CROCK
(Contract Number: 269658)

DELIVERABLE (D-N°:7.2)
Poster presentation of the project

Author(s): AMPHOS 21

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Date of issue of this report: 01/02/11
Start date of project: 01/01/11
Duration: 30 Months

Project co-funded by the European Commission under the Seventh Euratom Framework Programme for Nuclear Research & Training Activities (2007-2011)

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**Introduction**

The Collaborative Project CROCK is based on the desire to improve the safety statement for the crystalline rock far-field as a radionuclide migration barrier. The barrier function studied is radionuclide retention. Both key aspects of retention are addressed, i.e. chemical processes and enhanced residence time in stagnant flow-system regions (matrix diffusion). The project started on 1st January 2011 and will last 30 months.

**Objectives**

Uncertainty and the associated conservatism are the key problems in application of radionuclide retention for the purpose of improving safety statements around geologic disposal of high-level waste.

**Partners**

Partners: 10 organizations from 5 EURATOM signatory states and Russia. Coordinator: KIT-CNEN Management: AMPHOS 21

**Project Work Plan**

The scientific-technical work program is structured along 6 workpackages (WP1-6). Specific workpackages on knowledge management, education and training (WP7) and administrative management issues (WP8) are also included in the project.

- WP 1: Experimental material, characterization and natural chemical homologues
- WP 2: Radionuclide transport and sorption studies
- WP 3: Real system analysis
- WP 4: Conceptualisation and modeling
- WP 5: Application to the Safety Case
- WP 6: Documentation

- WP 7: Knowledge management, dissemination and training
- WP 8: Project Management

**Crock status**

Start of the project: 1st January, 2011
Kick-off meeting: 10th-11th February, 2011, Barcelona, Spain

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