

ANNUAL EVENT

Date: March 16th to March 18th

Link for registration:

https://docs.google.com/forms/d/e/1FAIpQLSdliZ7lvKSG_LZCUJGN_I868hvYBmrZpyLFTYutAWAnNLF4Kw/viewform?usp=sf_link

Day 1 – Tuesday 16 th March	
Introduction	
09.00-09.15	Welcoming
Plenary Session – Science supporting implementation	
09.15-09.30	Key characteristics of deep geological repositories and what the implementation of the EURAD vision will offer Piet Zuidema, EURAD Chief Scientific Officer
09.30-10.50	What will the implementation require? Cherry Tweed, RWM Johan Andersson, Senior Advisor Dirk Bosbach, JUELICH Christophe Debayle, IRSN
Break – 15 min	
11.05-12.00	Priorities and vision of the EC regarding research on radioactive waste management (provisional title) Rosalinde Van der Vlies, Directorate-General for Research and Innovation, European Commission EURAD : integrated science for deep radioactive waste repositories Pierre Toulhoat, Chair of EURAD External Advisory Board
12.00-12.20	The EURAD Roadmap: A generic roadmap for implementing radioactive waste management, leading to geological disposal Tara Beattie, PMO

Day 2 – Wednesday 17th March		
Parallel breakout sessions – Cross-cutting work in EURAD		
09.00-12.00	<ul style="list-style-type: none"> - Influences of organics and other wastes on redox and RN transport processes in geological disposal facilities in different programmes (WPs CORI, FUTURE, ROUTES and KM) - Thermal consequences and uncertainties in a geological repository (WPs UMAN, HITEC, SFC and KM) - Repository-induced coupled processes: understanding, integration & numerical challenges (WPs ACED, DONUT, HITEC, GAS, KM) 	
School of RWM, Mobility and PhDs / post-docs presentations		
14.00-14.20	Presentation of School of RWM	Michèle Coeck and Niels Belmans (SCK-CEN- Training and Mobility)
14.20-14.40	1st Mobility : Pore-scale modelling of ion diffusion in variably saturated clays	Yuankai Yang (FZJ-DONUT)
14.40-15.40	<p style="text-align: center;">Scientific highlights on PhD-level</p> <p>« Validation and uncertainty analyses of SNF decay heat calculations based on SCALE code system » – Ahmed Shama</p> <p>"Sorption of low molecular weight organics on the main hydrated cement paste phases and CEM I" – Rosa Ester Guidone</p> <p>« Coupled HM effects induced by gas injection and transport processes - modelling and validation against experiments » - Michael Pitz</p> <p>"Investigations on Np interaction with Fe containing minerals applying in situ high-energy resolution X-Ray emission/absorption spectroscopy" - Bianca Schacherl</p> <p>"Nuclear Glass-Iron-Claystone interactions : characterizations of a long-term mockup experiment" - Alexis Delanoe</p> <p>"Observation of water transport in a swelling material using X-ray tomography and 4D image analysis" - Janne Yliharju</p>	<p>Ahmed Shama (NAGRA-SFC)</p> <p>Rosa Ester Guidone (EMPA and KIT-CORI)</p> <p>Michael Pitz (BGR-GAS)</p> <p>Bianca Schacherl (KIT – FUTURE)</p> <p>Alexis DELANOE (CEA-ACED)</p> <p>Janne Yliharju (UJyväskylä-HITEC)</p>
15.40-16.00	Debate with the students	

Day 3 - Thursday 18 th March		
Plenary Session – Spotlight on cutting-edge science from across EURAD WPs		
09.00-09.10	Neutrons as a signature for the characterisation of spent nuclear fuel	Peter Schillebeeckx (JRC-SFC)
09.10-09.20	Development of Machine learning techniques for the modelling coupled processes	Nikolaos Prasianakis (PSI-DONUT)
09.20-09.30	New insights into radionuclide-cement-organic interactions	Tiziana Missana (CIEMAT-CORI)
09.30-09.40	Beyond the management of known scientific and technical unknowns	Frank Lemy (Bel V- UMAN)
09.40-09.50	Modelling the impact of gas migration in the near field: which consequences on damage?	Gilles Corman (Université de Liège - GAS)
09.50-10.00	Cutting edge synchrotron based characterization of RN retention	Rainer Daehn et al. (PSI - FUTURE)
Break – 10 min		
10.10-10.20	A new CASH+ solid solution model for cation uptake in C-S-H up to 100 C	Dan Miron (PSI - ACED)
10.20-10.30	Lessons learnt from waste management sharing experiences : from pre-disposal to disposal	Marja VUORIO (COVRA-ROUTES)
10.30-10.40	Crack Self-sealing in Callovo-Oxfordian Claystone Monitored With Multimodal X-Ray and Neutron Tomography	Pierre Besuelle (UGrenoble - HITEC)
Findings from the breakout sessions and conclusion		
10.45-12.00	Findings from the breakout sessions	Rapporteur by each breakout session
12.00-12.30	Conclusion	Piet Zuidema, EURAD Chief Scientific Officer