Freie Universität Berlin

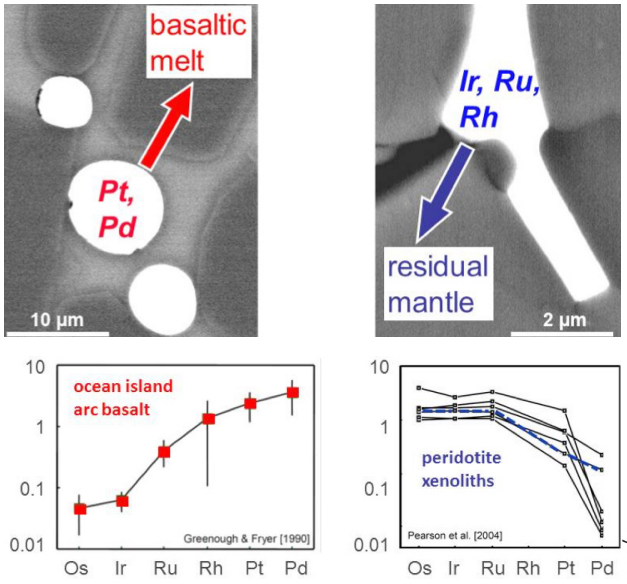
Geowissenschaftliches Kolloquium

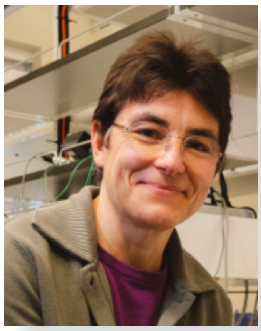
The fate of PGE during mantle melting

Donnerstag, 30. April 2020 - 16.15 Uhr

Astrid Holzheid
Christian-Albrechts-Universität zu Kiel

Opposing trends of the PGE pattern of primitive mantle melts and of peridotite-xenoliths are observed worldwide. The most likely processes of PGE fractionation during mantle melting will be discussed due consideration of various physico-chemical interaction processes between coexisting silicate, solid sulfide and liquid sulfide phases. It is possible to link the distinct different PGE pattern of primitive mantle melts and of peridotite-xenoliths to 'simple' mantle melting processes.





Astrid Holzheid did her PhD at the University of Cologne and post-docs at MIT, USA, and the University of Münster. Since November 2006 she is full professor (W3) at Kiel University. She applies experimental and theoretical petrology and geochemistry to mineralogical questions in planetary processes in the early solar system and during formation and evolution of terrestrial planets.

Layout: FUB GeoPal Vanessa Skiba, 20200321

Institut für Geologische Wissenschaften
Großer Hörsaal (C.011), Haus C
Malteserstrasse 74-100
12249 Berlin

www.geo.fu-berlin.de/geol/kolloquium