

Session Program

9-12 Jun 2026

DFN Modelling Workshop for Nuclear Waste Repositories - 9th - 12th of June 2026

Presentations

Sweden, Uppsala Universitet, Ångströmlaboratoriet, 2003 Lärosal
Regementsvägen 10, 752 37 Uppsala

Tuesday 9 June

10:00

Presentations: Morning

Session |

Location: Sweden, Uppsala Universitet, Ångströmlaboratoriet, 2003 Lärosal, Regementsvägen 10, 752 37 Uppsala

Convener: Nikolas Ovaskainen

10:00–10:15 **Welcome and introduction**

10:15–10:35

Fracture Orientation Uncertainty is Your Friend! (Provided it is Thoroughly Evaluated)

Speaker

Martin Stigsson

Location

Sweden, Uppsala Universitet, Ångströmlaboratoriet, 2003 Lärosal, Regementsvägen 10, 752 37 Uppsala

10:35–10:55

Challenges of DFN Generation in Complex Geological Models: The Äspö HRL Example

Speaker

Anne Gehrke

Location

Sweden, Uppsala Universitet, Ångströmlaboratoriet, 2003 Lärosal, Regementsvägen 10, 752 37 Uppsala

10:55–11:15

Evaluating DFN Generation Methods for Fracture Network Topology in Crystalline Rock

Speaker

Dr Sarah Weihmann

11:15–11:45 **Coffee break**

11:45–12:05

FracLab: A Robust 3D DFN Generator for Coupled Process Modelling for Fractured Media

Speaker

Chuanyin Jiang

Location

Sweden, Uppsala Universitet, Ångströmlaboratoriet, 2003 Lärosal, Regementsvägen 10, 752 37 Uppsala

12:05–12:25 **Hydro-mechanical coupling in deposition tunnels**

Speaker

Brandon Stock

Location

Sweden, Uppsala Universitet, Ångströmlaboratoriet, 2003 Lärosal, Regementsvägen 10, 752 37 Uppsala

12:25–12:45

Fracture Trace-Constrained Conditional Simulation for 3D Fracture Network Extrapolation: Application to Nuclear Waste Repository Development

13:00	<p>Speaker Chuanyin Jiang</p> <p>Location Sweden, Uppsala Universitet, Ångströmlaboratoriet, 2003 Lärosal, Regementsvägen 10, 752 37 Uppsala</p>
14:15	<p>Presentations: Afternoon</p> <p>Session </p> <p>Location: Sweden, Uppsala Universitet, Ångströmlaboratoriet, 2003 Lärosal, Regementsvägen 10, 752 37 Uppsala</p> <p>Convener: Nikolas Ovaskainen</p>
	<p style="background-color: #e1f5fe; border-radius: 10px; padding: 2px 5px; display: inline-block;">14:15-14:35</p> <p>Numerical simulation of damage evolution around the PF/PF-A experiment borehole in faulted Opalinus Clay</p> <p>Speaker Muhammad Raharsya Andiva</p>
	<p style="background-color: #e1f5fe; border-radius: 10px; padding: 2px 5px; display: inline-block;">14:35-14:55</p> <p>From classical DFN flow problems to coupled thermal-hydrological and transport challenges</p> <p>Speaker Andrew Frampton</p>
15:35	<p style="background-color: #e1f5fe; border-radius: 10px; padding: 2px 5px; display: inline-block;">14:55-15:15</p> <p>Hydraulic Fracturing by Supercritical CO2 Injection Considering Rock Microstructure</p> <p>Speaker Weihong Yuan</p>

Thursday 11 June

10:00

Presentations: Presentations

Session |**Location:** Sweden, Uppsala Universitet, Ångströmlaboratoriet, 2003 Lärosal, Regementsvägen 10, 752 37 Uppsala**Convener:** Nikolas Ovaskainen

10:00–10:20

Input Data for DFN Modelling: Research Data and Deterministic Modelling**Speaker**

Antti Joutsen

10:20–10:40

From fracture data to DFN for the Safety Case**Speaker**

Antti Poteri

10:40–11:10

Coffee break

11:10–12:10

Bridging DFN and impact of operational phase modelling**Speaker**

Virve Iisalmi

12:10