

PUBLICATIONS

Peer-review Journals

- Beck, M., Bayer, P., de Paly, M., Hecht-Méndez, J. and A. Zell (2013): Geometric arrangement and operation mode adjustment in low-enthalpy geothermal borehole fields for heating, *Energy*, 49, 434–443.
- Hecht-Méndez, J., de Paly, M., Beck, M., P. Bayer (2013): Optimization of energy extraction for vertical closed-loop geothermal systems considering groundwater flow, *Energy Conversion and Management*, 66, 1–10.
- de Paly, M., Hecht-Méndez, J., Beck, M., Blum, P., Zell, A. and P. Bayer (2012): Optimization of energy extraction for closed shallow geothermal systems using linear programming, *Geothermics*, 43, 57–65.
- Hecht Méndez, J., Fuenmayor Siciliano, M.G., Bello Rujana, L. and N., Molina Giraldo. 2010. Uso de la energía geotérmica somera – Un reto alcanzable para los países latinoamericanos, *Revista Latino-Americana de Hidrogeología*, 8, 48–57.
- Hecht-Mendez, J., Molina-Giraldo, N., Blum P. and P. Bayer (2010): Evaluating the solute transport model MT3DMS for heat transport simulation of closed shallow geothermal systems. *Ground Water*, 48, 741–756.

Oral and Poster Presentations

- Hecht-Méndez, J., Molina-Giraldo, N., Bello-Rujana, L., Bayer, P. and P. Blum. 2011. Comparison of numerical and analytical modelling concepts for simulation of shallow open geothermal system. European Geosciences Union General Assembly, Vienna, 19-24. April 2011, *Geophysical Research Abstracts*, Vol. 13, EGU2011-2173.
- Blum, P., Wagner, V., Hecht-Méndez, J. and P. Bayer. 2011. Modellierung von Kälte- und Wärmefahnen in der oberflächennahen Geothermie. VEGAS-Kolloquium 2011, Flache Geothermie - Perspektiven und Risiken. Jürgen Braun & Hans-Peter Koschitzky (Hrsg.), Institut für Wasserbau, Universität Stuttgart, Heft. 205.
- Hecht Méndez, J., Fuenmayor Siciliano, M.G., Bello Rujana, L. and N., Molina Giraldo. 2010. Uso de la energía geotérmica somera – Un reto alcanzable para los países latinoamericanos. In: X Congreso ALHSUD de Aguas subterráneas, Caracas, Venezuela, 18 – 22 Octubre, 8 pp.
- Beck, M., Hecht-Méndez, J., de Paly, M., Blum, P., Zell, A. and P., Bayer. 2010. Optimization of the energy extraction of a shallow geothermal system. In: 2010 IEEE World Congress on Computational Intelligence, Barcelona, Spain, 18-23 Juli, 7 pp.
- Hecht-Méndez, J., Molina-Giraldo, N., Bayer, P. and P. Blum. 2010. Use of MT3DMS for Heat Transport Simulation of Shallow Geothermal Systems. In: Proceedings of the World Geothermal Congress 2010, Bali, Indonesia, 25 – 30 April, 8 pp.
- Teilnahme am 16. Innovationstag Mittelstand des BMWi. 2009. Poster Präsentation im Rahmen des Projektes PROINNO 2. Vorstellung der Projekt Ergebnisse in Zusammenarbeit mit der Firma Systherma GmbH. Berlin, 01. Juli 2009.
- Hecht-Méndez, J., Molina-Giraldo, N., Blum, P. and P. Bayer. 2009. Heat transport modelling using the solute transport model MT3DMS. European Geosciences Union General Assembly, Vienna, 19-24. April 2009, *Geophysical Research Abstracts*, Vol. 11, EGU2009-12030.