Training session ‘Mechanized Tunnelling’
23-24 March 2015
Venue: to be precised
Santiago – Chile

Objective: this course aims to provide general information to young engineers & to update tunnelling professionals on topics related to Mechanised Tunnelling. The course topics are presented in such a way to build the basic concepts of Mechanized Tunnelling necessary for professionals.

Tentative Programme

Monday 23 March 2015 – Session 1: Introduction & Overview
09.00 – 09.15: Welcome & Opening
09.15 – 09.45: Situation of Mechanised Tunnelling in Chile
09.45 – 10.30: Advantages & disadvantages of Mechanized Tunnelling
10.30 – 11.00: Coffee break
11.00 – 11.45: State of the Art by ITA WG14 animateur
11.45 – 12.30: Selection criteria for TBMs in Long Rock Tunnels Conditions
12.30 – 14.00: Lunch break

Session 2: Improvement & Support systems
14.00 – 14.45: Segmental Lining
14.45 – 15.30: Backfilling Grouting
15.30 – 16.00: Coffee break
16.00 – 16.45: Ground Improvement
16.45 – 17.30: Soil Conditioning & Slurry Operation
17.30 – 18.00: Precast Tunnel Segments with Fiber Reinforced Concrete
18.00 – 18.30: Questions & Answers

24 March 2015 – Session 3: Operation
09.00 – 09.45: Cutting tools
09.45 – 10.30: Face support & Compressed air work
10.30 – 11.00: Coffee break
11.00 – 11.45: Risk & Safety Management
11.45 – 12.30: Environment: Mucking, Water, Chemistry & Noise
12.30 – 14.00: Lunch break

Session 4: Management & Examples
14.00 – 14.45: Tunnel & Site logistics
14.45 – 15.30: Selection of TBMs – Case histories
15.30 – 16.00: Coffee break
16.00 – 16.45: Example 1: Rock tunnelling
16.45 – 17.30: Example 2: Soft Ground tunnelling for Subway
17.30 – 18.00: Questions & Answers – Closing remarks