

Safety Operation in Metro and Road Tunnels

Shanghai – 12-13 November 2011 Lecture Hall, Yifu Building, Tongji University.

Objective: to provide an introduction to the safe use and operation of metro and road tunnel systems. The seminar will provide a general overview to be followed by more in-depth sessions on operation (management structure and organization for emergency situations), monitoring technology, fire control (detection, passive and active fire fighting and mitigation) and research (recent research about safety in operation). The seminar aims at Clients, Designers, Consultants and Operators.

Tentative Programme

Day 1

Session 1: General Overview

09.00 – 09.45: Welcome and Opening: ITA and concerned country representatives 09.45 – 10.30: Introduction to safety management and state of regulations – Felix AMBERG 10.30 - 11.00: Coffee break

Session 2: Specific Aspects of Safety of Metro Systems - Niels Peter HOJ and Henry RUSSELL

11.00 – 11.45: Integrated safety analysis for metro systems

Models for probabilistic safety analysis and deterministic scenario analysis Lunch
Technology and technical measures for metro tunnels, stations and rolling stock Structure, management and operation of safety and emergency forces Coffee break
Integration and use of advanced supporting technology (i.e. SCADA systems) Contingency plans for metro systems, Permanent education and training of emergency forces and operators Questions and Answers (to all sessions)

Day 2

Session 3: Specific Aspects of Safety of Road Tunnels – Niels Peter HOJ

- 09.00 09.45: Integrated safety analysis for road tunnels, human behaviour and self rescue 09.45 - 10.30: Models for probabilistic safety analysis and deterministic scenario analysis 10.30 - 11.00: Coffee break 11.00 – 11.45: Technology and technical measures for road tunnels, integration and use of advanced supporting technology 11.45 – 12.30: Structure, management and operation of safety and emergency forces, contingency plans
- 12.30 14.00: Lunch

Session 4: Fire control in Metro and Road Tunnels – Peter REINKE

- 14.00 14.45: Ventilation systems
- 14.45 15.30: Fire detection systems, passive/active fire fighting, fixed fire fighting systems
- 15.30 16.00: Coffee Break

Session 5: Research and Development – Felix AMBERG

16.00 – 16.45: Results of recent R&D projects, tests and their relevance for safety operation 16.45 – 17.30: R&D topics of the future

Session 6: Q&A, Closing remarks

17.30 – 18.00: Questions and Closing Remarks