

EGU 2020 - Sharing Geosciences Online

ERE2.6/EMRP1.15/SM6.10

Exploration, utilization and monitoring of conventional and unconventional geothermal resources

Conveners: Maren Brehme, Marco Calò, Anne Pluymakers, Ivan Granados Chavarria, Eugenio Trumpy

	chat opening and time to watch the uploaded presentations before the chat from 8:30-9:30 AM, Vienna time
	chat session from 9:30-10:30 AM, Vienna time
	Characterization
1	Lithochemical Characterization of Akkoy and Edremit Geothermal Fields as Prospective CO ₂ Storage Sites: A Preliminary Study Highlight Sanem Elidemir and Nilgün Güleç
2	Revisiting Toba Caldera: an insight from regional magnetotelluric data Lukman Sutrisno, Fred Beekman, Yunus Daud, and Jan Diederik Van Wees
3	Exploring the Deep Geothermal Energy Potential at Weisweiler, Germany: 3D-Modelling of Subsurface Mid-Palaeozoic Carbonate Reservoir Rocks Tobias Fritschle, Martin Salamon, Silke Bißmann, Martin Arndt, and Thomas Oswald
4	Facies, porosity and permeability prediction and 3-D geological static model in the Middle Jurassic geothermal reservoir of the Paris Basin by integration of well logs and geostatistical modeling Hadrien Thomas, Benjamin Brigaud, Hermann Zeyen, Thomas Blaise, Simon Andrieu, Maxime Catinat, Mélanie Davaux, and Miklos Antics
5	Geothermal resources characterization of two areas in southern Tuscany Eugenio Trumpy, Gianluca Gola, Alessandro Santilano, Adele Manzella, Matteo Brambilla, Roberto Calabrò, Marco Giussani, Roberto Monti Colombani, Salvatore Palumbo, Vincenzo Savoca, and Emery Vajda
6	The role of fractures in flow partitioning during minewater geothermal energy extraction Mike Chandler, Julian Meckneburgh, and Ernest Rutter
7	Integration of geophysical methods and fractures study for the Vallès geothermal system characterization (NE Spain) Gemma Mitjanas, Juanjo Ledo, Pilar Queralt, Gemma Alías, Perla Piña, Alex Marcuello, and Anna Martí
	chat session from 10:30-11:30 AM, Vienna time
	Exploration
1	Slates: a potential rock type to extract geothermal energy from the underground? Johannes Herrmann, Erik Rybacki, Wenxia Wang, Harald Milsch, Bianca Wagner, and Bernd Leiss
2	Hemispherical underground borehole heat exchanger field as a source of geothermal energy Kimmo Korhonen, Jaakko Hietava, and Lasse Ahonen
3	A mine as a source of geothermal energy - case study from Pyhäsalmi, Finland Kaiu Piipponen, Jaakko Hietava, Nina Leppäharju, Annu Martinkauppi, Kimmo Korhonen, and Lasse Ahonen
4	Investigation of the geological, technical and economical obstacles for large-scale utilization of geothermal energy from Danish sandstone reservoirs Mette Olivarius, Niels Balling, Jesper P. M. Baunsgaard, Esben Dalgaard, Hanne Dahl Holmslykke, Anders Mathiesen, Troels Mathiesen, Henrik Vosgerau, Rikke Weibel, and Lars Henrik Nielsen
5	3D basin-scale groundwater flow modeling as a tool for geothermal prospection of the Geneva Basin, Switzerland-France Marion Alcanie, Marine Collignon, Olav Møyner, and Matteo Lupi
6	The geothermal potential of sedimentary basins – case study for Berlin, Germany Judith Bott, Maximilian Frick, Nora Koltzer, Mauro Cacace, Björn Lewerenz, Michael Schneider, and Magdalena Scheck-Wenderoth
7	Unmanned aerial system imaging and refined geologic modelling of the Waiwera geothermal Reservoir Melissa Präg, Ivy Becker, Thomas R. Walter, and Michael Kühn
8	Local earthquake tomography at the Los Hornos geothermal field, Mexico Tania Toledo, Philippe Jousset, Emmanuel Gaucher, Hansruedi Maurer, Charlotte Krawczyzk, Marco Calò, and Angel Figueroa
9	The Heat beneath Our Feet Jeroen van Hunen, Charlotte Adams, Jon Gluyas, Jonty de la Harpe, Karina Hastie, and Tom Norman
	chat session from 11:30-12:30 AM, Vienna time
	Monitoring
1	Assessing the Carbon Intensity of Low-Enthalpy Deep Geothermal Heat Highlight Alistair McCay, Jen Roberts, and Michael Feliks
2	How well do we know our models? Denise Degen, Karen Veroy, Mauro Cacace, Magdalena Scheck-Wenderoth, and Florian Wellmann
3	Monitoring deep fractured reservoirs with ambient noise correlation: importance of acousto-elastic effects Jérôme Azzola, Jean Schmittbuhl, Dimitri Zigone, Olivier Lengliné, and Frédéric Masso
4	Geothermal energy in Pyhäsalmi mine, Finland: performance evaluation of heat collector types Annu Martinkauppi, Kaiu Piipponen, and Lasse Ahonen
5	Interactions between a calcium scaling inhibitor, geothermal fluids, and microorganisms – Results of in situ monitoring in the molasse basin and laboratory experiments Christoph Otten, Beate Schulz, Sebastian Teitz, Florian Eichinger, Andrea Seibt, Dietmar Kuhn, and Hilke Würdemann
6	Fluid-driven anthropogenic micro-seismic activity while drilling towards supercritical conditions in the Larderello-Travale geothermal field Domenico Montanari, Riccardo Minetto, Thomas Plänes, Marco Bonini, Chiara Del Ventisette, Veronica Antunes, and Matteo Lupi
7	A lightweight thermal modelling tool for physics-based continental heat flow interpolation Alberto Pastorutti and Carla Braitenberg
8	Feasibility, Design and authorization of a zero-emission Geothermal Power Plant in Italy; Case Study: "Montenero" Project Paolo Basile, Roberto Brogi, Favaro Lorenzo, and Tiziana Mazzoni
9	Geothermal energy in Pyhäsalmi mine, Finland: performance evaluation of heat collector types Annu Martinkauppi, Kaiu Piipponen, and Lasse Ahonen