

2nd Annual Workshop CP BELBaR

Meiringen June 17-18 2014



BELBaR

- BELBaR is a Collaborative Project within the Seventh Framework Programme of the European Atomic Energy Community (Euratom) for nuclear research and training activities.
- The main aim of BELBaR is to increase knowledge of the processes that control clay colloid stability, generation and its ability to transport radionuclides.
- The overall purpose of the project is to come up with a new way of treating issues in long-term safety/performance assessment.
- The project started March 1, 2012 and has a duration of 48 months.
- The project has 14 partners and shortly also an associated partner, from seven European countries

Meetings

- BELBaR 1st Workshop Helsinki - March
- WP3 meeting Brighton - Sept
- Topical meeting Rez - Oct
- WP5 meeting Helsinki – Nov



Project Reporting

- Periodic Report
- Financial reporting



Submitted deliverables 2012-2013

Title	Lead beneficiary	Delivery date from Annex I
D1.1 Values of the parameters selected for experimental and modelling work	SVENSK KARNBRANSLEHANTERING AB	30/04/2012 (2 months)
D6.2 Presentation of the project	SVENSK KARNBRANSLEHANTERING AB	31/05/2012 (3 months)
D1.2 Current state-of-the-art regarding treatment of colloids in the long term safety case	NUCLEAR DECOMMISSIONING AUTHORITY - NDA	31/08/2012 (6 months)
D4.1 Experimental techniques used for investigations of clay colloid stability	CLAY TECHNOLOGY AB	31/08/2012 (6 months)
5.1 Descriptions of conceptual models and the related mathematical models to support D1.1	TEKNOLOGIAN TUTKIMUSKESKUS VTT	31/08/2012 (6 months)
D6.3 project Review of project dissemination plan	SVENSK KARNBRANSLEHANTERING AB	31/08/2012 (6 months)
D6.4 Communication Action plan and Publication plan	SVENSK KARNBRANSLEHANTERING AB	31/08/2012 (6 months)
D2.1 Report on the effects of the water chemistry and clay chemistry on erosion processes	CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT	31/05/2013 (15 months)
D2.2 Progress report on erosion processes under flowing water conditions	KUNGLIGA TEKNISKA HOEGSKOLAN	31/05/2013 (15 months)
D2.3 Progress report on the analysis and characterization of the bentonite gel and colloids obtained	JYVASKYLAN YLIOPISTO	31/05/2013 (15 months)
D3.1 Report on microscale investigations on colloid mobility controlling processes	M V LOMONOSOV MOSCOW STATE UNIVERSITY	31/05/2013 (15 months)
D3.2 Macroscale investigations on colloid stability in near-natural systems	HELSINGIN YLIOPISTO	31/05/2013 (15 months)
D3.3 Understanding of radionuclide colloid interaction	THE UNIVERSITY OF MANCHESTER	31/05/2013 (15 months)
D4.2 Progress report on the effect of pH on clay colloid stability	CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT	31/05/2013 (15 months)

Submitted deliverables 2014

Title	Lead beneficiary	Delivery date from Annex I
5.2 Progress report of model validation results and model development	KUNGLIGA TEKNISKA HOEGSKOLAN	28/02/2014 (24 months)
D6.7 Presentation of project and initial results at international conference	SVENSK KARNBRANSLEHANTERING AB	28/02/2014 (24 months)
D2.5 Progress report on erosion processes under flowing water conditions	CLAY TECHNOLOGY AB	31/05/2014 (27 months)
D2.6 Analysis and characterization of the bentonite gel and colloids obtained in erosion tests	TEKNOLOGIAN TUTKIMUSKESKUS VTT	31/05/2014 (27 months)
D3.4 Report on microscale investigations on colloid mobility controlling processes	M V LOMONOSOV MOSCOW STATE UNIVERSITY	31/05/2014 (27 months)
D3.5 Macroscale investigations on colloid mobility in near-natural systems	HELSINGIN YLIOPISTO	31/05/2014 (27 months)
D3.6 Understanding of radionuclide colloid interaction	THE UNIVERSITY OF MANCHESTER	31/05/2014 (27 months)
D2.4 Report on the effects of the water chemistry and clay chemistry on erosion processes	CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT	31/05/2014 (27 months)
D4.4 Report on the reverability of the coagulation process	CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT	31/05/2014 (27 months)
D4.5 KIT-INE Progress report on colloid stability and DOC effect	Karlsruher Institut fuer Technologie	31/05/2014 (27 months)
D4.6 Status report on influence of complexing agents on clay colloid stability	Karlsruher Institut fuer Technologie	31/05/2014 (27 months)
D4.7 Status report on the effects of various anions	CLAY TECHNOLOGY AB	31/05/2014 (27 months)

Deliverables 2015

Title	Lead beneficiary
D2.7 Report on the effects of the water chemistry and clay chemistry on erosion processes	CIEMAT
D2.8 Final report on erosion processes under flowing water conditions	CIEMAT
D2.9 Analysis and characterization of the bentonite gel and colloids obtained in erosion tests	Karlsruher Institut fuer Technologie
D2.10 Analysis of bentonite colloid generation	CIEMAT
D3.7 Report on microscale investigations on colloid mobility controlling processes	M V LOMONOSOV MOSCOW STATE UNIVERSITY
D3.8 Macroscale investigations on colloid mobility in near-natural systems	HELSINGIN YLIOPISTO
D3.9 Understanding of radionuclide colloid interaction	THE UNIVERSITY OF MANCHESTER
D3.10 Mechanical model of radionuclide colloid interaction	THE UNIVERSITY OF MANCHESTER
D4.8 Report on the effect of different bentonite types on clay colloid stability	CIEMAT
D4.9 Rheology of attractive and repulsive montmorillonite/bentonite gels	CLAY TECHNOLOGY AB
D4.10 Effects of different mechanisms/factors on colloid stability	KUNGLIGA TEKNISKA HOEGSKOLAN
D2.12 WP2 partners final report. Evaluation of experimental results on bentonite erosion	CLAY TECHNOLOGY AB
D2.11 Evaluation of experimental results on bentonite erosion	CIEMAT
D3.11 Experimental results on micro-to macroscale colloid rock and radionuclide interaction	Karlsruher Institut fuer Technologie
D4.11 WP4 partners final report on experimental results on clay colloid stability	USTAV JADERNEHO VYZKUMU REZ A.S.
5.3 Synthesis report of model development and validations to support and to be referred to in D1.47	POSIVA OY
D1.4 Synthesis report of colloids and related issues in the long term safety case	NUCLEAR DECOMMISSIONING AUTHORITY - NDA

Upcoming Conferences

- Mid European Clay Conference Sept 16-19 2014 (Dresden)
- CLAY CONFERENCE March 23-26 2015 (Brussels)
- EUROCLAY 2015 July 5–10 (Edinburgh)



Publications

- Send title and authors to Coordinator when article is submitted to a journal.
- Send title and authors to Coordinator when article is published in a journal.
- www.belbar.eu



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