

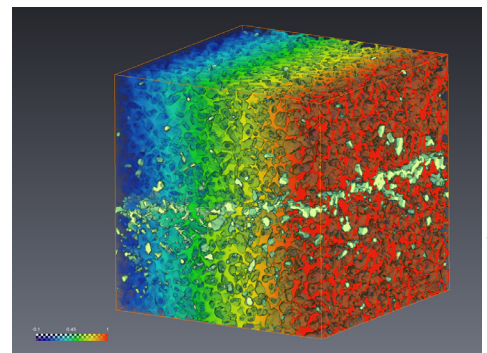
Geowissenschaftliches Kolloquium

Reactive transport in deep geological formations: laboratory versus field studies

Donnerstag, 14. Juli 2016 - 16.15 Uhr

Thorsten Schäfer
(Karlsruher Institut für Technologie)

Deep geological formations are considered as suitable host rocks for the final storage of heat generating high-level and long-lived radioactive waste. This includes argillaceous sediments and crystalline formations. The presentation will show on selected examples how the interplay between a laboratory program using state-of-the-art analytical methods and the field scale experiments help to understand transport and retention processes in heterogeneous natural formations. Examples of field experiments conducted in underground research laboratories in Switzerland or Sweden will show the developments made in recent years within international consortia.



Prof. Dr. Thorsten Schäfer works on sedimentary and crystalline systems with the focus on coupled hydro-chemical transport processes and the fate of anions, cations and nanoparticles in these reservoir systems. Thorsten has a doctoral degree in Geosciences from the Univ. Mainz, was a research scientist 2000-2001 at SUNY Stony Brook and BNL (USA), received his habilitation 2008 from the FU Berlin in hydrogeology, and is now deputy director of INE and full professor for Environmental Geology at KIT.

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