

Day 1:

Session 1: General overview

08:30 – 09:30: Basic considerations of auxiliary measures

Session 2: Injections

09:30 - 10:30:	Design of injection works in rock
10:30 – 11:00:	Coffee Break
11:00 - 12:00:	Design of injection work in soil
12:00 - 13:00:	Ground improvement for tunnelling projects
13:00 – 14:00:	Lunch
13:00 – 14:00:	Lunch
<i>13:00 - 14:00:</i> 14:00 - 15:00:	Lunch Injection materials

- 16:00 16:30: Coffee Break
- 16:30 17:30: Grouting in fault zones lessons learnt from the Gotthard Base tunnel

Session 2: Drainage

17:30 – 18:30: Design of drainage works

Day 2:

Session 3: Forepoling and face reinforcement

- 08:00 09:00: Forepoling design
- 09:00 10:00: Face reinforcement design
- 10:00 10:30: Coffee break
- 10:30 11:30: Execution and technology
- 11:30 12:30: Case histories
- 12:30 13:30: Lunch

Session 4: Jet Grouting

- 13:30 14:30: Design and application in tunnelling including case histories
- 14:30 15:30: Execution aspects including case histories
- 15:30 16:00: Coffee break

Session 5: Ground Freezing application

- 16:00 17:00: Ground Freezing design and application in tunnelling including case histories
- 17:00 18:00: Execution aspects including case histories
- 18:00 18:30 Discussion and closing remarks