



Training Session ‘Mechanised Tunnelling’

29-30 June 2015 - Guadalajara City

**Venue: Hotel Riu Plaza Guadalajara
Av. Lopez Mateos N° 830, Fraccionamiento Chapalita
Guadalajara – Jalisco, Mexico**

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.

Monday 29 June 2015

Session 1 : Introduction & Overview

09.00 – 09.10: Welcome & Opening – F. Suarez (Amitos President) & D. Peila (ITA Vice President)
09.10 – 09.30: Situation of tunnelling in Mexico – F. Suarez (Amitos President)
09.30 – 09.45: Brief overview : Why go underground – E. Leca
09.45 – 10.30: Advantages & disadvantages of Mechanized Tunnelling – D. Peila/L. Babendererde
10.30 – 11.00: Coffee break
11.00 – 11.45: Geotechnical & Hydrological investigations prior to the choice of the tunnelling method – E. Leca
11.45 – 12.30: Selection of criteria for TBMs according to the project & the site conditions – L. Babendererde

Session 2 : Improvement & Support systems

12.30 – 13.15: Segmental lining – L. Babendererde
13.15 – 14.45: Lunch break
14.45 – 15.30: Backfilling grouting – D. Peila
15.30 – 16.15: Ground improvement – D. Peila
16.15 – 16.45: Coffee break
16.45 – 17.30: Risk & Safety management – E. Leca
17.30 – 18.00: Questions & Answers

Tuesday 30 June 2015

Session 3: Operation

09.00 – 09.45 : Cutting tools & Cutterhead design – F. Molina - Metzger (Herrenknecht)
09.45 – 10.30 : Chamber access & Compressed air work – G. Siebert (Herrenknecht)
10.30 – 11.00 : Coffee break
11.00 – 11.45 : Soil conditioning – Slurry operation – A. Boscaro (Mapei)
11.45 – 12.30 : Environment : Mucking, Water, Chemistry & Noise – M. Ducrot (Eiffage)

Session 4 : Management & Examples

12.30 – 13.15: Tunnel & Site logistics – G. Siebert (Herrenknecht)
13.15 – 14.45: Lunch break
14.45 – 15.30: Example 1 - Manufacturer on Soft Ground tunneling- F. Molina - Metzger (Herrenknecht)
15.30 – 16.15: Example 2 - Manufacturer on Rock tunnelling – D. Ofiara (Robbins)
16.15 – 16.45: Coffee break
16.45 – 17.30: Example 3 – Dual Mode TBM – D. Ofiara (Robbins)
17.30 – 18.00: Questions & Answers – Closing remarks