

MOBILITY MISSION REPORT

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MISSION TITLE

EURAD's final annual event_Drtinová


DESCRIPTION

Concerned organisations

- Research entities
- Technical support organisations
- Waste management organisations

Concerned infrastructures or facilities

Concerned phases

- Phase 0: Policy, framework and programme establishment
 - Phase 1: Site evaluation and site selection
 - Phase 2: Site characterisation
 - Phase 3: Facility construction
 - Phase 4: Facility operation and closure
 - Phase 5: Post-closure
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Themes and topics

- Theme 1: Managing implementation and oversight of a radioactive waste management programme
 - Programme planning
 - Organisation
 - Resources
- Theme 2: Radioactive waste characterisation, processing and storage (Pre-disposal activities), and source term understanding for disposal
 - Waste handling, characterisation, treatment and packaging
 - Interim storage
 - Transportation between facilities
 - Radionuclide inventory and source term
 - Waste acceptance criteria
- Theme 3: Engineered barrier system (EBS) properties, function and long-term performance
 - Spent Fuel and high-level waste disposal canisters
 - Containers for long-lived intermediate and low level wastes
 - Clay-based backfills, plugs and seals
 - Cementitious-based backfills, plugs and seals
 - Salt backfills
 - EBS system understanding
- Theme 4: Geoscience to understand rock properties, radionuclide transport and long-term geological evolution
 - Long-term stability (uplift, erosion and tectonics)
 - Perturbations (gas, temperature and chemistry)
 - Aqueous pathways and radionuclide migration
- Theme 5: Geological disposal facility design and the practicalities of construction, operations and closure
 - Facility and disposal system design
 - Constructability, demonstration and verification testing
 - Health and safety during transport, construction, operations and closure
 - Monitoring and retrievability
- Theme 6: Siting and Licensing
 - Site selection process
 - Detailed site investigation
 - Licensing
- Theme 7: Performance assessment, safety case development, and safety analyses
 - Integration of safety-related information
 - Performance assessment and system models
 - Treatment of uncertainties

Keywords

EXECUTIVE SUMMARY

On April 23-25, 2024, I participated in the final meeting of the EURAD project, as a member of the WP3 CORI team. During the entire stay, I intensively discussed the results

achieved within WP3 CORI and got acquainted with the most interesting outputs of the entire project.

Unfortunately, I didn't present the planned poster in the end. At the time when it was necessary to send the poster for review, I received misleading information that only an overview poster for each WP is preferred. I apologize for this misunderstanding.

1. MISSION BACKGROUND

1.1. R&D background

1.2. Mission objectives

To orient myself in the final findings in the Eurad project, not only in WP3 CORI, in which I participated.

1.3. Mission request

To cover airfare and accommodation expenses to attend the EURAD's final annual event.

1.4. Mission composition

Host organisation

RATEN

Host facility

Mission dates

23 April 2024 – 25 April 2024

2. MAJOR PRACTICES, TECHNIQUES, METHODS, TOOLS OR SYSTEMS OPERATED OR STUDIED

Not applicable.

2.1. Practice, technique, method, tool or system operated or studied during the mission

2.2. Practice, technique, method, tool or system operated or studied during the mission

2.3. Practice, technique, method, tool or system operated or studied during the mission

2.4. Practice, technique, method, tool or system operated or studied during the mission

3. MISSION FINDINGS AND CONCLUSIONS

3.1. Lessons learned and conclusions

During EURAD's final annual event, I again had the opportunity to meet colleagues from WP3 CORI, which was very beneficial and pleasant. Our expert discussions concerned the issue of sorption behavior of radionuclides on cement materials in the presence of organic substances. We also evaluated the EURAD project in terms of benefits for the students involved. In our (Czech) environment, the opportunity to participate in an internship at a foreign workplace is even a very important factor for choosing a given topic for the assignment of a final thesis, master's or doctoral. Ultimately, this choice helps keep young scientists engaged in topics related to the backend of the fuel cycle.

I also participated in many discussions outside of WP3 CORI, the issue of bentonite is particularly close to me.

3.2. Relevant findings and conclusions for home organisation

The final event was very successful from my point of view. 19 representatives of various organizations gathered from the Czech Republic, and general discussions took place between WMO, RE and TSO at this level too.

3.3. Relevant findings and conclusions for host organisation

3.4. Relevant findings and conclusions for other organisations

4. POTENTIALS FOR IMPROVEMENT OR DEVELOPMENT

- 4.1. Generic potentials
- 4.2. Potentials for home organisation
- 4.3. Potentials for host organisation

APPENDICES

Mission journal

Monday 22 April – flight to Bucharest (11:15-12:05 Prague Vienna, 15:35-17:10 Vienna Bucharest)

Tuesday 23 April – EURAD's final annual event Day 1 – I participated the whole day

Wednesday 24 April – EURAD's final annual event Day 2 – I participated the whole day

Thursday 25 April – EURAD's final annual event Day 3 – I participated till 15:00

– flight to Prague (18:05-19:45 Bucharest Vienna, 21:00-21:50 Vienna Prague)

MISSION BENEFICIARY

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PARTNER EXPERTS CONTRIBUTING TO THE MISSION

Host organisation experts

Home organisation experts

Other organisations experts

REPORT APPROVAL

Date	Beneficiary	Home mentor/supervisor	Host mentor/supervisor
19 May 2024	Barbora Drtinová	Name	Name
		Visa	Visa