

2nd International conference on Monitoring in Geological disposal of radioactive waste

9-11 April 2019
Cité Universitaire, Paris, FRANCE

PRELIMINARY AGENDA

DAY 1 – 9 April 2019

Session 1: Opening session (Chair: Johan Bertrand)

09:30	Arrival and registration	
10:00	Welcome & Opening ceremony	Frédéric Plas, Andra (FR)
10:15	EURATOM programme	Christophe Davies, DG-RTD, EC
10:30	Overview of the Modern2020 project	Johan Bertrand, Andra (FR)

Session 2: Key conclusion from the Modern2020 project (Chair: Johan Bertrand)

10:50	Monitoring strategies (WP2) - Approach and Key Messages	Mansueto Morosini, SKB (SE)
11:10	Monitoring technologies (WP3) - Approach and Key Messages	José Luis García-Siñeriz, Amberg (SP)
11:35	Demonstration (WP4) - Approach and Key Messages	Jan Verstricht, Euridice GIE (BE)
11:55	Engaging local citizens (WP5) - Approach and Key Messages	Anne Bergmans, Antwerpen University (BE)
12:15	Discussion	All

Lunch (90 minutes)

Session 3: Monitoring strategies (Chair: Bernd Frieg)

14:00	Monitoring During the Operational Period to Provide Further Confidence in the Post-Closure Safety Case: Strategies and Parameters	Matt White, Galson Sciences (UK)
14:20	Derivation of monitoring parameters based on the safety assessment as a contribution for a monitoring concept until closure of a high-level waste GDF	Paul Smith, SAM Ltd. (UK)
14:40	Monitoring Concept Development for a HLW Repository in Germany in Close Relation to the Safety Case	Michael Jobmann, BGETEC (DE)
15:00	Cigéo project: definition of monitoring strategy and application in link with major milestones of development (licensing application, industrial pilot phase...)	Sylvie Voinis, Andra (FR)
15:20	Break (30 minutes)	
15:50	Monitoring programme for the Olkiluoto repository, Finland	Tuomas Pere, Posiva (FI)
16:10	SKB Monitoring Strategy	David Luterkort, SKB (SE)
16:30	Discussion	All

Break (30 minutes)

Session 4: Poster session

17:30	Poster session	
19:00	Cocktail	

DAY 2 – 10 April 2019

Session 5: Citizen stakeholder participation (Chair: Anne Bergmans)

09:00	Building Trust and Improving Safety? A Four-Nation Comparison of Public Participation in Monitoring of Nuclear Waste	Axelle Meyermans, Antwerpen University (BE)
09:20	Trust, mistrust and citizen vigilance in radioactive waste management policies: a historical analysis of four forerunner countries	Markku Lehtonen, Universitat Pompeu Fabra, Barcelona (SP)
09:40	Stakeholder participation in the FoTTRIS project: main insights and experiences	Nele D'Haese, VITO (BE)
10:00	Learning from socio-technical analogues for monitoring of DGD. A comparative perspective on wind power, fracking, carbon capture and storage (CCS) and deep geological nuclear waste disposal	Achim Brunnengräber, Universität Berlin (DE)
10:20	Discussion	All
10:35	Break (25 minutes)	

Session 6: Summaries of Monitoring Technologies (Chair: Juan Carlos Mayor)

11:00	Current state of the art of wireless data transmission systems for repository monitoring	Thomas Schröder, NRG (UK)
11:15	Electric power sourcing of wireless repository monitoring sensors	Esko Strömmer, VTT (FI)
11:30	Overview of optical fiber technologies for radioactive waste disposal site monitoring	Patrice Mégret, University of Mons(BE)
11:45	Geophysical monitoring of high-level radioactive waste repositories	Hansruedi Maurer, ETH Zurich (CH)
12:00	Methodology for qualifying the monitoring components)	Jean-Michel Matray, IRSN (FR)
12:15	Discussion	All
12:30	Lunch (90 minutes)	

Session 7a: Stakeholders roundtable (Chair: Ele Carpenter)		Session 7b: New Developments in Repository Monitoring Technologies (Chair: José Luis García-Siñeriz)		
14:00	How to reveal the underground: through data, over time and in the present?	14:00	Application of ultrasonic techniques for quality assurance of salt concrete engineered barriers: Shape, cracks and delamination	Ernst Niederleithinger, BAM (DE)
		14:20	Rock mechanics monitoring programme at Olkiluoto repository site, Finland	Sophie Haapalehto, Posiva (FI)
		14:40	Non-intrusive geo-electrical ERT monitoring of high-level radioactive waste experiments in Tournemire URL	Bruna De Carvalho, University of Strathclyde (UK)
		15:00	What we can learn from a full-scale demonstration experiment after 4 years of DTS monitoring– the FE experiment	Tobias Vogt, NAGRA (CH)
		15:20	Niches of fiberoptic sensing: from large-strain applications to acoustic emission monitoring	Pavol Stajanca, BAM (DE)
15:40	Break (30 minutes)			

Session 8: Long term integrated monitoring system (Chair: Jan Verstricht)

16:10	WIPP monitoring programme	Amelia Hayes, SANDIA (US)
16:30	Monitoring the Full Scale Emplacement Experiment (FEBEX) over 18 years: lessons learned for future repository monitoring	Florian Kober, NAGRA (CH)
16:50	Lessons learnt after more than 7 years of monitoring the Full-Scale Emplacement Experiment at the Mont Terri URL	Herwig Müller, NAGRA (CH)
17:10	Feedback from more than 20 years of monitoring of underground research laboratory, site and experiments	Emilia Huret, Andra (FR)
17:30	Monitoring programme of geological repository for short lived radioactive waste in Sweden	Magnus Odén, SKB (SE)
17:50	The Long Term Rock Buffer Monitoring (LTRBM) in situ test, assessing under realistic conditions the performances of monitoring devices developed in Modern2020	Pierre Dick, IRSN (FR)
18:10	Discussion	All
18:30	End of Day 2	

DAY 3 – 11 April 2019

Session 9: Decision making process (Chair: Mansueto Morosini)

09:00	Planning for Evaluating and Responding to Monitoring Results, and Use of Monitoring in Decision Making	Matt White, Galson Sciences (UK)
09:20	The IAEA prospective on use of the monitoring programmes in the safe development of geological disposal facilities for radioactive waste	Gerard Bruno, AIEA (AU)
09:40	Passive trust or active mistrust? The Finnish and French approaches to monitoring of radioactive waste repositories	Matti Kojo, University of Tampere (FI)
10:00	Do we need a nuclear steward? Monitoring as task for a long-term governance institution	Peter Hocke, Karlsruhe Institute of Technology (DE)
10:20	Community Modelling making sense of monitoring data	Catharina Landström, Chalmers University of Technology (SE)
10:40	Strategic monitoring- a proposal for the integrative surveillance of complex disposal systems	Thomas Flüeler, ETH Zurich (CH)
11:00	Discussion	All
11:20	Break (30 minutes)	

Session 10: Closing session (Chair: Johan Bertrand)

11:50	Regulatory perspective about monitoring dedicated to geological disposal facilities for radioactive waste (title under development)	Jaakko Leino, STUK (FI) Thomas van Stiphout, ENSI (CH)
12:15	Rapporteur on Strategies and Technologies	Frank Hansen, independent (US)
12:30	Rapporteur on Stakeholder involvement	Peter Simmons, University of East Anglia (UK)
12:45	Rapporteur on the overall Modern2020 conference	Piet Zuidema, Zuidema Consult GmbH (CH)
13:15	Closure of the meeting	Johan Bertrand, Andra (FR)
13:30	End of Day 3	