

Thomas Rinder
Curriculum Vitae

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Education

11/2007 M.Sc., Environmental Sciences, Karl-Franzens-University, Graz.
Diploma Thesis: "Calcite precipitation in tunnel drainage systems – Mechanisms and risk assessment" on the Institute of Applied Geosciences, Graz University of Technology
Advisors: Martin Dietzel, Stephan Köhler

Professional experience

3/2008 – present Project Assistant, Institute of Applied Geosciences, Graz University of Technology; application of proxies for the reconstruction of the formation conditions of carbonates in porous media and alkaline tunnel drainage

2005 –2007 Undergraduate Research Assistant, Institute of Applied Geosciences; analysis of solids and solutions via Ion Chromatography and data modelling with the geochemical computer program PHREEQC

9/2004 & 7/2005 Internship at Salzburg AG; laboratory for chemical analysis of drinking and process water

Teaching experience

2010/11 Graz University of Technology; (GEO.883) Experimental laboratory internship; (GEO.731) Water analysis and characterization

Publications, Conference Proceedings and Contributions

Mittermayr, F.; Rinder, T.; Klammer, D.; Leis, A.; Dietzel, M.(2012):
A carbon isotope study of thaumasite and calcite sinter formation in underground constructions. International Congress on Durability of Concrete, 1-14, In Press

Turpin, M., Rinder, T., Dietzel, M., Bahamonde, J.R., Immenhauser, A., (2011): Granulometry and geochemistry of micritic carbonates along a Carboniferous and a Jurassic platform to basin transects. Geophysical Research Abstracts, Vol. 13, EGU

Dietzel, M., Harer, G., Klammer, D., Köhler, S. J., Leis, A., Mittermayr, F., Niedermayr, A., Reichl, P., Rinder, T., (2010): Karbonatabscheidungen in Drainagesystemen von Tunnelbauten. Beiträge zur Hydrogeologie 57, p. 143 – 153

Rinder, T., Dietzel, M., Spatzenegger, J., Abdalla, R., (2010): Calcium carbonate cementation of unconsolidated materials - An experimental approach. EGU 2010, p. 12395 - 12395

Oswald, S., Birk, S., Winkler, G., Benischke, R., Leis, A., Dietzel, M., Stadler, H., Klock, E., Köhler, S. J., Rinder, T., (2010): Künstliche und natürliche Tracer in einem Karsteinzugsgebiet mit allochthoner Neubildung (Lurbach, Österreich). Grundwasser für die Zukunft - Tagung der Fachsektion Hydrogeologie, p. 130 – 130

Abdalla, R., Rinder, T., Dietzel, M., Leis, A., (2010): Seawater Intrusion and groundwater quality of the coastal area in Tripoli region, Libya. EGU 2010, p. 11911 - 11911

Dietzel, M., Rinder, T., Leis, A., Reichl, P., Sellner, P. J., Draschitz, C., Plank, G., Klammer, D., Schöfer, H., (2008): Koralm Tunnel as a Case Study for Sinter Formation in Drainage Systems - Precipitation Mechanisms and Retaliatory Action. Geomechanik und Tunnelbau 4, p. 271 - 278

Rinder, T., Dietzel, M., Leis, A., Köhler, S. J., Klammer, D., Reichel, P., (2006): Calcite sinter formation in alkaline drainage solutions of tunnel buildings - chemical evolution and distribution of $^{13}\text{C}/^{12}\text{C}$ and $^{18}\text{O}/^{16}\text{O}$ isotopes. EGU, European Geosciences Union General Assembly, p. 294