



Società Italiana Gallerie



Conventional Tunnelling and ground reinforcing techniques

Torino 15th-16th of January 2015, Politecnico di Torino - Lingotto Building

Day 1: Thursday 15th January 2015

- 13.00-13.30: Registration
13.30-14.00: Opening Ceremony:
SIG President, ITA President, ITACET Foundation Delegate, Politecnico di Torino Authorities

Session 1: General aspects and main features of conventional tunneling

- 14.00-14.45: General aspects of conventional tunnelling and ground reinforcing applications
14.45-15.30: Conventional tunnelling supports and shotcrete
15.30-15.45: coffee break
15.45-16.30: Risk analysis in tunnelling design
16.30-17.15: Face reinforcements design technologies, design and examples of applications
17.15-18.00: Rock mass and ground consolidation: equipments and examples of applications
18.00-18.15: Discussion
18.15-18.30: Presentation of the new edition of the Master Course in "Tunnelling and Tunnel Boring Machines"

Day 2: Friday 16th January 2015

Session 2: Lesson learnt in relevant conventional tunnelling examples in different soil and rock conditions

- 09.00-09.45: Settlement design in conventional and mechanized tunnelling
09.45-10.15: Tunneling in rock blasting and vibration control: lessons learnt from case histories in Norway
10.15-10.45: Conventional tunnelling in squeezing grounds and complex formations: lessons learnt from the Road Tunnels of the Egnatia Odos Motorway
10.45-11.00: Coffee break
11.00-11.30: Conventional tunnelling in urban areas: lesson learnt from the shallow mined tunnels and caverns of the Metro of Santiago
11.30-12.00: Conventional tunnelling in karstic geology: lesson learnt from the Yiwan Railway Project in China
12.00-12.30: Conventional tunnelling in rock masses in urban areas: lesson learnt from 72nd Street Station, Shafts, Tunnels and Caverns Mega Project – New York City, USA.
12.30-12.45: Discussion
12.45-14.00: Lunch

Training Course
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Session 3: Special examples and innovations

- 14.00-14.30: Example of ground reinforcing techniques in urbanized areas: lessons learnt from portals of the tunnels of the new Genova-Milano railway.
- 14.30-15.00: Grouting technology: lessons learnt from relevant case histories of refurbishment of conventional tunnels
- 15.00-15.30: Grouting technology: lessons learnt from relevant case histories
- 15.30-16.00: Innovation in supporting technologies for conventional tunnelling: Lessons learnt from relevant case histories.
- 16.00-16.30: Conventional excavation of shafts and small tunnels: Lessons learnt from relevant case histories
- 16.30-17.00: Discussion
- 17.00: Closing

Co-organized with



**POLITECNICO
DI TORINO**

Dipartimento di Ingegneria
dell'Ambiente, del Territorio
e delle Infrastrutture

Scientific responsible: Prof. Daniele Peila