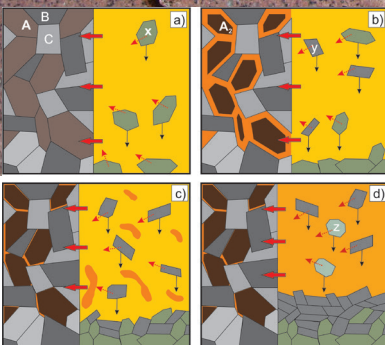


Geowissenschaftliches Kolloquium

From simple mixing to Magma Chamber Simulator - modeling assimilation of magmas then and now

Donnerstag, 2. Mai 2019 - 16.15 Uhr

Jussi Heinonen
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Because of the high temperatures involved, magmas readily interact with their surroundings, and may assimilate wallrock materials. The earliest such geochemical models used simple mixing equations and suggested an important role for assimilation in igneous systems.

Thermodynamic considerations have shown, however, that bulk assimilation of wallrock is considerably limited by the enthalpy content of the magma. In this presentation, I pursue to define assimilation in a pure conceptual sense and review geochemical and thermodynamical models used to computationally replicate it.



In his PhD and postdoc studies at the University of Helsinki in 2006–2015, **Jussi Heinonen** has focused on deciphering the sources and magmatic differentiation of Jurassic continental flood basalts in southern Africa and Antarctica (Karoo province). As an Academy of Finland Research Fellow, his focus is shifting towards thermodynamic and geochemical modeling of igneous systems on a broader scope.

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