

Geowissenschaftliches Kolloquium

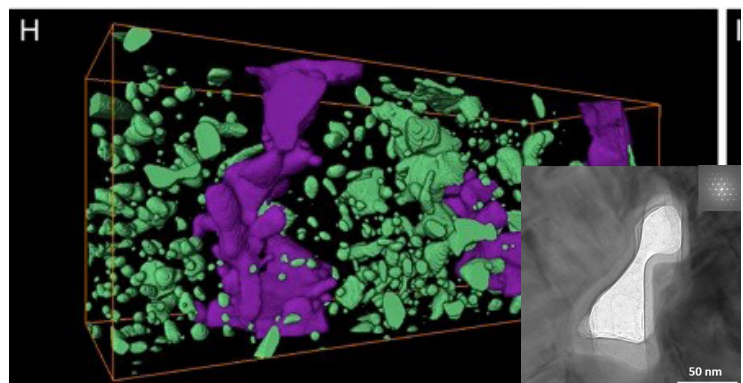
Small things matter: nanoscale control of geological processes

Donnerstag, 27. Oktober 2016 - 16.15 Uhr

Oliver Plümper

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The physical and chemical properties of the Earth depend on the atomic to nanoscale structure of their constituent rocks, minerals and fluids. During my talk I will focus on two examples to show how nanoscale processes control large-scale geological processes. The first example focuses on nanoscale transport processes during metamorphic fluid flow, the second one on the deformation of nanogranular media and their impact on crustal fault zone stability and earthquake nucleation.



Dr. Oliver Plümper has a B.Sc. and M.Sc degree from the University of Münster and a Ph.D. from the University of Oslo, Norway. He is currently working as an assistant professor at Utrecht University, the Netherlands. Oliver has been working on problems evolving around fluid-rock/mineral interaction and rock deformation. His current research focuses on the electrochemistry of fluid-mineral interfaces and nanoscale deformation processes.

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