





Topic "Managing Risks, Sustainability and Innovation in Rock Tunnelling"

9th - 10th May 2025

Stockholm, Sweden

Friday, the 9th May 2025:

Session 1: Advanced risk management in tunnel construction

08:45 – 09:00: 09:00 – 09:45:	Opening Specificities of underground works – geological and hydrogeological uncertainties /Håkan Stille, Johan Spross/
09:45 – 10:30	Risk management approach and assessment principles /Elena Chiriotti/
10:30 – 10:45:	Coffee Break
10:45 – 11:00:	Application in conventional tunnelling – case studies /Etienne Garin/
11:00 – 11:45:	Contractual management of risks – reference documents /Johan Spross, Gösta Ericson/
11:45 – 12:30:	Q&A

Session 2: Sustainable underground

14:00 – 14:45:	Global and local environmental impacts of the tunnelling activity /Tommy Olsen/
14:45 – 15:30:	Carbon footprint evaluation and carbon emission reduction /Katarina Malaga/
15:30 – 15:45:	Coffee break
15:45 – 16:30:	Resource efficient tunnelling - groundwater and excavated material management /Robert Galler/
16:30 – 17:15:	Rock fracture grouting for minimizing environmental impact /Mikael Creütz/
17:15 – 18:00:	Q&A







Saturday, the 10th May 2025:

Session 3: From the concept to the construction : the progressive approach in difficult ground conditions

09:00 – 09:45:	The different phases in progressive project design /Fredrik Johansson, Björn Stille/
09:45 – 10:30:	Specific investigations in difficult ground conditions and choice of the tunnelling method /Laurence Delplace/
10:30 – 10:45:	Coffee break
10:45 – 11:30:	BIM as a tool for handling uncertainties in difficult ground conditions /Mats Svensson/
11:30 – 12:15:	How to prepare the conditions for a proper monitoring and asset management /Jeanne Doreau/
12:15 – 13:00	Q&A

Session 4: The future of engineering : smart technologies and innovative approaches

14:00 – 14:45:	Smart systems and smart monitoring in tunnelling /Werner Lienhart/
14:45 – 15:30:	Worksite management and useful tools /Frida Isaksson/
<i>15:30 – 15:45</i> :	Coffee break
15:45 – 16:30:	Structural inspections and new robotics applications /Nikolaos Petropoulos, Jan Nyqvist/
16:30 – 17:15:	Perspectives on AI in design and construction /Peter Burman/
17:15 – 18:00:	Q&A - Closing remarks