

Geowissenschaftliches Kolloquium

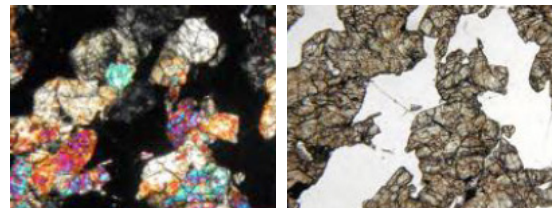
Apatite geochemistry as a tool for evaluation of Martian abiotic environment composition

Donnerstag, 14. Dezember 2017 - 16.15 Uhr

Ewa Słaby

Polish Academy of Sciences

Apatite is frequently used to show volatiles content in Martian mantle and crust. As a behavior of the volatiles is predictable during magma evolution, degassing, and partitioning into fluid, the data on apatite geochemistry may allow us to assign precisely its crystallization to particular environment and to recognize the environment chemistry. Especially the information about composition of crustal fluids circulating in Martian crust is important to diagnose the abiotic environment and the possibility of its transition to conditions conducive to life. To get relevant data each apatite domain needs careful examination.



Prof. Ewa Słaby's research concentrates on the geochemistry of magmatic and post-magmatic processes. Her group has strengths in modelling petrogenetic mechanisms applying geochemical tools, with fractal statistics used for examination of self-organizing complex phenomena, in phase investigations using combined techniques. She has served the University of Warsaw as Vice-Dean for Student Affairs and Scientific Affairs, the Mineralogical Society of Poland as Vice-President. Currently she is Director of IGS PASci, EMU Vice-President and she chairs the Committee of Mineralogical Sciences PASci.

Layout: FUB GeolPal Vanessa Skiba, 2017.12.8

Institut für Geologische Wissenschaften

Großer Hörsaal (C.011), Haus C
Malteserstrasse 74-100
12249 Berlin



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