



Società Italiana Gallerie



**Società Italiana Gallerie & ITACET Foundation**  
**TRAINING COURSE**  
**Conventional Tunnelling and ground reinforcing techniques**

**Torino 15<sup>th</sup>-16<sup>th</sup> of January 2015**  
**Politecnico di Torino - Lingotto Building**

**First day:** Thursday 15<sup>th</sup> of 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**

Chairman: D. Peila - ITA ExCo Vice-President

14.00-14.45 **General aspects of conventional tunnelling and ground reinforcing applications**

P.G. Grasso - ITACET Foundation Vice President

14.45-15.30 **Conventional tunnelling supports and shotcrete**

T. Celestino – ITA ExCo Vice- President

15.30-15.45 coffee break

15.45-16.30 **Risk analysis in tunnelling design**

S. Eskesen - ITA President

17.15-18.00 **Face reinforcements design technologies, design and examples of applications**

G. Cassani - Rocksoil SpA

16.30-17.15 **Rock mass and ground consolidation: equipments and examples of applications**

D. Vanni - Trevi SpA

18.00-18.15 Discussion

18.15-18.30 **Presentation of the new edition of the Master Course in “Tunnelling and Tunnel Boring Machines”**

Prof. D. Peila – Master Course Coordinator

**Second day:** Friday 16<sup>th</sup> of January 2015

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

Chairman: A. Pigorini, SIG President

9.00-9.45 **Settlement design in conventional and mechanized tunnelling**

E. Leca – ITA ExCo

- 9.45-10.15 **Tunnelling in rock blasting and vibration control: lessons learnt from case histories in Norway**  
Ruth Haug – ITA ExCo
- 10.15-10.45 **Conventional tunnelling in squeezing grounds and complex formations: lessons learnt from the Road Tunnels of the Egnatia Odos Motorway**  
N. Kazilis - ITA ExCo
- 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:**  
A. Gomes– ITA ExCo
- 11.30-12.00 **Conventional tunnelling in karstic geology: lesson learnt from the Yiwan Railway Project in China:**  
Jinxiu (Jenny) Yan – ITA ExCo
- 12.00-12.30 **Conventional tunnelling in rock masses in urban areas: lesson learnt from 72<sup>nd</sup> Street Station, Shafts, Tunnels and Caverns Mega Project – New York City, USA.**  
B. Fulcher - Kenny Construction (USA) & ITA WG vice animateur
- 12.30-12.45 Discussion
- 12.45-14.00 Lunch

### Session 3: Special examples and innovations

Chairman: M. Barbero – Politecnico di Torino

- 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.**  
P. Marcheselli, COCIV
- 14.30-15.00 **Grouting technology: lessons learnt from relevant case histories of refurbishment of conventional tunnels**  
D. Michelis, Mapei UTT
- 15.00-15.30 **Grouting technology: lessons learnt from relevant case histories**  
I. Bridi, BASF The Chemical Company
- 15.30-16.00 **Innovation in supporting technologies for conventional tunnelling: Lessons learnt from relevant case histories.**  
C. L. Zenti, Società Bekaert Maccaferri Underground Solutions.
- 16.00-16.30 **Conventional excavation of shafts and small tunnels: Lessons learnt from relevant case histories**  
Ing. A. Bellone, CIPA Company
- 16.30-17.00 Discussion
- 17.00 Closing of the works

Co-organized with



**POLITECNICO  
DI TORINO**

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

Scientific responsible: Prof. Daniele Peila

# SOCIETA' ITALIANA GALLERIE

## REGISTRATION FORM

### TRAINING COURSE

### "Conventional Tunnelling and ground reinforcing techniques"

Torino 15<sup>th</sup> - 16<sup>th</sup> of January 2015  
Politecnico di Torino – Lingotto Building

(The organization of the course is assigned to the SIG SRL)

Surname and Name.....  
Organization / Company.....  
Cap City .....

Tel .....Cell .....E-mail.....

#### Registration Fees:

Member SIG	€ 250.00	(VAT included and not exposed)
Not a Member	€ 300.00	(VAT included and not exposed)
Graduate students, researchers	€ 150.00	(VAT included and not exposed)
Student	€ 50.00	(VAT included and not exposed)

including: participation in the course, working lunch, coffee break and course materials on magnetic media.

#### Attach:

through bank transfer addressed to: SIG S.r.l. - Via E. Breda n. 28 - 20126 Milano

IBAN: IT45J0200801621000100504079  
BIC SWIFT UNCRITM1221

Unicredit, Ag. 221 - L.go Donegani n. 3 - 20121 Milano-MI- Italy

by paypal on the website : [www.societaitalianagallerie.it](http://www.societaitalianagallerie.it)

#### Invoice to be issued to:

Organization / Company.....

Cap City .....

vat code .....

ANY CANCELLATIONS MUST BE RECEIVED NO LATER THAN **12 January 2015** for the return of 50% of registration fee.

The registration form must be filled directly on web site, or sent by fax or e-mail ( the number of seats is limited to 100 people, and priority will be given to registration order), no later than **12 January 2015** to:

#### SOCIETA' ITALIANA GALLERIE

Via Ernesto Breda n. 28 - 20126 Milan ( I )

Fax: +39 (0) 2 25708152 - Tel + 39 (0) 25715805 - Mobile 335 5452361

E-mail: [segreteria@societaitalianagallerie.it](mailto:segreteria@societaitalianagallerie.it)

The course is total in English – Participants receive a certificate of attendance.

The order of the Piemonte Engineers being has activated for CFP credits.

Pursuant to Legislative Decree 196/2003 on privacy, I authorize you to process the data provided for the management of the course, for listing the participants and for future communications.

Date.....Signature.....

The training event is supported by

