



'Tunnelling in Urban Areas'
09 – 11 April 2014
Hanoi Metropolitan Railway Management Board
Directorate for Roads of Vietnam
TON THAT THUYET Street, CAU GIAY District

Final Programme (30.12.2013)

Objective of the course: to present to students & young professionals the design & construction approaches for tunnelling in urban areas.

Wednesday 09 April 2014

Session 1: General

08:30 – 09:00: Welcome & Opening – Objectives of the course
09:00 – 09:30: General aspects of urban tunnelling
09:30 – 10:30: Environmental issues

10:30 – 11:00: Coffee break

Session 2: Tunnelling Methods

11:00 – 12:00: Presentation of the different tunnelling methods
12:00 – 13:00: Choice of the tunnelling methods

13:00 – 14:30: Lunch

Session 3: Mechanized Tunnelling Methods in Soft Ground

14:30 – 15:30: Specificities of mechanized tunnelling in soft ground
15:30 – 16:30: Slurry shield, EPB & Soil Conditioning
16:30 – 17:30: Discussion round table style

Thursday 10 April 2014

Session 4: Design

08:30 – 09:30: Segment lining design for mechanized tunnelling
09:30 – 10:30: Conventional tunnelling in soft & ground reinforcement

10:30 – 11:00: Coffee break

Session 5: Special Aspects

11:00 – 12:00: Risk analysis
12:00 – 13:00: Site investigation

13:00 – 14:30: Lunch

14:30 – 16:00: Monitoring of the surface & of the machine
16:00 – 17:00: Discussion round table style



Friday 11 April 2014

Session 6: Operation & Maintenance

08:30 – 09:30: Safe operation in urban transport tunnels

09:30 – 10:30: Maintenance in urban transport tunnels

10:30 – 11:00: Coffee break

Session 7: Case histories

11:00 – 12:00: Mechanized tunnelling 1)

EPB, Mixed Shield, Multi Modes

12:00 – 13:00: Mechanized tunnelling 2)

13:00 – 14:30 – Lunch

14:30 – 15:00: Ground improvement

15:00 – 16:00: Conventional tunnelling

16:00 – 16:30: Questions/Answers

16:30 – 17:00: Closing

Each 60 minutes-lecture will be divided into 45' presentation & 15' discussion.

31/01/2014