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>

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| **Day 1 – Tuesday 16th 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, RWMJohan Andersson, Senior AdvisorDirk Bosbach, JUELICHChristophe Debayle, IRSN |
| Break – 15 min  |
| 11.05-12.00 | **Priorities and vision of the EC regarding research on radiaoctive waste management (provisional title)**Rosalinde Van der Vlies, [Directorate-General for Research and Innovation](https://op.europa.eu/en/web/who-is-who/organization/-/organization/RTD/RTD), 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 |

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| **Day 2 – Wednesday 17th March**  |
| **Parallel breakout sessions – Cross-cutting work in EURAD** |
| 09.00-12.00 | * 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)
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| **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 | **Scientific highlights on PhD-level** « Validation and uncertainty analyses of SNF decay heat calculations based on SCALE code system » – Ahmed Shama''Sorption of low molecular weight organics on the main hydrated cement paste phases and CEM I'' – Rosa Ester Guidone« Coupled HM effects induced by gas injection and transport processes - modelling and validation against experiments » - Michael Pitz“Investigations on Np interaction with Fe containing minerals applying in situ high-energy resolution X-Ray emission/absorption spectroscopy” - Bianca Schacherl“Nuclear Glass-Iron-Claystone interactions : characterizations of a long-term mockup experiment” - Alexis Delanoe“Observation of water transport in a swelling material using X-ray tomography and 4D image analysis” - Janne Yliharju | Ahmed Shama (NAGRA-SFC)Rosa Ester Guidone (EMPA and KIT–CORI)Michael Pitz (BGR-GAS)Bianca Schacherl (KIT –FUTURE)Alexis DELANOE (CEA-ACED)Janne Yliharju (UJyväskylä-HITEC) |
| 15.40-16.00 | **Debate with the students** |

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| **Day 3 - Thursday 18th 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 |