



EUROPEAN  
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# CROCK

(Contract Number: 269658)

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

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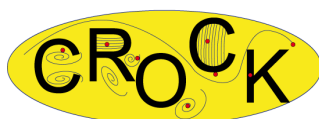
Start date of project: 01/01/11

Duration: 30 Months

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

### Dissemination Level

<b>PU</b>	Public	X
<b>RE</b>	Restricted to a group specified by the partners of the CROCK project	
<b>CO</b>	Confidential, only for partners of the CROCK project	



## **DISTRIBUTION LIST**

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Mr. Christophe Davies (European Commission)	One electronic copy submitted via participant portal	
All consortium members and European Commission	One electronic copy available on the restricted area of the CROCK webportal	

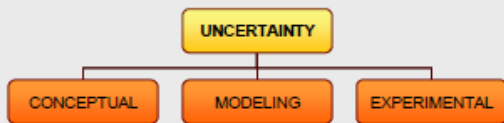


## Introduction

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 regarded, i.e. chemical processes and enhanced residence time in stagnant flow-system regions (matrix diffusion). The project started on 1<sup>st</sup> January 2011 and will last 30 months.

## Objectives

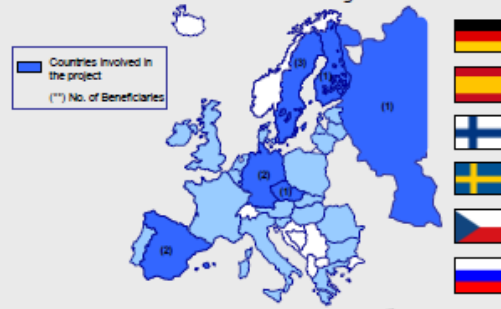
Uncertainty and the associated conservatism are the key problems in application of radionuclide retention for the purpose of improving safety statements around geologic disposal of high-level waste.



The approach of the project is to provide a methodology for defensible decrease in the uncertainty with respect to crystalline host rock far-field radionuclide transport.

## Partners

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

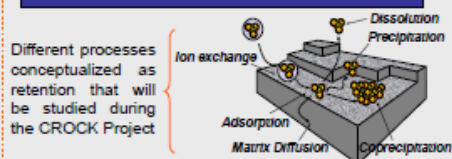
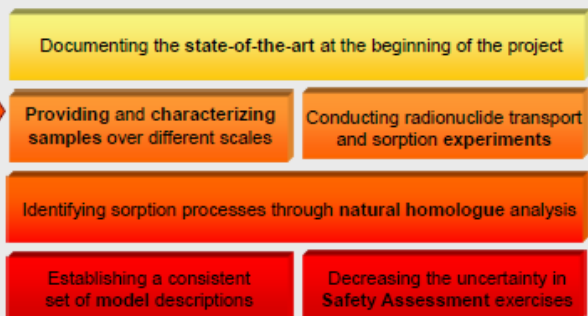


## Project Work Plan

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: Conceptualization and modeling
- WP 5: Application to the Safety Case
- WP 6: Documentation

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



Reproduced from Merrouk et al. (2002) *Reviews in Mineralogy and Geochemistry* 49, p.344

## Crock status

Start of the project → 1<sup>st</sup> January, 2011

Kick-off meeting:

10<sup>th</sup>-11<sup>th</sup> February 2011, Barcelona, Spain

There are four project bodies namely:

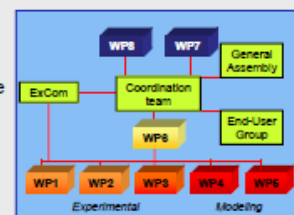
Coordination team: Coordinator: KIT, Coordination Secretariat: AMPHOS 21.

End-User Group consists of Waste Management Organizations and Regulators.

ExCom are the WP leaders.

General Assembly represents all the beneficiaries.

## PROJECT STRUCTURE



[www.crockproject.eu](http://www.crockproject.eu)

