

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 & 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
12:30	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
17:00	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 Fotrris 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 Fibreoptic 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	Continuous Monitoring at the Waste Isolation Pilot Plant	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	Difficulties of Monitoring in the Rock Formations	Vsevolod Igin, NORAO (RU)
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	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	