

Geothermal-DHC webinar

“Petrothermal energy research in a global context”

Invitation

Date and location of the workshop: 22nd of March 2021, 5:00 pm – 7:30 pm (CET, Vienna – Berlin-Paris), digital event

About the workshop

Petrothermal energy concepts like *Hot Dry Rock* or *Enhanced Geothermal Systems* have already been introduced in the 1970s in the United States and since then tested at some research and demonstration sites across the globe. Although the transition from a testing and demonstration towards a market implementation stage has not been yet achieved, petrothermal energy has the potential to become a key technology for the production of electricity and the supply of heating networks. The main reason for that is given by the fact, that this technology has a lower dependency on local hydrogeological conditions than the conventional use of geothermal energy.

This webinar aims to inform about developments in petrothermal energy research across the globe and to discuss future opportunities as well as current barriers to be addressed by research.

Program

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| 5pm* | Opening of the web room, digital coffee |
| 5:00 | Gregor Goetzl (Geological Survey of Austria, Austria), chair CA18219: Opening of the webinar and introduction statement <i>“The possible strategic role of petrothermal energy for transforming fossil fuel supplied district heating networks in Europe”</i> |
| 5:10 | Keynote talk by Joseph Moore (University of Utah, USA): The Utah Frontier Observatory for Research in Geothermal Energy (FORGE) – an international laboratory for EGS research |
| 5:40 | Keynote talk by Albert Genter (ES Géothermie, France): From electricity generation to heat production: The case studies from Soultz-sous-Forêts and Rittershoffen geothermal plants, France |
| 6:10 | Emilio L. Pueyo Moyer (Instituto Geológico y Minero de España, Spain): Geothermal exploration challenges beyond hydrocarbon regions. |
| 6:30 | Antonín Tým: Deep EGS project in Czechia - status quo and future prospects |
| 6:50 | Joint discussion on future assets and further research need for a better integration of petrothermal energy into the energy sector |
| 7:30 pm | End of the workshop |

*all times in CET (Vienna – Berlin – Paris)

How to register to the webinar

Participating at the webinar is free of charge. For registering please contact CA18219@geologie.ac.at. Registering will close on the 22nd of March 2021 at 1 pm (CET, Vienna time).

About Geothermal-DHC

The COST Action CA18219 Geothermal-DHC addresses the inclusion of geothermal energy in decarbonized heating and cooling grids across Europe. The network follows a technologically bottom-up approach involving the whole spectrum of geothermal and envisaging the whole process chain from planning to operation and monitoring. Our network addresses both, refitted existing heating and cooling networks as well as new grids. Geothermal may act as a heating source, sink or storage and may be combined with other renewables or waste heat in multivalent heating and cooling grids. Geothermal-DHC aims to demonstrate that geothermal energy has the potential to significantly **enhance the share of renewable energy sources in heating and cooling grids to 30% in 2030 and 50% in 2050** in Europe.

Geothermal-DHC connects researchers from various disciplines (e.g. geosciences, energy conversion and social science) with stakeholders (e.g. energy suppliers, municipalities and energy planners), who are interested to lower the CO₂ footprint of heating and cooling in their region. Currently, the network is covering participants from more than 30 European countries as well as observers from outside of Europe.

For more information on Geothermal-DHC please visit www.geothermal-dhc.eu.