



Modern Technology in Design, Construction & Operation in Metro & Road Tunnels

9 – 12 November 2012

Conference Center of Shanghai Shen Tong Group Co.

Objective and Scope: The objective is to provide an introduction to the state of the art in design, construction, operation and safety management of metro and road tunnels. The seminar will provide in-depth sessions on tunnel design principles, tunnel construction technology, tunnel operation safety, disaster prevention technology and monitoring technology. The targeted participants are Owners, Contractors, Designers, Consultants, Operators and Government Supervisors.

培训目标: 本培训班主要介绍地铁隧道和公路隧道的现代设计、施工和运营技术与安全管理。培训班将聘请国内外著名专家进行讲座。具体内容有: 隧道最新施工技术、隧道设计原理、隧道运营安全、隧道安全管理、隧道监测技术。本培训班主要面向业主、施工单位、设计单位、咨询与顾问人员、地铁运营公司和政府有关部门。

Tentative Programme

暂定日程

Day 1

第一天

Session 1: Modern tunnelling design methods

第一部分: 现代隧道设计技术 (王振信主讲, 题目可根据王总意见调整)

- 09.00 – 09.45: Design of Tunnels in Soft Soil
软土隧道设计
- 09.45 – 10.30: Design of Deep Foundation in Soft Soil
软土深基坑设计
- 10.30 – 11.00: Coffee break
茶歇

Session 2: Modern tunnelling construction technology

第二部分: 现代隧道施工技术

- 11.00 – 11.45: Construction Technology of Tunnels in Soft Soil(1)
软土隧道施工 (一) (周文波主讲, 题目可根据周总意见调整)
- 11.45 – 12.30: Construction Technology of Tunnels in Soft Soil(2)
软土隧道施工 (二) (周文波主讲, 题目可根据周总意见调整)
- 12.30 – 13.30: Lunch
午餐
- 13.30 – 14.00: Discussion
讨论
- 14.00 – 14.45: Risk Management of Tunnelling in Soft Soil
软土隧道工程风险管理 (黄宏伟主讲, 题目可根据黄教授意见调整)
- 14.45 – 15.30: Case Study (1)
工程案例 (一) (黄宏伟主讲, 题目可根据黄教授意见调整)
- 15.30 – 16.00: Coffee break
茶歇



- 16.00 – 16.45: **Case Study (2)**
工程案例（二）（白云主讲）
- 16.45 – 17.30: **Case Study (3)**
工程案例（三）（白云主讲）
- 17.30 – 18.00: **Questions and Answers**
问答环节

Day 2

第二天

Session 3: Deep Foundation Construction Technology in Soft Soil

第三部分：软土深基坑施工技术

- 09.00 – 09.45: **Deep Foundation Construction (1)**
深基坑施工（一）（杨国祥主讲，题目可根据杨总意见调整）
- 09.45 – 10.30: **Deep Foundation Construction (2)**
深基坑施工（二）（杨国祥主讲，题目可根据杨总意见调整）
- 10.30 – 11.00:
讨论与茶歇
- 11.00 – 11.45: **Case Study (1)**
深基坑案例（一）（刘国彬主讲，题目可根据刘教授意见调整）
- 11.45 – 12.30: **Case Study (2)**
深基坑案例（二）（刘国彬主讲，题目可根据刘教授意见调整）
- 12.30 – 13.30: **Lunch.**
午餐
- 13.30 – 14.00: **Free Discussion**
讨论

Session 4: Design and Construction of Rock Tunnels (ITACET, Prof. A. Assis)

第四部分：岩石隧道设计与施工技术

- 14.00 – 14.45: **Design of Rock Tunnels**
岩石隧道设计
- 14.45 – 15.30: **Construction of Rock Tunnels**
岩石隧道施工
- 15.30 – 16.00: **Coffee break**
讨论和茶歇
- 16.00 – 16.45: **Case Study (1)**
工程案例（一）
- 16.45 – 17.30: **Case Study (2)**
工程案例（二）
- 17.30 – 18.00: **Questions and Answers**
问答环节



Day 3

第三天

Session 5: 最新科研进展 (ITACET, Mr. F. Amberg)

- 9.00 – 09.45: Results of recent R&D projects, tests and their relevance for safety operation
最新科研项目、试验技术成果以及它们与运营安全的关系
- 09.45 – 10.30: R&D topics of the future
未来科研课题
- 10.30 – 11.00: tea break
讨论和茶歇
- 11.00 – 11.45: Technology and technical measures for metro tunnels, stations and rolling stock
地铁隧道、车站和车辆的技术和技术措施介绍
- 11.45 – 12.30: Integration and use of advanced supporting technology (i.e. SCADA systems)
先进配套技术的整合与应用（如监测与数据采集系统）
- 12.30 – 13.30: Lunch
午餐
- 13.30 – 14.00: Structure, management and operation of safety and emergency forces
安全应急队伍的组织结构、管理和运转(王璐璐主讲，题目可根据王总意见调整)
- 14.00 – 15.30: Local speaker
- 15.30 – 16.00: Coffee break
茶歇
- 16.00 – 16.45: Discussion
讨论
- 16.45 – 17.30: Contingency plans for metro systems, Permanent education and training of emergency forces and operators
地铁系统应急预案，应急救援队伍和管理人员的长期培训(王璐璐主讲，题目可根据王总意见调整)
- 17.30 – 18.00: Questions and Answers
问答环节

Day 4

第四天

Session 6: Specific Aspects of Safety of Road Tunnels

第六部分：公路隧道安全专题

- 09.00 – 09.45: Integrated safety analysis for road tunnels, human behaviour and self rescue
公路隧道、人的行为和自救措施的总体安全分析(徐瑞华主讲，题目可根据徐教授意见调整)
- 09.45 – 10.30: Models for probabilistic safety analysis and deterministic scenario analysis
概率安全分析模型和确定性的情景分析方法(徐瑞华主讲，题目可根据徐教授意见调整)
- 10.30 – 11.00: Coffee break
茶歇
- 11.00 – 11.45: Technology and technical measures for road tunnels, integration and use of advanced supporting technology



公路隧道施工技术与措施，先进配套技术的整合与应用(徐瑞华主讲，题目可根据徐教授意见调整)

11.45 – 12.30: Structure, management and operation of safety and emergency forces, contingency plans

安全应急队伍与应急预案的组织结构、管理和运转(徐瑞华主讲，题目可根据徐教授意见调整)

12.30 – 13.30: Lunch
午餐

13.30 – 14.00: Lunch
讨论

Session 7: Fire control

第七部分：防火专题

14.00 – 14.45: Ventilation systems
通风系统（郑晋丽主讲，题目可根据郑总意见调整）

14.45 – 15.30: Fire detection systems, passive/active fire fighting, fixed fire fighting systems
火灾监测系统，主动式/被动式与固定式消防系统（郑晋丽主讲，题目可根据郑总意见调整）

15.30 – 16.00: Coffee Break
讨论和茶歇

Session 8: Research and Development

第八部分： Specific Aspects of Safety of Metro Systems

地铁系统安全专题(徐瑞华主讲，题目可根据徐教授意见调整)

16.00 – 16.45: Integrated safety analysis for metro systems
地铁系统整体安全分析

16.45 – 17.30: Models for probabilistic safety analysis and deterministic scenario analysis
概率安全分析模型和定性场景分析方法

Session 9: Q&A, Closing remarks

第九部分：问答和闭幕致辞

17.30 – 18.00: Questions and Closing Remarks
问答与闭幕致辞