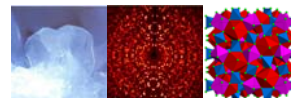


PhD Course Structural State of Minerals and its Applications



Geocenter Copenhagen, Øster Voldgade 10, 22-28 April 2012

Preliminary program:

22 April afternoon: Introduction to the course and come-together.

23 April Basics of structural crystallography and diffraction. Crystal structure databases.

24 April Compression and elasticity, thermal expansion of crystals. Methods of in-situ high pressure and high temperature analyses. Equation of State. Diffraction measurements on single crystals.

25 April Refinement of crystal structures. Basics of powder diffraction and Rietveld method.

26 April Basics of computational crystal chemistry and crystal structure modeling. Phase transitions and constitution of inner Earth.

27 April Quantitative phase analysis.

28 April Structure complications, twins, intergrowths and polytypism. Course dinner.

Lectures are followed by demonstrations, exercises and practical work with X-ray diffraction instruments and crystallographic software.

No course fee.

Lunches and the course dinner are covered by the organizer.

Application deadline: 31 March 2012.