

OUTPUT LIST

SELECTED PEER-REVIEWED PAPERS

- Brehme, M.**, Giese, R., Dokuz, U. E., Bulut, F. (2021) Fluid pathways identified beneath Narlı Lake (Central Anatolia) show the geothermal potential of former volcanoes, *Nature-Scientific Reports* 11, 87743
- Brehme, M.**, Giese, R., Suherlina, L., Kamah, Y. (2019) Geothermal sweetspots identified in a volcanic lake integrating bathymetry and fluid chemistry, *Nature-Scientific Reports* 9, 16153
- Brehme, M.**, Nowak, K., Banks, D., Petrauskas, S., Valickas, R., Bauer, K., Burnside, N., Boyce, A. (2019) A Review of the Hydrochemistry of a Deep Sedimentary Aquifer and its Consequences for Geothermal Operation – Klaipeda, Lithuania, *Geofluids*, 2019, ID 4363592, 20 p
- Brehme, M.**, Regenspurg, S., Leary, P., Bulut, F., Milsch, H., Petrauskas, S., Valickas, R., Blöcher, G. (2018) Injection-triggered occlusion of flow pathways in geothermal operations, *Geofluids*, 2018, ID 4694829, 14 p
- Brehme, M.**, Bauer, K., Nukman, M., Regenspurg, S., (2017) Self-organizing maps in geothermal exploration – A new approach for understanding geochemical processes and fluid evolution, *Journal of Volcanology and Geothermal Research*, 336, 19-32
- Brehme, M.**, Blöcher, M.G., Cacace, M., Kamah, Y., Zimmermann, G., Sauter, M., (2016) Permeability distribution in the Lahendong geothermal field: A blind fault captured by thermal-hydraulic simulation, *Environmental Earth Sciences*, 75:1088, 1-11
- Brehme, M.**, Deon, F., Haase, C., Wiegand, B., Kamah, Y., Sauter, M., Regenspurg, S. (2016) Fault controlled geochemical properties in Lahendong geothermal reservoir Indonesia, *Grundwasser*, 21, 1, 29 - 41.
- Deon, F., Förster, H.-J., **Brehme, M.**, Wiegand, B., Scheytt, T., Moeck, I., Jaya, M.S., Putriatni, D. J. (2015) Geochemical/hydrochemical evaluation of the geothermal potential of the Lamongan volcanic field (Eastern Java, Indonesia), *Geothermal Energy*, 3:20, 1-21

SELECTED CONFERENCE PROCEEDINGS

- Brehme, M.**, Marko, A., Nowak, K., Istvan, S., Blöcher, G., Huenges, E. Injection-Triggered Occlusion of Flow Pathways and its Remediation in Mezöbereny-Hungary, *European Geothermal Congress 2019*, The Hague
- Brehme, M.**, Giese, R., Suherlina, L., Kamah, Y. Bathymetry and Geochemical Profiles as New Mapping Tools for Fault Permeability, *European Geothermal Congress 2019*, The Hague
- Huenges, E., Ellis, J., Hofmann, H., Zimmermann, G., **Brehme, M.**, Farkas, M. P., Nowak, K., Westaway, R., Burnside, N., Min, K., Yoon, J., Genter, A., Guinot, F., Marti, M. Concepts of soft stimulation treatments in geothermal reservoirs, *42nd GRC Annual Meeting & Expo 2018* (Reno, Nevada, USA)
- Brehme, M.**, Leary, P., Milsch, H., Regenspurg, S., Petrauskas, S., Valickas, R., Kamah, Y., Blöcher, G. Natural and Altered Physical Flow Structures in the Earth's Crust with applications for geothermal energy, *43rd Stanford Geothermal Workshop 2018*
- Brehme, M.**, Blöcher, G., Regenspurg, S., Milsch, H., Petrauskas, S., Valickas, R., Wolfgramm, M., Huenges, E. Approach to develop a soft stimulation concept to overcome formation damage – A case study at Klaipeda, Lithuania, *42nd Stanford Geothermal Workshop 2017*

Brehme, M., Blöcher, G., Cacace, M., Deon, F., Moeck, I., Wiegand, B., Kamah, Y., Regenspurg, S., Zimmermann, G., Sauter, M. and Huenges, E. Characterizing permeability structures in geothermal reservoirs – A case study in Lahendong, **41st Stanford Geothermal Workshop 2016**

Brehme, M., Wiegand, B., Deon, F., Blöcher, G., Cacace, M., Haase, C., Erbaş, K., Kamah, Y., Regenspurg, S., Moeck, I., Zimmermann, G., Sauter, M. Structurally Controlled Fluid Flow in a High-Enthalpy Geothermal System – Case Study Lahendong, Sulawesi (Indonesia), **Proceedings World Geothermal Congress 2015**, Melbourne, Australia

Wiegand, B., **Brehme, M.**, Kamah, Y., Sauter, M. Distribution of Sr and Ca Isotopes in Fluids of Lahendong Geothermal Field, **Proceedings World Geothermal Congress 2015**, Melbourne, Australia

Dokuz, U.E., Çelik, M., Kadioğlu, Y.K., **Brehme, M.**, Engin, H. Geothermal Evaluation of the Bayramhacılı and Tekgöz-Çiftgöz area, Central Anatolia, Turkey by a New Conceptual Reservoir Model, **Proceedings World Geothermal Congress 2015**, Melbourne, Australia

ORAL CONFERENCE CONTRIBUTIONS

Brehme, M., Saar, M.O., Slob, E., Bombarda, P., Maurer, H., Wellmann, F., Vardon, P.J., Bruhn, D., and the Easygo Team (2021) EASYGO - Efficiency and Safety in Geothermal Operations – A new Innovative Training Network, EGU21-15437, **European Geosciences Union General Assembly 2021**, Vienna, Austria

Cacace, M., Blöcher, G., Jacquy, A., Zang, A., Heidbach, O., Hofmann, H., Kluge, C., **Brehme, M.**, Reinsch, T., Zimmermann, G. (2018) Evaluating the potential of induced seismicity during reservoir operations in EGS, Vol.20, EGU2018-8887, **European Geosciences Union General Assembly 2018**, Vienna, Austria

Schäfer, F., Jousset, P., Hinderer, J., **Brehme, M.**, Erbas, K., Mikolaj, M., Portier, N., Reich, M., Rosat, S., Schröder, S., Warburton, R., Güntner, A. (2018) Continuous high resolution gravity measurements at a geothermal field in Northern Iceland, Vol.20, EGU2018-7855, **European Geosciences Union General Assembly 2018**, Vienna, Austria

Brehme, M., Blöcher, G., Regenspurg, S., Leary, P., Bulut, F., Milsch, H., Sanden, A., Veeger, F., Siklósi, I., Valickas, R., Petrauskas, S. (2018) Physical, chemical and biological processes controlling groundwater flow in geothermal reservoirs, **26. Meeting of the German Association for Hydrogeology 2018**, Bochum

Brehme, M., Dokuz, U.E., Scheytt, T., Çelik, M., (2017) Hydrogeological Characteristics of Dörtüyl (Hatay) Coastal Aquifer, **70th Geological Congress of Turkey**, Ankara

Brehme, M., Blöcher, G., Regenspurg, S., Milsch, H., Petrauskas, S., Valickas, R., Sliupa, S., Francke, H., Birner, J., Wolfgramm, M. & Huenges, E., (2016) Injection problems at the Klaipeda site – Process assessment for developing soft stimulation treatments, “**Der Geothermiekongress DGK 2016**”, Essen

Blöcher, G., **Brehme, M.**, Valickas, R., Petrauskas, S., Huenges, E., (2016) Solutions for low-productive geothermal reservoirs, **Praxisforum Geothermie**, München

OUTREACH ACTIVITIES

‘Communicating wells’, Talk at the FameLab Germany Competition, Science Slam, 2012

‘Geothermal-a contribution to the energy transition’, Talk at the Urania Potsdam, 2017

Interview with ‘Women in Geothermal’, Section Turkey (WING), 2020

‘Explore geothermal resources beneath volcanic lakes using new methods’, Article at Earth System Knowledge Platform: Volcanism and Society, 2020

3 ½ Fragen an..., Interview in ‘Die Zeit’, Germany's second largest weekly newspaper, 2020