

MOBILITY MISSION REPORT

This work has been partially supported by the EURAD project that has received funding from H2020-EURATOM 1.2 under grant agreement ID 847593.

The information included in this mission report consists of personal data of applicants, and in the frame of GDPR we ask you place emphasis on its integrity: the personal data in this mission report cannot be used for purposes other than the evaluation and the management of EURAD Mobility Programme. For the avoidance of doubt, this information – out of its nature – is confidential information as mentioned in Article 10.1 of the EURAD Consortium Agreement Version [17/09/2019] with effective date of 1 June 2019 (although it might not be explicitly marked as such).

KLIKNETE NEBO KLEPNETE SEM A ZADEJTE TEXT.

MISSION TITLE

Conference Attendance

DESCRIPTION

Concerned organisations

10th FEMS Congress of European Microbiologists

- Association for General and Applied Microbiology (VAAM)
- German Society of Hygiene and Microbiology

Concerned infrastructures or facilities

Klikněte nebo klepněte sem a zadejte text.

Concerned phases

Klikněte nebo klepněte sem a zadejte text.

Themes and topics

Theme 3: Engineered barrier system (EBS) properties, function and long-term performance

o Spent Fuel and high-level waste disposal canisters

• Clay-based backfills, plugs and seals

Keywords

DGR; Compacted bentonite; Microbial diversity; Radioactive waste; Copper MIC

EXECUTIVE SUMMARY

The proposed activity was to attend and to participate in the 10th FEMS Congress of European Microbiologists. The congress took place in Hamburg (Germany) from July 9 – 13th, 2023. The event was dedicated to showcasing the latest developments in microbiology and connect to microbiologists from all over the world. FEMS2023 is the biggest event in Europe dedicated to showcasting the latest developments across the broad scope of microbiology including microbial ecology and impact of microbial processes in different topic including the microbiology related to the DGRs.

The poster titled 'Copper Corrosion and Microbial Community Shifts in Compacted Bentonite: in View of a Safe Deep Geological Repository of Radioactive Waste' aimed to update the audience on the latest research regarding the microbiology of Spanish bentonite in the context of a Deep Geological Repository. The presentation strived to deepen the audience's understanding of this important topic.

In addition, the presence of companies related to the sector helped to update new materials and methodologies carried out in microbiology research.



1. MISSION BACKGROUND

Klikněte nebo klepněte sem a zadejte text.

1.1. R&D background

The proposed activity is the attendance and participation in the 10th FEMS Congress of European Microbiologists. The congress took place in Hamburg (Germany) from July 9 – 13th, 2023. The event is dedicated to showcasing the latest developments in microbiology and connect to microbiologists from all over the world.

FEMS2023 (https://www.fems2023.org/) is the biggest event in Europe dedicated to showcasing the latest developments across the broad scope of microbiology including microbial ecology and impact of microbial processes in different topics including the microbiology of deep geological disposal of radioactive wastes. It presents a valuable opportunity to showcase the research in this field to a related audience, such as researches in the field of microbiology, and raise awareness for the importance of this work.

1.2. Mission objectives

The presentation titled 'Copper Corrosion and Microbial Community Shifts in Compacted Bentonite: in View of a Safe Deep Geological Repository of Radioactive Waste' aims to update the audience on the latest research regarding the microbiology of Spanish bentonite in the context of a Deep Geological Repository. The presentation strives to deepen the audience's understanding of this important topic.

1.3. Mission request

Conference Attendance

1.4. Mission composition

Host organisation

Federation of European Microbiological Societies (FEMS)

- Association for General and Applied Microbiology (VAAM)
- German Society of Hygiene and Microbiology.

Host facility

CCH – Congress Center Hamburg.

Hamburg (Germany).

Mission dates

9 – 13 July 2023



MOBILITY MISSION REPORT



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

Klikněte nebo klepněte sem a zadejte text.

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

Klikněte nebo klepněte sem a zadejte text.

Description

Klikněte nebo klepněte sem a zadejte text.

Usage

Klikněte nebo klepněte sem a zadejte text.

Benefits

Klikněte nebo klepněte sem a zadejte text.

Limitations

Klikněte nebo klepněte sem a zadejte text.

Applicability

Klikněte nebo klepněte sem a zadejte text.

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

Klikněte nebo klepněte sem a zadejte text.

Description

Klikněte nebo klepněte sem a zadejte text.

Usage

Klikněte nebo klepněte sem a zadejte text.

Benefits

Klikněte nebo klepněte sem a zadejte text.

Limitations





Klikněte nebo klepněte sem a zadejte text.

Applicability

Klikněte nebo klepněte sem a zadejte text.

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

Klikněte nebo klepněte sem a zadejte text.

Description

Klikněte nebo klepněte sem a zadejte text.

Usage

Klikněte nebo klepněte sem a zadejte text.

Benefits

Klikněte nebo klepněte sem a zadejte text.

Limitations

Klikněte nebo klepněte sem a zadejte text.

Applicability

Klikněte nebo klepněte sem a zadejte text.

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

Klikněte nebo klepněte sem a zadejte text.

Description

Klikněte nebo klepněte sem a zadejte text.

Usage

Klikněte nebo klepněte sem a zadejte text.

Benefits



Limitations

Klikněte nebo klepněte sem a zadejte text.

Applicability



3. MISSION FINDINGS AND CONCLUSIONS

Klikněte nebo klepněte sem a zadejte text.

3.1. Lessons learned and conclusions

Klikněte nebo klepněte sem a zadejte text.

3.2. Relevant findings and conclusions for home organisation

Klikněte nebo klepněte sem a zadejte text.

3.3. Relevant findings and conclusions for host organisation

Klikněte nebo klepněte sem a zadejte text.

3.4. Relevant findings and conclusions for other organisations



4. POTENTIALS FOR IMPROVEMENT OR DEVELOPMENT

Klikněte nebo klepněte sem a zadejte text.

4.1. Generic potentials

Klikněte nebo klepněte sem a zadejte text.

4.2. Potentials for home organisation

Klikněte nebo klepněte sem a zadejte text.

4.3. Potentials for host organisation



4

APPENDICES

Mission journal

Daily attendance (from July 9 to 13th) to the talks and activities organized by the FEMS 2023 conference.

On July 12th, the poster networking session took place (congress topic: Environmental Microbiology and Ecology). Here the exhibition of the poster was held, and doubts of the interested public were resolved.

Mission bibliography

Martinez-Moreno, Marcos F.*; Povedano-Priego, Cristina; Morales-Hidalgo, Mar; Mumford, Adam; Ojeda, Jesus J., Jroundi, Fadwa; Merroun, Mohamed L. (July 9th – 13th, 2023). Copper corrosion and microbial communities shifts in compacted bentonite: in view of a safe Deep Geological Repository of radioactive waste. [Poster]. FEMS2023. Hamburgo (Germany).



MISSION BENEFICIARY

Marcos Felipe Martínez Moreno PhD student. Department of Microbiology, Faculty of Science. University of Granada, Granada, Spain.

PARTNER EXPERTS CONTRIBUTING TO THE MISSION

Host organisation experts

Klikněte nebo klepněte sem a zadejte text.

Home organisation experts

Communication participants (position between brackets):

> Department of Microbiology, University of Granada, Granada, Spain

- Cristina Povedano-Priego (Dr)
- Mar Morales-Hidalgo (PhD student)
- Fadwa Jroundi (Dr Assistant Prof)
- Mohamed L. Merroun (Dr Full Prof)

Other organisations experts

Communication participants (position in parentheses):

> Department of Chemical Engineering, Swansea University, Swansea, United Kingdom

- Adam D. Mumford (PhD student)
- Jesus J. Ojeda (Dr Associate Prof)

REPORT APPROVAL

Date	Beneficiary	Home mentor/supervisor	Host mentor/supervisor
04_09_2022	Marcos F. Martínez Moreno	Mohamed L Merroun	Klikněte nebo klepněte sem a zadejte text.
	Visa	Visa –	

MOBILITY MISSION REPORT

