

Selection of publications and reports

A selection of key publications and reports in which Nagra has been involved during the last 6 years is given below. The list is not comprehensive, but provides an impression of our past and ongoing RD&D activities.

The documents are organised into four broad categories:

1. Waste properties
2. Engineered barriers
3. Geology
4. Miscellaneous

All documents are available in principle:

- The books and papers are published; a copy can be obtained from the journal or the publishing company on payment (copyright does not permit Nagra to include them here).
- The conference proceedings can be downloaded from the respective conference website indicated in brackets. Certain contributions may require payment; again here copyright does not permit Nagra to include them here.
- Nagra Technical Reports (NTB) can be downloaded from the Download-Center.
- Nagra Working Reports (NAB) can be obtained from the Nagra library on request.

1. Waste properties

Books and peer reviewed papers

Maxeiner H.; Vespa M.; Volmert B.; Pantelias M.; Caruso S.; Müller T. (2013): Development of the inventory for existing and future radioactive wastes in Switzerland: ISRAM & MIRAM.- ATW: Atomwirtschaft, Atomtechnik 58 / 11, 626-634.

Johnson L.; Günther-Leopold I.; Kobler Waldis J.; Linder H.P.; Low J.; Cui D.; Ekeroth E.; Spahiu K.; Evins L.Z. (2012): Rapid aqueous release of fission products from high burn-up LWR fuel: Experimental results and correlations with fission gas release.- Journal of Nuclear Materials 420, 56-62.

Conference papers

Kashiwagi M.; Garamszeghy M.; Lantès B.; Bonne S.; Pillette-Cousin L.; Leganes J.L.; Volmert B.; James D.W. (2013): ISO standardization of theoretical activity evaluation method for low and intermediate level activated waste generated at nuclear power plants. ICEM2013-96025.- ASME 2013. 15th International Conference on Environmental Remediation and Radioactive Waste Management (ICEM2013), Sept 8 – 12, 2013 Brussels, Belgium, 5.

<http://asmedigitalcollection.asme.org/>

Pantelias M.; Volmert B.; Caruso S.; Zvoncek P.; Bitterli B.; Neukaeter E.; Nissen W.; Ledergerber G.; Vielma R. (2012): MCNP modeling of the Swiss LWRs for the calculation of the in- and ex-vessel neutron flux distributions.- PHYSOR 2012 – Advances in Reactor Physics – Linking Research, Industry, and Education, Knoxville, Tennessee, USA, April 15-20, 2012, American Nuclear Society, LaGrange Park, IL, 13.

<http://www.ans.org/store/>

Nagra reports

Johnson L. (2014): A model for radionuclide release from spent UO₂ and MOX fuel. Nagra Arbeitsbericht. NAB 13-037. Nagra, Wettingen.

Vespa M. (2013): Modellhaftes Inventar für radioaktive Materialien MIRAM 12. Nagra Arbeitsbericht. NAB 13-039. Nagra, Wettingen.

Warthmann R.; Mosberger L.; Baier U. (2013): Langzeit-Degradation von organischen Polymeren unter SMA-Tiefenlagerbedingungen. Nagra Technischer Bericht. NTB 13-04. Nagra, Wettingen, 2013.

Nagra (2008): Modellhaftes Inventar der radioaktiven Abfälle: MIRAM 2008. Nagra Technischer Bericht. NTB 08-06. Nagra, Wettingen.

2. Engineered barriers

Books and peer reviewed papers

Diomidis N.; Johnson L.H. (2014): Materials options and corrosion-related considerations in the design of spent fuel and high-level waste disposal canisters for a deep geological repository in Opalinus Clay.- *JOM* 66 / 3, 461-470.

Gaus I.; Wieczorek K.; Schuster K.; Garitte B.; Senger R.; Vasconcelos R.; Mayor J.-C. (2014): EBS behaviour immediately after repository closure in a clay host rock: HE-E experiment (Mont Terri URL).- *Clays in Natural and Engineered Barriers for Radioactive Waste Confinement*, 5th international meeting, Montpellier, October 22-25, 2012, Geological Society, London, Special Publications 400, first published March 7, 2014; doi 10.1144/SP400.11, 22.

Jenni A.; Mäder U.; Lerouge C.; Gaboreau S.; Schwyn B. (2014): In situ interaction between different concretes and Opalinus Clay.- *Physics and Chemistry of the Earth* 70-71, 71-83.

Sellin P.; Leupin O. (2013): The use of clay as an engineered barrier in radioactive waste management - a review.- *Clays and Clay Minerals* 61 / 6, 477-498.

Xu W.; Shao H.; Marschall P.; Hesser J.; Kolditz O. (2013): Analysis of flow path around the sealing section HG-A experiment in the Mont Terri Rock Laboratory. *Environmental Earth Sciences* 70 / 7, 3363-3380.

Alonso M.C.; García Calvo J.L.; Walker C.; Naito M.; Pettersson S.; Puigdomenech I.; Cuñado M.A.; Vuorio M.; Weber H.; Ueda H.; Fujisaki K. (2012): Development of an accurate pH measurement methodology for the pore fluids of low pH cementitious materials. SKB Report R-12-02. Swedish Nuclear Fuel and Waste Management SKB, Stockholm.

Poller A.; Enssle C.P.; Mayer G.; Croisé J.; Wendling J. (2011): Repository-Scale Modeling of the Long-Term Hydraulic Perturbation Induced by Gas and Heat Generation in a Geological Repository for High-and Intermediate-Level Radioactive Waste: Methodology and Example of Application.- *Transport in Porous Media* [Special issue on the 2009 TOUGH symposium] 90 / 1, 77-94.

Senger R.; Ewing J.; Zhang K.; Avis J.; Marschall P.; Gaus I. (2011): Modeling approaches for investigating gas migration from a deep low/intermediate level waste repository (Switzerland).- *Transport in Porous Media* [Special issue on the 2009 TOUGH symposium] 90 / 1, 113-133.

Holzer L.; Münch B.; Rizzi M.; Wepf R.; Marschall P.; Graule T. (2010): 3D-microstructure analysis of hydrated bentonite with cryo-stabilized pore water.- *Applied Clay Science* 47, 330-342.

Cui D.; Puranen A.; Devoy J.; Scheidegger A.; Leupin O.; Wersin P.; Gens R.; Spahiu K. (2009): Reductive immobilization of ⁷⁹Se by iron canister under simulated repository environment.- *Journal of Radioanalytical and Nuclear Chemistry* 282, 349-354.

Johnson L.; King F. (2008): The effect of the evolution of environmental conditions on the corrosion evolutionary path in a repository for spent fuel and high-level waste in Opalinus Clay. *Journal of Nuclear Materials* 379 / 1-3, 9-15.

Senger R.; Lanyon B.; Marschall P.; Vomvoris S.; Fujiwara A. (2008): Numerical modeling of the gas migration test at the Grimsel Test Site (Switzerland) .- *Nuclear Technology* 164 / 2, 155-168.

Senger R.; Marschall P.; Finsterle S. (2008): Investigation of two-phase flow phenomena associated with corrosion in an SF/HLW repository in Opalinus Clay, Switzerland.- *Clay in natural and engineered barriers for radioactive waste confinement (Lille 2007), Physics and Chemistry of the Earth* 33 / Suppl.1, S317-S326.

Conference papers

Garitte B.; Müller H.; Vogt T.; Vietor T.; Thatcher K.; Senger R. (2014): Scoping computations for the full-scale emplacement (FE) experiment at the Mont Terri underground research laboratory.- PEBS - International conference on the Performance of Engineered Barriers: Backfill, Plugs & Seals, February 6-7, 2014, BGR, Hannover, Germany, 157-158.

http://www.pebs-eu.de/PEBS/EN/Downloads/D5_15.pdf?_blob=publicationFile&v=2

Gaus I.; Johnson L.; Wieczorek K.; Gens A.; Garcia-Sineriz J.-L.; Trick T.; Senger R.; Kuhlman U.; Dueck A.; Villar M.; Leupin O.; Czaikowski O.; Garitte B.; Schuster K.; Mayor J.C. (2014): EBS performance at temperatures above 100°C - PEBS Case 2.- PEBS - International conference on the Performance of Engineered Barriers: Backfill, Plugs & Seals, February 6-7, 2014, BGR, Hannover, Germany, 13-14.

http://www.pebs-eu.de/PEBS/EN/Downloads/D5_15.pdf?_blob=publicationFile&v=2

Gaus I.; Martin P.-L.; Thurner E.; Vähänen M.; Teodori S.-P.; Kober F.; Kwon J.-S. (2014): FEBEX in situ test after 18 years of monitoring - final dismantling in 2015.- PEBS - International conference on the Performance of Engineered Barriers: Backfill, Plugs & Seals, February 6-7, 2014, BGR, Hannover, Germany, 37-38.

http://www.pebs-eu.de/PEBS/EN/Downloads/D5_15.pdf?_blob=publicationFile&v=2

Kuhlmann U.; Gaus I. (2014): Inverse Modeling of the FEBEX-In-situ Heating Experiment: Parameter Estimation, Extrapolation and Predictive Uncertainty Analysis.- PEBS - International conference on the Performance of Engineered Barriers: Backfill, Plugs & Seals, February 6-7, 2014, BGR, Hannover, Germany, 153-154.

http://www.pebs-eu.de/PEBS/EN/Downloads/D5_15.pdf?_blob=publicationFile&v=2

Müller H.R.; Garitte B.; Weber H.P.; Köhler S.; Plötze M. (2014): Bentonite buffer material production and emplacement during the Full-Scale Emplacement (FE) Experiment at the Mont Terri URL.- PEBS - International conference on the Performance of Engineered Barriers: Backfill, Plugs & Seals, February 6-7, 2014, BGR, Hannover, Germany, 27-28.

http://www.pebs-eu.de/PEBS/EN/Downloads/D5_15.pdf?_blob=publicationFile&v=2

Sellin P.; García-Siñeriz J.L.; Dueck A.; Mayor J.-C.; Villar M.V.; Martín P.L.; Gens A.; Kristensson O.; Alonso E.; Gaus I. (2014): HM Evolution of the Buffer – PEBS Case 3.- PEBS - International conference on the Performance of Engineered Barriers: Backfill, Plugs & Seals, February 6-7, 2014, BGR, Hannover, Germany, 15-16.

http://www.pebs-eu.de/PEBS/EN/Downloads/D5_15.pdf?_blob=publicationFile&v=2

Johnson L.; Sellin P.; Mayor J.C.; Wieczorek K.; Gaus I.; Mente M. (2013): PEBS: Improvement of the long-term performance prediction of clay-based engineered barriers systems.- EURADWASTE 13, 8th EC conference on the Management of Radioactive Waste : Community Policy and Research on Disposal, 14-17 October 2013, Vilnius, Lithuania. Conference presentations, 17.

http://cordis.europa.eu/fp7/euratom-fission/euradwaste-2013_en.html

Kronberg J.G.M.; Svemar C.; Haapla K.; Weber H.; Morel J. (2013): LUCOEX: “State of- Art Demonstrations of Geological Disposal for High Level Waste Large Underground Concept Experiments”. Abstract.- EURADWASTE 13, 8th EC conference on the Management of Radioactive Waste : Community Policy and Research on Disposal, 14- 17 October 2013, Vilnius, Lithuania, 60.

http://cordis.europa.eu/fp7/euratom-fission/euradwaste-2013_en.html

Leupin O.; Sellin P. (2013): The use of clay in radioactive waste disposal - A review of the different applications.- The 50th Anniversary Annual Meeting of The Clay Minerals Society (USA), October 6-10, 2013, University of Illinois at Urbana-Champaign. Program & Abstracts, 145.

http://www.clays.org/annual%20meeting/50th_annual_meeting_website/docs/CMS-2013-Program.pdf

Newman R.C.; Wang S.; Johnson L.; Diomidis N. (2013): Carbon steel corrosion and hydrogen gas generation in cementitious grout.- Gas Generation and Migration, International Symposium and Workshop, 5th to 7th February 2013, Luxembourg. Proceedings. FORGE Report D0.09 , 70-73.

<http://www.bgs.ac.uk/forge/docs/reports/D0.9.pdf>

Poller A.; Smith P.; Mayer G.; Hayek M.; Schneider J.; Zuidema P. (2013): Modelling study to evaluate two variants for accessing a deep geological repository from the point of view of long-term safety. ICEM2013-96080. Paper.- ASME 2013. 15th International Conference on Environmental Remediation and Radioactive Waste Management (ICEM2013), Sept 8 – 12, 2013 Brussels, Belgium, 9.

<http://asmedigitalcollection.asme.org/>

Sellin P.; Leupin O. (2013): Alteration of clays in engineered barriers for nuclear waste repositories - what are the issues?.- The 50th Anniversary Annual Meeting of The Clay Minerals Society (USA), October 6-10, 2013, University of Illinois at Urbana- Champaign. Program & Abstracts, 225.

http://www.clays.org/annual%20meeting/50th_annual_meeting_website/docs/CMS-2013-Program.pdf

Spillmann T.; Maurer H.; Tisato N.; Marelli S.; Rueedi J. (2013): Geophysical monitoring of a gas permeable seal. Extended Abstract.- MoDeRn Monitoring in geological disposal of radioactive waste: Objectives, strategies, technologies and public involvement, proceedings of an international conference and workshop, Luxembourg 19-21 March 2013, Deliverable D-N°: 5.4.1, 224-229.

<http://www.modern-fp7.eu/monitoring-gdrw-2013/home/>

Teodori S.-P.; Rueedi J.; Reinhold M.; Manca D. (2013): Design, testing and emplacement of sand-bentonite for the construction of a gas permeable seal test (GAST). ICEM2013-96086.- ASME 2013. 15th International Conference on Environmental Remediation and Radioactive Waste Management (ICEM2013), Sept 8 – 12, 2013 Brussels, Belgium, 10.

<http://asmedigitalcollection.asme.org/>

Vogt T.; Müller H.; Sakaki T.; Vietor T. (2013): Monitoring THM effects in a full scale EBS/host rock system - first experiences of the FE-Experiment in the Mont Terri URL during construction and ventilation phase. Extended Abstract.- MoDeRn Monitoring in geological disposal of radioactive waste: Objectives, strategies, technologies and public involvement, proceedings of an international conference and workshop, Luxembourg 19-21 March 2013, Deliverable D-N°: 5.4.1, 326-334.

<http://www.modern-fp7.eu/monitoring-gdrw-2013/home/>

Gaus I.; Wiczorek K.; Mayor J.-C.; Trick T.; Garcìa Siñeriz J.-L.; Schuster K.; Garitte B.; Kuhlmann U. (2011): EBS behaviour immediately after repository closure in a clay host rock: The HE-E experiment (Mont Terri URL). ICEM2011-59288.- Proceedings of the ASME 2011 14th International Conference on Environmental Remediation and Radioactive Waste Management : ICEM 2011 : September 25-29, 2011, Reims, France, 6.

<http://asmedigitalcollection.asme.org/>

Rueedi J.; Marschall P. (2011): Demonstration of gas-permeable seals for radioactive waste repositories - Laboratory and in-situ experiments. ICEM 2011-59224.- Proceedings of the ASME 2011 14th International Conference on Environmental Remediation and Radioactive Waste Management : ICEM2011: September 25-29, 2011, Reims, France, 8.

<http://asmedigitalcollection.asme.org/>

Vomvoris S.; Gaus I.; Rueedi J.; Marschall P. (2011): Large-scale tests of the behaviour of bentonite-based barriers: FEBEX & GAST.- Progress made and challenges ahead for safe disposal of high-level radioactive waste: Proceedings of the 13th international high-level radioactive waste management conference (IHLRWMC): April 10-14, 2011, Albuquerque, New Mexico, 8

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Gaus I.; Marschall P.; Senger R.; Ewing J.; Rueedi J. (2010): Assessing the gas transport mechanisms in the Swiss L/ILW concept using numerical modeling and supporting experimental work. ICEM2010-40153.-ASME 2010. 13th International Conference on Environmental Remediation and Radioactive Waste Management (ICEM2010), Oct 3-7, 2010, Tsukuba, Japan. ASME, Fairfield, 9.

<http://asmedigitalcollection.asme.org/>

Johnson L.H.; Pellegrini D.; Alonso J.; Plas F.; Van Geet M. (2009): Near-field processes - the challenge of integration into performance assessment.- EURADWASTE '08 Seventh European Commission conference on the management and disposal of radioactive waste, community policy and research & training activities, 20-22 October 2008, Luxembourg. Conference Proceedings, 213-222.

http://cordis.europa.eu/fp7/euratom-fission/euradwaste2008_en.html

Lanyon G.W.; Senger R.; Marschall P. (2009): A structured approach to the derivation of effective properties for combined water and gas flow in the EDZ.- Proceedings TOUGH symposium 2009, Lawrence Berkeley National Laboratory, Berkeley, California, September 14-16, 2009, 8.

<http://esd.lbl.gov/research/projects/tough/documentation/proceedings/>

Breen B.; Johnson M.; Frieg B.; Blechschmidt I.; Manukyan E.; Marelli S.; Maurer H.R. (2008): Development of non-intrusive monitoring techniques - ESDRED & TEM projects at Mont Terri and the Grimsel Test Site. Session 3 Nr. 17.- ESDRED proceedings: International technical conference on the practical aspects of deep geological disposal of radioactive waste. Prague, Czech Republic June 16-18, 2008. Theme: Underground disposal unit design & emplacement processes for a deep geological repository "Operational & Safety Considerations", 11.

<http://www.esdred.info/conferences.htm>

Fries T.; Claudel A.; Weber H.; Johnson L.; Leupin O. (2008): The Swiss concept for the disposal of spent fuel and vitrified HLW. Session 1 Nr. 3.- ESDRED proceedings: International technical conference on the practical aspects of deep geological disposal of radioactive waste. Prague, Czech Republic June 16-18, 2008. Theme: Underground disposal unit design & emplacement processes for a deep geological repository "Operational & Safety Considerations", 9

<http://www.esdred.info/conferences.htm>

Glaus M.A.; Van Loon L.R.; Schwyn B.; Vines S.; Williams S.J.; Larsson P.; Puigdomenech I. (2008): Long-term predictions of the concentration of alpha-isosaccharinic acid in cement pore water. Scientific basis for nuclear waste management XXXI: Symposium held September 16-21, 2007, Sheffield, UK. MRS symposium proceedings vol. 1107, 605-612.

<http://www.mrs.org/opl/>

Marschall P.; Trick T.; Lanyon G.W.; Delay J.; Shao H. (2008): Hydro-mechanical evolution of damaged zones around a microtunnel in a claystone formation of the Swiss Jura Mountains. ARMA 08-193.- American Rock Mechanics Association ARMA 08: 42nd US Rock Mechanics Symposium and 2nd U.S.-Canada Rock Mechanics Symposium, San Francisco, June 29-July 2, 2008, 11.

<https://www.onepetro.org/>

Shimura T.; Vomvoris S.; Lanyon G.W.; Marschall P.; Ando K.; Yamamoto S.; Asano H. (2008): Gas Migration through bentonite/sand: Lessons learned from the GMT in situ Test.- Clays in natural and engineered barriers for radioactive waste confinement. Selected papers from the 3rd international meeting, Lille, September 2007. Science & Technology series N° 334. Andra, Chatenay-Malabry, 85-93.

<http://www.nantes2010.com/doc/pdf/lille/proceedings-lille-2007.pdf>

Nagra reports

Johnson L.; Gaus I.; Wieczorek K.; Mayor J.-C.; Sellin P.; Villar M.-V.; Samper J.; Cuevas J.A.; Gens M.; Velasco M.; Turrero M.J.; Montenegro L.; Martin P.-L.; Armand G. (2014): Integration of the Short-term Evolution of the Engineered Barrier System (EBS) with the Long-term Safety Perspective, EU PEBS Project, Nagra Arbeitsbericht NAB 14-079. Nagra, Wettingen.

Gaus I.; Garitte B.; Czaikowski O.; Senger R.; Gens A.; Vasconcelos R.; Garcia-Sineriz J.-L.; Trick T.; Wieczorek K.; Schuster K.; Mayor J.C.; Velasco M.; Kuhlmann U.; Villar M.V. (2014): The HE-E Experiment: Lay-out, interpretation and THM modelling. Nagra Arbeitsbericht. NAB 14-053. Nagra, Wettingen.

Stroes-Gascoyne S.; Hamon C. (2013): Microbial Gas Production from Superplasticizers in Shotcrete. Nagra Arbeitsbericht. NAB 13-085. Nagra, Wettingen.

Warthmann R.; Mosberger L.; Meier U. (2013): Anaerober Abbau und Gasbildungskinetik für SMA in geologischen Tiefenlagern. Nagra Arbeitsbericht. NAB 13-052. Nagra, Wettingen.

Lanyon G.W.; Gaus I. (2013): Main outcomes and review of the FEBEX In Situ Test (GTS) and Mock-Up after 15 years of operation. Nagra Arbeitsbericht. NAB 13-096. Nagra, Wettingen.

Patel R.; Punshon C.; Nicholas J.; Bastid P.; Zhou R.; Schneider C.; Bagshaw N.; Howse D.; Hutchinson E.; Asano R.; King F. (2012): Canister Design Concepts for Disposal of Spent Nuclear Fuel and High Level Waste. Nagra Technischer Bericht. NTB 12-06. Nagra, Wettingen.

Smith P.A.; Poller A. (2012): The Nagra Resistor Network Code. Nagra Arbeitsbericht. NAB 12-036. Nagra, Wettingen.

Bradbury M.H.; Baeyens B. (2011): Physico-chemical characterisation data and sorption measurements of Cs, Ni, Eu, Th, U, Cl, I and Se on MX-80 bentonite. Nagra Technischer Bericht. NTB 09-08. Nagra, Wettingen.

Plötze M.; Valter M. (2011): Bentonite as barrier material - Thermal conductivity of compacted bentonite. Nagra Arbeitsbericht. NAB 11-016. Nagra, Wettingen.

Bradbury M.H.; Baeyens B. (2010): Comparison of the reference Opalinus Clay and MX-80 bentonite sorption data bases used in the Entsorgungsnachweis with sorption data bases predicted from sorption measurements on illite and montmorillonite. Nagra Technischer Bericht. NTB 09-07. Nagra, Wettingen.

Pike S.; Allen C.; Punshon C.; Threadgill P.; Gallegillo M.; Holmes N.J. (2010): Critical Review of Welding Technology for Canisters for Disposal of Spent Fuel and High Level Waste. Nagra Technischer Bericht. NTB 09-05. Nagra, Wettingen.

Landolt D.; Davenport A.; Payer J.; Shoesmith D.W. (2009): A review of materials and corrosion issues regarding canisters for disposal of spent fuel and high-level waste in opalinus clay. Nagra Technischer Bericht. NTB 09-02. Nagra, Wettingen.

Nagra (2009): Performance of bentonite as buffer and sealing material: status of RD&D programme. Nagra Arbeitsbericht. NAB 09-012. Nagra, Wettingen.

Turnbull A. (2009): A review of the possible effects of hydrogen on lifetime of carbon steel nuclear waste canisters. Nagra Technischer Bericht. NTB 09-04. Nagra, Wettingen.

Glaus M.A.; Van Loon L.R. (2008): Chemical reactivity of alpha-isosaccharinic acid in heterogeneous alkaline systems. Nagra Technischer Bericht. NTB 08-10. Nagra, Wettingen.

King F. (2008): Corrosion of carbon steel under anaerobic conditions in a repository for SF and HLW in Opalinus Clay. Nagra Technischer Bericht. NTB 08-12. Nagra, Wettingen.

Nagra (2008): Effects of post-disposal gas generation in a repository for low- and intermediate-level waste sited in the Opalinus Clay of Northern Switzerland. Nagra Technischer Bericht. NTB 08-07. Nagra, Wettingen.

Senger R.; Ewing J. (2008): Evolution of temperature and water content in the bentonite buffer: Detailed modelling of two-phase flow processes associated with the early closure period - Complementary simulations. Nagra Arbeitsbericht. NAB 08-053. Nagra, Wettingen.

3. Geology

Books and peer reviewed papers

Labiouse V.; Vietor T. (2014): Laboratory and in situ simulation tests of the excavation damaged zone around galleries in Opalinus Clay. *Rock Mechanics and Rock Engineering* 47 / 1, 57-70.

Lisjak A.; Tatone B.S.A.; Grasselli G.; Vietor T. (2014): Numerical modelling of the anisotropic mechanical behaviour of Opalinus Clay at the laboratory-scale using FEM/DEM.- *Rock Mechanics and Rock Engineering* 47 / 1, 187-206.

Yu L.; Weetjens E.; Sillen X.; Vietor T.; Li X.; Delage P.; Labiouse V.; Charlier R. (2014): Consequences of the thermal transient on the evolution of the damaged zone around a repository for heat-emitting high-level radioactive waste in a clay formation: a performance assessment perspective.- *Rock Mechanics and Rock Engineering* 47 / 1, 3-19.

Soler J.M.; Wersin P.; Leupin O.X. (2013): Modeling of Cs+ diffusion and retention in the DI-A2 experiment (Mont Terri). Uncertainties in sorption and diffusion parameters.- *Applied Geochemistry* 33, 191-198.

TerHeege J.H.; Wassing B.B.T.; Orlic B.; Giger S.B.; Clennell M.B. (2013): Constraints on the sealing capacity of faults with clay smears from discrete element models validated by laboratory experiments.- *Rock Mechanics and Rock Engineering* 46 / 3, 465-478.

Wersin P.; Waber H.N.; Mazurek M.; Mäder U.K.; Gimmi T.; Rufer D.; Traber D. (2013): Resolving Cl and SO₄ profiles in a clay-rich rock sequence. - [WRI-14] Avignon, 9-14 June 2013. *Procedia Earth and Planetary Science* 7, 892 – 895.

Yanites B.J.; Ehlers T.A.; Becker J.K.; Schnellmann M.H.; Heuberger S. (2013): High magnitude and rapid incision from river capture: Rhine river, Switzerland.- *Journal of Geophysical Research - Earth Surface* 118 / 2, 1060-1084.

Frasca B.; Savoye S.; Wittebroodt C.; Leupin O.X.; Descostes M.; Grenut B.; Etep-Batanken J.; Michelot J.-L. (2012): Influence of redox conditions on iodide migration through a deep clay formation (Toarcian argillaceous rock, Tournemire, France).- *Applied Geochemistry* 27 / 12, 2453–2462.

Schwyn B.; Wersin P.; Rueedi J.; Schneider J.; Altmann S.; Missana T.; Noseck U. (2012): FUNMIG integrated project results and conclusions from a safety case perspective.- *Applied Geochemistry* [Special issue FUNMIG] 27 / 2, 501-515.

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Mazurek M.; Alt-Epping P.; Bath A.; Gimmi T.; Waber H.N.; Buschaert S.; De Cannière P.; De Craen M.; Gautschi A.; Savoye S.; Vinsot A.; Wermaere I.; Wouters L. (2011): Natural tracer profiles across argillaceous formations.- *Applied Geochemistry* 26 / 7, 1035-1064.

Tournassat C.; Alt-Epping P.; Gaucher E.C.; Gimmi T.; Leupin O.X.; Wesin P. (2011): Biogeochemical processes in a clay formation in-situ experiment: Part F – Reactive transport modelling.- Applied Geochemistry 26 / 6, 1009-1022.

Wersin P.; Leupin O.X.; Mettler S.; Gaucher E.C.; Mäder U.; De Cannière P.; Vinsot A.; Gäbler H.E.; Kunimaro T.; Kiho K.; Eichinger L. (2011): Biogeochemical processes in a clay formation in-situ experiment: Part A - Overview, experimental design and water data of an experiment in the Opalinus Clay at the Mont Terri Underground Research Laboratory, Switzerland.- Applied Geochemistry 26 / 6, 931-953.

Fischer U.H.; Haeberli W. (2010): Modelling glacial erosion: processes and uncertainties. Workshop on glacial erosion modelling, Unterägeri, Switzerland, 29 April - 1 May 2010.- ICE, the News Bulletin of the International Glaciological Society IGS 154 / 3, 32.

Spillmann T.; Blümling P.; Manukyan E.; Marelli S.; Maurer H.R.; Greenhalgh S.A.; Green A.G. (2010): Geophysics applied to nuclear waste disposal investigations in Switzerland.- First Break 28 / August, 39-50.

Mazurek M.; Gautschi A.; Marschall P.; Vigneron G.; Lebon P.; Delay J. (2008): Transferability of geoscientific information from various sources (study sites, underground rock laboratories, natural analogues) to support safety cases for radioactive waste repositories in argillaceous formations.- Clay in natural and engineered barriers for radioactive waste confinement (Lille 2007), Physics and Chemistry of the Earth 33 / Suppl.1, S95-S105.

Conference papers

Bagnoud A.; Schwyn B.; Leupin O.; Bernier-Latmani R. (2013): In situ microbial oxidation of H₂ in the deep subsurface. 9.1.- Abstract Volume 11th Swiss Geoscience Meeting, Lausanne, 15th – 16th November 2013 : Cycles and events in the earth system, 196.

http://geoscience-meeting.scnatweb.ch/sqm2013/abstracts_2013/SGM_2013_Book_s.pdf

Deplazes G.; Bläsi H.; Jordan P.; Meier B.; Traber D.; Schnellmann M. (2013): Tracing the extent and formation of the Oxfordian limestone-marl successions of the Effingen Member. 6.1.- Abstract Volume 11th Swiss Geoscience Meeting, Lausanne, 15th – 16th November 2013 : Cycles and events in the earth system, 155.

http://geoscience-meeting.scnatweb.ch/sqm2013/abstracts_2013/SGM_2013_Book_s.pdf

Gimmi T.; Leupin O.X.; Soler J.M.; Van Loon L.R. (2013): Perturbing a field diffusion experiment: First results of the DR-A test in the Mont Terri Rock Laboratory (Switzerland). Goldschmidt 2013 Conference Abstracts DOI:10.1180/minmag.2013.077.5.7, 1174.

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