

European Geothermal Ph.D Days 2024

Operational Document

Key dates



EGPD 2024 & Delft Geothermal Challenge

Abstract
submission
open

01-12-23

Abstract
submission
closed

31-01-24

Online start
Delft Geothermal
Challenge

01-03-24

Delft Geothermal
Challenge

02-04-24

EGPD

03-04-24

Field trip

05-04-24

EGPD2024 COMMITTEE

DELFT, THE NETHERLANDS
Website: egpd2024.com
November 16, 2023

Executive Summary

This is the operational document of **the 15th European Geothermal Ph.D Days** (EGPD 2024), produced by the organisation committee of EGPD 2024.

The 15th European Geothermal Ph.D Days will take place in **April 03-05, 2024**, in **Delft, the Netherlands**. This event serves as a platform for young researchers (Ph.D candidates) in the geothermal energy sector across the whole Europe to share their projects, exchange knowledge, and foster collaborations. This operational document outlines the key aspects and strategies for the successful planning and execution of the upcoming EGPD 2024, providing a comprehensive overview of the committee's roles, responsibilities, and objectives, ensuring the event's success and positive impact on the geothermal community.

Organising Committee



Tessel Grubben



Thijs van Esch



Parvin Kolah Kaj



Eli Kamel Targhi



Wen Luo



Josselin Ouf



Stijn Beernink



Entela Kane

Organising Committee of EGPD 2024
Delft, the Netherlands
June, 2023

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I Introduction

1.1 What is European Geothermal Ph.D Days ?

Europe is transitioning towards cleaner energy resources to establish a sustainable, reliable, and affordable energy system. Geothermal is critical for this transition since it provides a flexible baseload renewable source of energy. The challenges of sustainable geothermal operations require an interdisciplinary approach. Combining geoscientific and engineering solutions is essential for innovation at operational sites. Therefore, it is necessary to train the next generation of geothermal experts in order to develop and exploit the geothermal projects of tomorrow.

The European Geothermal Ph.D Days (EGPD) is a three-day conference organised by and for Ph.D students from universities/institutions across the whole Europe. Each year, a different group of Ph.D students from one or several European universities organises this event, providing an efficient way for young specialists to spread and exchange scientific knowledge related to geothermal energy. It emulates youth interested in geothermal energy and provides a framework to make connections in a qualitative way. It provides a dedicated and informal occasion for the Ph.D students to exchange with their peers and to develop their networks. The event is always kindly sponsored by our geothermal industry counterparts, and therefore interaction between Ph.D students and industry partners is also a key component.

1.2 The history of EGPD

The first European Geothermal Ph.D-day (EGPD2010) was held at the Helmholtz Centre Potsdam GFZ - German Research Centre for Geosciences - on February 12, 2010, as an initiative of the European Energy Research Alliance (EERA) joint program in geothermal energy. After 14 versions of the EGPD, now it attracts more than 80 participants each year.

Edition	Date	Host Institution / Host City	Country
1st	Feb. 2010	Helmholtz Centre Potsdam GFZ	Germany
2nd	Mar. 2011	Reykjavík University	Iceland
3rd	Mar. 2012	Pisa	Italy
4th	May. 2013	University of Szeged	Hungary
5th	Apr. 2014	Darmstadt University of Technology	Germany
6th	Feb. 2015	Delft University of Technology	Netherlands
7th	Feb. 2016	University of Bari	Italy
8th	2017	Ruhr-University Bochum	Germany
9th	Mar. 2018	ETH Zurich	Switzerland
10th	Feb. 2019	Helmholtz-Centre Potsdam	Germany
11th	Feb. 2020	Pamukkale University	Turkey
12th	Feb. 2021	CY Cergy Paris Université & Université de Neuchâtel	France & Switzerland
13th	Apr. 2022	RWTH Aachen	Germany
14th	Apr. 2023	Uni. Glasgow, Uni. Strathclyde /& Uni. Edinburgh	UK

1.3 EGPD 2024

After 8 years, a group of Ph.D students working on geothermal energy at TU Delft brings back the EGPD to the Netherlands, a country where geothermal energy has been widely used for direct utilisation. A previous edition (the 6th EGPD) was hosted in Delft in 2015. This time, with both the DAP geothermal well, a on-campus scientific geothermal doublet being drilled, and anticipated on-campus HT-ATES system (PUSH-IT), the TU Delft will be the most interesting host institution for 2024.

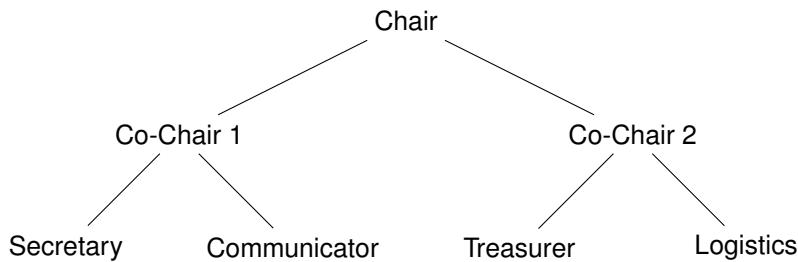
EGPD2024 also merges with Delft Geothermal Challenges (previously known as Geohackthon). EGPD2024 will be held from 03.04-2024-05.04.2024, with an option to attend Delft Geothermal Challenges on 02.04.2024.

For more information, check our website: <https://www.egpd2024.com/>

2 Committee Structure and Roles

The organizing committee consists of 8 enthusiastic PhD students working on geothermal energy at TU Delft, two of whom were also organising committee members of EGPD 2022 (Wen & Josselin). The students are affiliated to the Department of Geoscience & Engineering and/or the Department of Water Management of TU Delft.

Organising EGPD is a challenging task, considering the great events that have been held by our previous counterparts. Therefore, our group makes a clear structure of the committee to achieve the best efficiency and promise a well-prepared event for all participants. The structure of the organising committee is described below:



Chair: Tessel Grubben



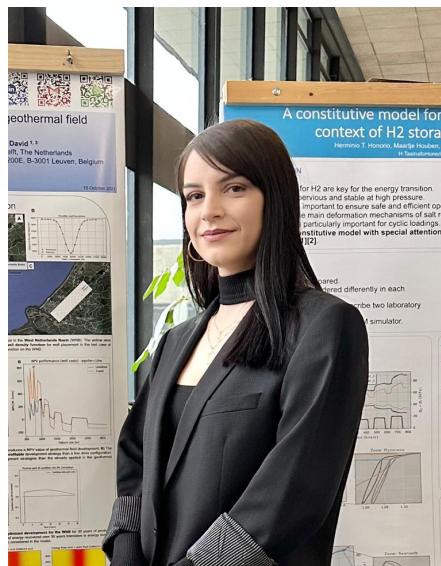
The role of our Chair, Tessel, is to provide leadership and oversight in planning and executing the EGPD 2024. She is expected to oversee the development of the conference schedule and ensure that it aligns with the conference objectives. Also, she has to ensure effective communication and collaboration among committee members to guarantee that tasks are completed on time and within budget.

Co-Chair 1: Josselin Ouf

The role of the Co-Chair 1, Josselin, is to provide support to the Chair and the Secretary and the Communicator wherever needed. He also shares responsibilities in various aspects of conference organization.



Co-Chair 2: Entela Kane



The role of the Co-Chair 2, Entela, is to provide support to the Chair and the Treasurer & the Logistics wherever needed. She also shares responsibilities in various aspects of conference organization.

Secretary: Thijs van Esch

The role of the Secretary, Thijs, is to provide administrative and organizational support to the committee and ensure smooth communication and documentation throughout the conference planning process. His main tasks are documentation and archiving, communication, scheduling and coordination.

Communicator: Wen Luo & Eli Kamel Targhi

The role of the Communicators, Wen & Eli, is to handle external communication and promote the conference to various stakeholders. The Communicator plays a crucial role in disseminating information, raising awareness, and engaging the target audience (including potential sponsors and participants). Thus, Wen & Eli will work together to manage the social accounts (including Twitter and LinkedIn), build the website of EGPD 2024, and promote EGPD 2024 wherever possible.

Logistics: Stijn Beernink



The role of the Logistics, Stijn, is to handle all aspects related to planning, coordination, and execution of logistical operations. Stijn has to ensure that the necessary resources, facilities, and services are available to support the smooth running of the conference, including venue selection and reservation, catering and refreshments, exhibitions and posters, health and safety (regarding the arranged field visit if any), waste management and on-site support.

Treasurer: Parvin Kolah Kaj



The role of the Treasurer, Parvin, is to handle all financial matters related to the event. Parvin is responsible for managing the conference budget, securing sponsorships & fundraising for the EGPD 2024, ensuring financial transparency, and making informed financial decisions. The Chair, Tessel, should also offer help in securing sponsorships and managing budget.

3 Event Planning and Logistics

3.1 EGPD₂₀₂₄ Timeline

SAVE THE DATES! EGPD2024 is scheduled from 3rd April to 5th April, 2024. The submission system will be open from December 1st, 2023 to January 31st, 2024. Get ready to share your interesting researches!

2nd April is optional for those interested in Delft Geothermal Challenge (DGC). Please be aware of that the online training sessions for DGC will start from 1st March, 2024!

We look very much forward to seeing you in Delft! More information will follow soon!

Key dates



EGPD 2024 & Delft Geothermal Challenge

Abstract submission open	Abstract submission closed	Online start Delft Geothermal Challenge	Delft Geothermal Challenge	EGPD	Field trip
01-12-23	31-01-24	01-03-24	02-04-24	03-04-24	05-04-24

3.2 Merge with Delft Geothermal Challenges

Delft Geothermal Challenge, previously known as GeoHackathon, is designed to provide an unparalleled educational experience while fostering the dissemination of knowledge in the realm of Data Science applications with a focus on reservoir simulation to support Geothermal Energy Developments and the Energy Transition. It is meticulously organized by a dedicated team from TU Delft staffs Alexandros Daniilidis, Dennis Voskov etc. Their collective ambition is to drive the Energy Transition forward through data-driven and sustainable practices. More information will follow soon! Join us in shaping the future of sustainable energy!

Please note that attendance at the Delft Geothermal Challenge is NOT mandatory for the EGPDers.

Delft Geothermal Challenge

- Participants develop a subsurface utilization plan week by week
- The goal is to utilize subsurface for energy transition of the province satisfying the energy demand

3.3 Event Format and Schedule

The European Geothermal Ph.D Days is a three day event. The first two days will comprise a mixture of keynote speakers, Ph.D presentations, pitches and poster sessions. For the third day, a site visit is scheduled. Tab.1 shows the detailed schedules that could be updated.

Table 1: Schedule of EGPD2024 (being updated)

Dates	02.04.2024	03.04.2024	04.04.2024	05.04.2024
Event	DGC	EGPD	EGPD	EGPD
09:00-10:00			Pitches	
10:00-11:00	Delft Geothermal Challenges	Keynotes	+ Posters	Filed Trip
11:00-12:00		Lunch	Lunch	Lunch
12:00-13:00				
13:00-14:00			Pitches	
14:00-15:00	Delft Geothermal Challenges	Presentations	+ Posters	Leaving
15:00-16:00				
16:00-17:00				
Evening	Icebreaker		Conference Dinner	

3.4 Venue of the Event

we are looking for a location on the campus. Once determined, it will be announced via our social media channels and on our website.



4 Sponsor Opportunities

As EGPD is an event organised by and for Ph.D students, it cannot be successful without the kind sponsorships from our industry counterparts. **We are now looking for sponsors.** To this end, we summary the benefits that a sponsor can have via funding EGPD and the potential sponsorship opportunities below.

Interested ?

If you are interested in sponsoring EGPD 2024, we are looking forward to receiving your message at EGPD2024@tudelft.nl.

4.1 Sponsor Benefits and Opportunities

Sponsoring the European Geothermal Ph.D Days offers valuable benefits for companies looking to enhance their brand visibility and network within the next-generation leading geothermal experts. The event provides tailored marketing exposure, including logo placement and presenting a talk. Sponsors also have the chance to engage with cutting-edge research in different areas related to geothermal energy, such as subsurface modelling, geophysical inversion, economical analysis and societal science, and connect with next-generation leading experts in geothermal energy. Post-event exposure ensures lasting visibility through publication and access to event materials. Below shows the detailed sponsorship benefits and opportunities.

Table 2: Sponsor benefits and opportunities

	Diamond €2500	Gold €1250	Silver €1000	Ad. Exhibition €700
Promotion logo on screen during break	✓	✓	✓	
Acknowledgment during opening and closing	✓	✓		
Acknowledgement during conference dinner	✓	✓	✓	✓
Logo placement on our website linked to company profile	✓	✓		
Keynote lecture fearing your company	✓			
Full-page advertisement in the conference brochure		✓		
Acknowledgement of your company on Linkedin	✓	✓	✓	✓
Half-page advertisement in the conference brochure	✓	✓	✓	
A promotional stand to showcase products/services	included	+ €250	+€250	+€250

Interested ?

If you are interested in becoming a sponsor listed above, we are looking forward to receiving your messages at EGPD2024@tudelft.nl.

4.2 Budget

Funding from sponsors will be used for offering food and drinks, renting venue, arranging social event/field trip, and providing support to few attendees, etc. Details can be found in Tab.3.

Table 3: Budget Estimation

Expenses	Estimated Cost
60-80 participants expected	
Catering	
Lunches	3000 €
Coffee & Snacks	1500 €
Social Event	3000 €
Logistics	
Conference Activity	1500 €
Printing	1000 €
Venue	
Renting Venue	1500 €
Funding for Students	
Travelling Funding	500 €/per person, 2-5 ppl
Prize	250 €/ per person, 3ppl

5 Sponsors for EGPD2024

Great thanks for the following kind sponsors, without whom the EGPD2024 cannot happen.

5.1 Diamond Sponsors

5.1.1 Ennatuurlijk Aardwarmte



Ennatuurlijk Aardwarmte: Down to Earth

Ennatuurlijk Aardwarmte is a modern private utility company focusing on releasing the unlimited energy of the earth with zero impact. Always looking for the most sustainable and efficient way to supply energy to companies that need a lot of energy, such as large greenhouses and data centers. **Ennatuurlijk Aardwarmte** is located in North Holland and active in the nearby areas Agriport in Middenmeer and Grootslag in Andijk.

Ennatuurlijk Aardwarmte has a clear vision to make the energy supply for its customers step by step more sustainable. At Agriport, **Ennatuurlijk Aardwarmte** already has three doublets with which geothermal heat is produced. By realizing a 4th doublet, even more sustainable heat can be produced. This geothermal energy is used to heat the greenhouses in a sustainable way and saves natural gas for the production of tomatoes and peppers.

Check out more information about **Ennatuurlijk Aardwarmte** on their website: (<https://ennatuurlijk.nl/>)

5.2 Gold Sponsors

5.3 Silver Sponsors

5.3.1 Energi Simulation



Energi Simulation: *Creating a more sustainable energy future through simulation research*

Energi Simulation is a not-for-profit company registered in the province of Alberta, Canada. Founded in 1978, Energi Simulation (formerly Foundation CMG) promotes and financially supports research and graduate students through research grants at universities. Their mandate is to invest in leading edge research and innovation in energy resource modelling.

Energi Simulation partners with universities, governments, and industry sponsors to drive unique multi-year support of student education and world leading researchers at universities, in Europe, North America, South America, and Asia-Pacific region.

Check out more information about **Energi Simulation** on their website: <https://lnkd.in/e9kAyX5>

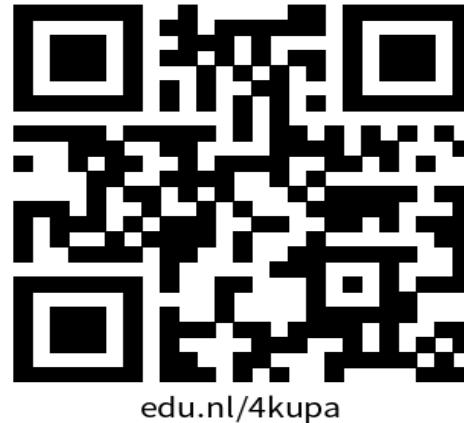
6 Promotion and Outreach

6.1 Social Media Campaigns

It is essential to promote and create buzz around the EGPD 2024. These campaigns aim to generate awareness, engage with the target audience (including potential sponsors and participants), drive registration, and facilitate networking opportunities.

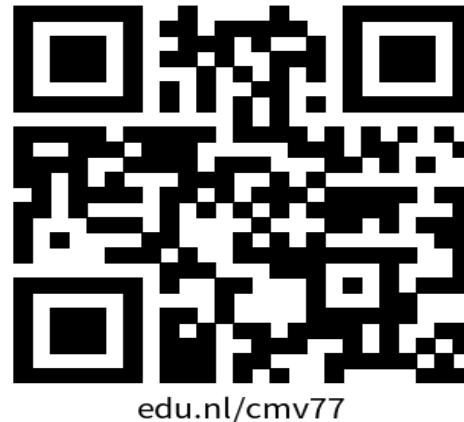
We have created two official social media accounts, i.e. Twitter and LinkedIn Page, to promote and advertise our event. Please feel free to scan the QR codes below to follow us for future communications.

EGPD2024_Delft
@EGPD2024_Delft
Official account of European Geothermal PhD Days 2024, Delft!
Joined June 2023



Twitter Account - scan to follow

EGPD2024
11 followers
3d · Edited · 0 posts
The 15th European Geothermal Ph.D Days, 2024, will happen in Delft, the Netherlands. This is the OFFICIAL LinkedIn Page of EGPD2024. More information will be released soon. Follow this page for future communication! #Geo ...see more
Wed, Apr 3, 2024, 9:00 AM - Fri, Apr 5, 2024, 4:00 PM CEST
the 15th European Geothermal Ph.D Days
Delft, NL



LinkedIn Page - scan to follow

6.2 Website

Our communicator Eli Kamel Targhi is managing the EGPD2024 website. Please find more news on our website at: <https://www.egpd2024.com/>



Thanks for David Naranjo, one of the committee members who built the original repository of EGPD 2022 website, and for EGPD 2023 organising committee, we inherit the code to build EGPD 2024 website.

6.3 Communication Channels for Participants

The communication channel is a WhatsApp group, in which all participants can communicate with the whole group in real time during the EGPD 2024. In this way, we can keep being informed in time. To join the WhatsApp group, please scan the following QR code:



6.4 Expected Deliverable

This operational document, together with an abstract booklet (after the event) will be published online.