

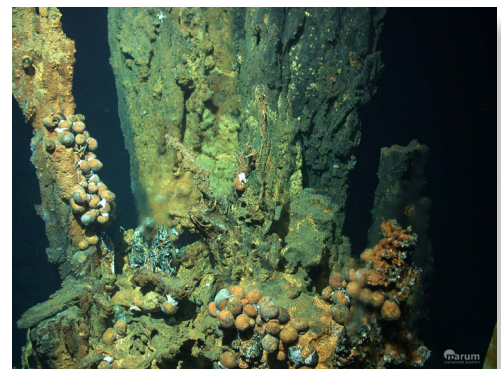
Geowissenschaftliches Kolloquium

How water-rock interactions support life in the deep sea

Donnerstag, 1. Februar 2018 - 16.15 Uhr

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The oceanic basement hosts diverse ecosystems that are fuelled by chemical energy derived from deep water-rock reactions. Life there is strongly shaped by a plethora of processes that release these geofuels. But by which mechanisms and at what rates are the geofuels formed? What controls how much of which geofuel is available where on Earth? How much biomass can be supported by the various geofuels in different settings? I'll be addressing some of these issues in my talk.



Prof. Wolfgang Bach is a petrologist at the University of Bremen and active in deep ocean hydrothermal vent research. He uses deep submergence tools to sample fluids and rocks from these vents. He also applies theory and experiments to investigate the supply and demand of chemical energy in hydrothermal vent settings.

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