

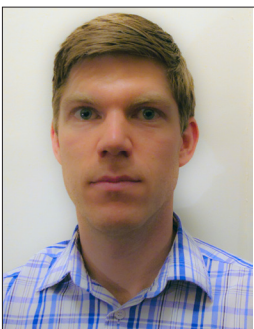
Geowissenschaftliches Kolloquium

Archaean peridotites from Greenland and their implications for the formation of cratons

Donnerstag, 13. Juli 2017 - 16.15 Uhr

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Archaean peridotites in Greenland are found as large enclaves within tonalitic gneiss. The ubiquitous association with cumulate textured norites and stratiform chromitite layers demonstrates that the peridotites are not of mantle origin, but are rather remnants of layered plutonic complexes or magma conduits. The highly refractory nature of these peridotites (bulk-rock Mg# over 92), clearly points to extreme degrees of melt extraction from their mantle source, and provides important constraints on the geodynamic setting in which they formed.



Dr. Kristoffer Szilas received a PhD from the University of Copenhagen in 2012. He then proceeded to do postdoctoral research for several years at Columbia University and Stanford University in the US, and is currently a postdoc at GEUS in Copenhagen. His research focuses on Archaean mafic-ultramafic rocks from Greenland.

Layout: FUB GeoPal Vanessa Skiba, 20170508

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