Freie Universität Berlin

Geowissenschaftliches Kolloquium

The disposal of nuclear waste from a mineralogical point of view

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Borosilicate glasses and ceramic materials have been considered as waste forms for the disposal of nuclear waste in geological repositories. A major issue for the performance assessment of waste forms is their behavior in response to alpha-decay damage and to the presence of aqueous fluids. Studies of mineral analogues from geological systems may reveal information about self-irradiation damage and their stability against hydrothermal and low temperature fluids. Such studies are accompanied by laboratory tests of chemical durability and the kinetics of structural recovery.

Prof. Dr. Thorsten Geisler-Wierwille studied Mineralogy at the University of Hamburg, where he also received his doctoral degree. After various postdoc periods in Hamburg, Cambridge (UK), Münster, and Perth (Australia) he became a professor at the University of Bonn. His main interest is to understand the mechanisms and kinetics of mineral-fluid interactions and the application of Raman spectroscopy to various problems in Materials Research and Geosciences.

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