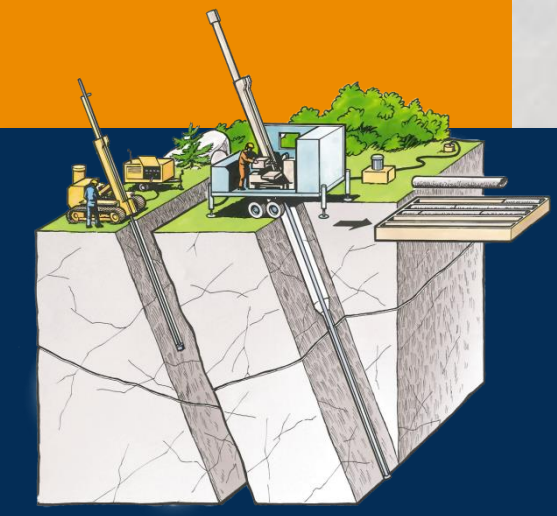
School of Geological Disposal

Siting and site investigations of a geological repository for nuclear waste

Östhammar, Sweden

June 1 - 5, 2020

SKB International and SKB are delighted to once again offer a training course covering important issues governing a national nuclear waste disposal programme.



You are hereby invited to participate in a five-day training course at SKB´s office in Östhammar, which is located close to SKB´s chosen site for the Repository for spent nuclear fuel and the existing Final Repository for Short-lived Radioactive Waste (SFR).

The overall objective of the training course is to provide participants with an understanding on how to acquire the relevant knowledge needed to plan and execute a site selection and site investigation programme for a geological nuclear waste repository.

Based on the experiences gained by SKB during the past 40 years the course will present the planning and execution of a successful programme. The starting point being a strategic and graded approach from both a technical and societal perspective starting with national studies, base requirements, safety functions, conceptual design via feasibility studies and site investigations, updated requirements, safety assessment and repository design to site selection including the licensing process.

The course is given by senior experts from SKB, many with world renowned reputation in their field, and will cover the relevant topics regarding siting and site investigations. The course programme will launch from the strategy of a siting process and the fundamentals needed for a site selection of a geological repository for nuclear waste or spent nuclear fuel. We will present SKB's experiences and knowledge based on the stepwise siting process, transparency in the programme and communication with stakeholders and share experiences gained from success as well from failures. The lectures and discussions will provide extensive, profound information coupled to cutting edge applications when applicable. We aim to transfer theoretical knowledge and practical experience to the course participants efficiently and effectively all in an informal and inclusive atmosphere encouraging open discussions and networking.

Attendants will obtain course material (English), information material about SKB, and general information about Östhammar such as map, tourist information, etc. during the welcome reception to further enhance the positive experience of the course.

Additional course details and a registration form is available at www.skb.se/sgd2020

Further information contact:
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SKB International AB

School of Geological Disposal

Siting and site investigations of a geological repository for nuclear waste

When:	June 1-5, 2020
Time:	One full workweek, 08:00-17:00
Location:	SKB´s office in Östhammar, accommodation in Öregrund
Price:	€4000, including lunches & local transport, one dinner
Registration:	Information available at www.skb.se/sgd2020

Areas to be covered

- General information and roadmap of the School of Geological Disposal.
- Introduction
  - ✓ Potential siting environments and repository concepts
  - ✓ The Swedish system (KBS-3)
  - ✓ Other concepts
  - ✓ Stakeholders
  - ✓ Iteration
- Requirements
  - ✓ Post closure safety
  - ✓ Engineering and Design
  - ✓ Potential for Investigations
  - ✓ Societal requirements
  - ✓ Unsuitable factors
  - ✓ Favourable factors
- Siting steps
  - ✓ National studies
  - ✓ Feasibility studies
  - ✓ Surface based investigations (incl boreholes drilled from surface)
  - ✓ Underground characterisations
- Site investigations
  - ✓ Strategy
  - ✓ Surface investigations
  - ✓ Borehole investigations
  - ✓ Monitoring
  - ✓ Site Descriptive Model (SDM)
  - ✓ Databases and data handling (QA/QC)
  - ✓ Organisation
- Site selection
  - ✓ Safety assessment
  - ✓ Repository design
  - ✓ Licensing
- Communication with stakeholders
  - ✓ Strategy
  - ✓ Authorities
  - ✓ Municipallity
  - ✓ Local residents
  - ✓ NGO´s
  - ✓ Compensation (is it needed and if so how?)

Participant profile:

Employees in waste management organisations, regulators and supporting technical organisations with a few years of experience in safety assessment, engineered barrier development, repository design and/or communication.

Study visits to:

- Forsmark site
  - ✓ Overview
  - ✓ Drill sites
  - ✓ Monitoring
  - ✓ Water chemistry laboratory
- Final Repository for Short-lived Radioactive Waste, SFR
- Demonstration of site investigation equipment

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