



*Toward better training and education actions*

## NEWSLETTER#25 November 2016

### SUMMARY

President's Address, Eng. Abdullah Al-Mogbel

Events Report: Training session in Argentina, Nepal, Bhutan

Training session coming Soon

Next events in preparation

### President's Address



It is with great pleasure that I invite you to visit the ITACET Foundation's new web site ([www.itacet.org](http://www.itacet.org)).

After several years in operation and various additions along the way, the old site needed to be modernized, to make it more user-friendly and better adapted to the growing activity of the Foundation.

It has therefore been given a full makeover! We hope that this new version will help you to better understand how the Foundation works and will encourage you to organize training actions with us that are tailored to your country's specific needs.

Your opinion matters! Don't hesitate to give us your impressions and inform us of your needs.

Eng. Abdullah Al-Mogbel  
President of the ITACET Foundation

**ABOUT THE ITACET FOUNDATION:** In an industry where technological progress is quickly advancing and where information and training are always required, the ITA-CET Foundation has been set in 2009 by the International Tunnelling and Underground Space Association ITA-AITES as a body for education and training actions.

The Foundation is associated with the ITA-AITES Committee of Education and Training. One of the objectives of the ITA-CET Committee is to prepare the programmes and choose the lecturers for training sessions and short courses organized by the ITACET Foundation.

The training sessions and short courses organized by the Foundation are available for ITA member nations and other interested organizations and companies. Courses' Portfolio and more information are available on [www.itacet.org](http://www.itacet.org)

## Training session coming Soon

### Mechanized Tunnelling in Soft Soil

01 -03 December 2016 - Mexico City



AMITOS is pleased to offer a two-day training session followed by a one-day site visit on the theme of Mechanized Tunnelling in Soft Soil.

This training session will introduce the design and construction approaches for tunnelling in difficult soft soil conditions.

It will provide an overview of all the challenges related to conventional and mechanized techniques, in addition to micro tunnelling and pipe jacking.

Program of the event is available in english and spanish on the itacet website.

### Health & Safety & Logistic in Tunnel Construction

15 - 16 November 2016 - Santiago de Chile



This training aims to provide an introduction to Health and Safety, and Logistics in tunnel construction.

The seminar will provide a general overview to be followed by more in-depth sessions on the hazards and risk associated with specific tunnelling techniques, generic safety and health issues affecting tunnel construction.

Finally, logistics in tunnel construction will be presented focusing on long tunnels as well as tunnel in urban areas.

### Risk Management in Tunnelling

13 - 14 November 2016 - Kuala Lumpur



Introduction to the Risk Management process throughout a project cycle from planning, designing, construction and implementation of a tunnel or underground project with specific focus for Owners and Decision Makers, Consulting Engineers, Contractors and others with an interest in risk management activities

### Mechanized Tunnelling: Challenging Case Histories

01 December 2016 - Rome, Italy



Società Italiana Gallerie  
Italian Tunnelling Society

This one-day training session will provide examples of mechanized tunnelling in challenging conditions, through various case histories from around the globe.

## Events in preparation

**Life Cycle Management of Tunnels** - 14th - 15th September 2016 - Postponed

**Sustainable Tunnelling** - December 2016 - Saudi Arabia, co-organized with MOT - Postponed

**Utility Tunnels** - April 2017 - Chengdu (China), co-organized with CCES

**Event Report:**



**Mechanized Tunnelling in Soft Soil  
September 13th, Buenos Aires, Argentina**

At the occasion of the “6a Jornadas de Tunelería y Espacios Subterráneos”: “Construcción mecanizada de túneles” held in Buenos Aires, 13th to 15th of September, the ITACET Foundation and Argentina Association of Tunnels and Underground Space (AATES) organized a one-day training session on “Mechanized Tunnelling in Soft Soil”.

The aim of the training course was to provide general information to young engineers and to update tunnelling



professionals on topics related to Mechanized Tunnelling.

The training was held in the Auditorium Techint and was attended by over 170 attendees.

ITA-CET Committee delegated four lecturers to the event, Mrs Karin Böppler (D- Herrenknecht), Lars Babendererde (D- Babendererde Engineers), Piergiorgio Grasso (I- GEODATA) and David Terbovic (USA - The Robbins Company)

The training opened with welcoming words from AATES President, Oscar Vardé, highlighting the complexity of Tunnelling projects and consequently the need for higher continuing education in this field.

The first part of the training was devoted to “Main Aspects of Mechanized tunneling”.

The final part was aimed to the question of “Operation & Logistics” that included examples and review of Cases studies.

The training concluded on a lively “question & answers”. Participants enjoyed the course content and the competence and professionalism of the lecturers.

**Risk management and contractual practices  
October 29th, Kathmandu, Nepal**

ITACET Foundation and Nepal Tunnelling Association (NTA) co-organized a one-day training session on ‘Risk management and contractual practices’ in Kathmandu, Nepal.



The ITA-CET committee tasked Dr Dean Brox and Dr. Harald Wagner to prepare the content of the course. The lectures were given by Dr. Dean Brox .

More than 209 participants from Nepal, Bhutan, India and Australia attended this training.

The main objective of this training program was to provide an introduction to risk management process with a general



overview of the contractual practices to train Investors, Engineers and Geologists in field of tunnelling.

The course was also provide clear concept of underground risks, risk identification, risk management, contractual practices, preparation of contract document and concept of risk sharing.

The two main topics of the course were “Risk management concepts” and “Contractual aspects”.

The training was inaugurated by NTA President Dr. Sandip Shah.

NTA distributed token of appreciation to speaker Dean Brox and sponsors. Similarly certificates were distributed to all participants. .

All participants actively participated and expect more such training in near future.

The training was supported by Independent Power Producers' Association, Nepal (IPPAN).



### **Planning & Design in Conventional Tunneling October 17th-18th, Thimphu, Bhutan**

On October 17-18, The ITACET Foundation and Druk Green Power Corporation co-organized a two-day training session in Thimphu Bhutan. This was the second time such event was held in Thimphu.

The aim of the course was to provide planning, design and construction elements to young professionals related to the best practice of tunnel design.



Ill: Participants & lecturers with Lyonpo Dorji Choden, Hon'ble Minister, MoWHS.

The main topics of the training were "Introduction & overview on Tunnel Design", "Specifics aspects of Tunnel Design", "Conventional Tunneling" and "case studies in Conventional Tunnelling".

Her Excellency Lyonpo Dorji Choden, Hon'ble Minister, Ministry of Works & Human Settlement opened the event.

The ITA-CET Committee delegated several international experts, namely Messrs. Paolo Cuccino (I - SWS Engineering SpA), Piergiorgio Grasso (I - Geodata Spà), Emmanuel Humbert (F - CETU - Centre for Tunnel Studies), Paolo Mazzalai (I - SWS Engineering SpA), Alain Poloni (F - Eiffage Infrastructures) and Harald Wagner (AT - Harald Wagner Consulting Engineer) to lecture at this training.

Seventy three participants coming from eight different public and private agencies within Bhutan attended the training.

His Excellency Lyonpo Jigme Zangpo, Hon'ble Speaker, National Assembly of Bhutan concluded the training and awarded the certificates to the participants.

The training was financially supported by Eiffage Infrastructure (F), Ugen Earth Movers, Hindustan Construction Company, Gammon India, Schwing Stetter and ADO additives.

## **IMPRESSUM**

Periodical publication edited by the ITACET Foundation.  
Online version available on [www.itacet.org](http://www.itacet.org)

Editors : Claude Bérenguer, Alexandre Pilloud

ITACET Foundation,  
c/o BG Ingénieurs Conseils SA,  
Avenue de Cour 61,  
1007 Lausanne, Switzerland

Phone:+ 41 (0)21 693 08 67

[www.itacet.org](http://www.itacet.org) - [secretariat@foundation.itacet.org](mailto:secretariat@foundation.itacet.org)