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LUCOEX

Conference and workshop

Full-scale demonstration tests in technology development of repositories for disposal of radioactive waste

June 2nd – 4th, 2015
Oskarshamn, Sweden

The conference aims to cover all aspects of how to accomplish full-scale demonstration tests of repository concepts for the disposal of radioactive waste. Based on the experiences and challenges from the LUCOEX project the conference will focus on planning, excavation of tunnels/drifts, manufacturing of components and installation equipment, installation techniques, instrumentation/monitoring and workers safety.

Opportunity will be given to present plans and results from other projects/programmes.

Further information is available on <http://www.lucoex.eu/conference>

Key deadlines:

- Submission of extended abstracts February 27th, 2015
- Notification of acceptance of oral/poster presentation March 10th, 2015
- Final Conference programme March, 2015
- Scholarship application April 15th, 2015
- Registration May 15th, 2015

The LUCOEX-project

LUCOEX aims to demonstrate the overall feasibility of construction, component manufacturing and sealing of underground repositories for high-level radioactive waste. This has been done through four full-scale demonstrators performed in four different underground research laboratories in Europe. The project covers disposal concepts in both clay and crystalline rock.

A lot of experiences have been gained from the full-scale demonstration tests. Lessons learned and results from the four demonstrations will be presented as well as how they fit into the different national programmes.

Main topics

1. National SF/HLW disposal programmes

– Status and plans including when and how full-scale demonstration tests are needed for the technical development in the programmes

- a) Geological disposal programmes in crystalline rock
- b) Geological disposal programmes in clay formations

2. Full-scale demonstration tests

– Lessons learned from planning and installation activities

- a) Planning
- b) Installation (equipment and methodology, etc.)
- c) Workers safety
- d) Instrumentation, monitoring and results

3. Excavation in crystalline rock and clay formations

– Lessons learned from different excavation techniques

- a) Drill and blast technique
- b) Tunnel boring technique

4. Production of bentonite blocks and granulates

– Lessons learned from different production techniques and quality aspects

- a) Pressing technique
- b) Quality Assurance (QA)/ Quality Control (QC)

5. Presentations from organisations with less-advanced programmes

– Presentation of preliminary ideas or concepts in less-advanced programmes and exchange of views and discussions from an expert panel around specific questions related to concept development.

A visit to SKB's Äspö Hard Rock Laboratory will be arranged on June 4th, 2015.

Registration, submissions of abstracts and instructions for hotel bookings at www.lucoex.eu/conference

Venue: Forum Oskarshamn, Södra Långgatan 15, Oskarshamn, SWEDEN

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