria and justified</p>
<p>Section 9</p>	<p>External Funds <i>In addition to the IGCP seed funding, what other sources of funding has the project secured as a result of the IGCP label?</i></p>	<p>Score 5</p>	<p>Comments: Others: City-Scale Geothermal Energy at Powell Center USGS, travel funds for 2 years, 2023 and 2024 (Invited as co-researcher: D. Blessent), about 4,000 USD, New funded project at Universidad de Chile (WEF, Water Energy Food -Chile #ATE220029) (about 600000 USD), SÉNECA FOUNDATION Call for Grants for the Organization of Congresses and Scientific-Technical Meetings of the Séneca Foundation-Science and Technology Agency of the Region of Murcia (Regional Mobility Program, International Collaboration and Knowledge Exchange (2700 USD), MUNICIPALITY OF AZUL CADES 2023 The expenses of Luis Vives' flight have been covered to begin advancing the Application. 8 and start the Application. 9 at the IDAEA (Instituto de Diagnóstico Ambiental y Estudios del Agua) and UPC (Universitat Politècnica de Catalunya), as well as the flight of Dr. Agustín Media to work on new aspects of the App. 5. Exchange (2700 USD)</p>

Annual and Meeting Report



CATEGORY C

Communication, international collaboration and fund allocation

	Project Website	Score	Comments:
Section 1	<i>The project provides a clear plan for the project website, including ongoing maintenance of the site.</i>	4	Web: https://igcp636.com/ (in the label "Activities" all the 2023 activities have been loaded, as well as the publication list) Linkedin profile: UNESCO IGCP Project 636-phase II https://www.linkedin.com/company/unesco-igcp-636/mycompany/?viewAsMember=true
Section 3.3	Activities Undertaken <i>What activities has the project undertaken in terms of society and science outreach?</i> <input type="checkbox"/> This <input type="checkbox"/> This If you have selected 'No', please refrain from assigning a score	3	Comments: Video Comics: they are included in the Geotheroom online school, with more than 300 users, and they are being shared in LinkedIn as well as they are created. Infographics about geothermal energy in different languages (English, French, Arabic, and Spanish) and freely available to be downloaded. The information of all Geotheroom webinars has been publicly shared in LinkedIn and all webinars uploaded to YouTube.
Section 3.6	Episodes <i>If this is the final year of the project, have they submitted a review article of their IGCP project to Episodes?</i>		Comments: NA
Section 3.7	Collaboration <i>The project leaders collaborated in 2023 with other IGCP projects, other UNESCO programmes, other IUGS commissions and other collaborations.</i>	3	Comments: Participation of researcher Hamza Semmari (Algeria) as speaker to the Panel Discussion on Large-Scale Renewable Energy Deployment organized by UNESCO in July 2023.

Annual and Meeting Report



Section 9	External Funds	Score	<p>Comments: Others: City-Scale Geothermal Energy at Powell Center USGS, travel funds for 2 years, 2023 and 2024 (Invited as co-researcher: D. Blessent), about 4,000 USD, New funded project at Universidad de Chile (WEF, Water Energy Food -Chile #ATE220029) (about 600000 USD), SÉNECA FOUNDATION Call for Grants for the Organization of Congresses and Scientific-Technical Meetings of the Séneca Foundation-Science and Technology Agency of the Region of Murcia (Regional Mobility Program, International Collaboration and Knowledge Exchange (2700 USD), MUNICIPALITY OF AZUL CADES 2023 The expenses of Luis Vives' flight have been covered to begin advancing the Application. 8 and start the Application. 9 at the IDAEA (Instituto de Diagnóstico Ambiental y Estudios del Agua) and UPC (Universitat Politècnica de Catalunya), as well as the flight of Dr. Agustín Media to work on new aspects of the App. 5. Exchange (2700 USD)</p>
	<i>In addition to the IGCP seed funding, what other sources of funding has the project secured as a result of the IGCP label?</i>	5	
Section 10	IGCP/IUGS National Committees	Score	<p>Comments: Contacted: Professor Artur Abreu Sá and Mrs. Ana Paula Santos of the Portuguese IGCP, Professor Maria Helena Henriques, who is member of the Portuguese National Committee for the IGCP, was involved at the level of the organisation (hosting our Annual Meeting at University of Coimbra), Italian committee representative Attilio Boriani (Italy); Stephen T. Johnston (Canada), José Ignacio Valenzuela Ríos and Rosa María Mediavilla</p>
	<i>Have the project leaders communicated with the IGCP/IUGS National Committees in the countries where activities were conducted (such as meetings, workshops, capacity building activities, etc.) this year?</i>	5	
Average Score of Category C		4.14	

Next annual meeting

Ideas?

- Try to ask for a final meeting in Calgary for WGC in June 2026?
- A proposal for meeting in 2025 was received from Turkey (by Aysegul Turan), for a meeting at the Izmir Institute of Technology, where they also hosted the European Geothermal PhD Days 2020
- Other volunteers?



Thank you



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Educational, Scientific and
Cultural Organization

