

# COMMON UTILITY TUNNELS

## PLANNING, CONSTRUCTION, MAINTENANCE, REHABILITATION

Sunday 09 – Monday 10 February 2014  
Toaque palace – Diplomatic Quarter – RIYADH (KSA)

### Sunday 09 February

09.00 – 09.15 Welcome and Opening

#### Session 1: Introduction and Overview

09.15 – 09.45 Situation in Saudi Arabia Cities

09.45 – 10.15 Overview of common utility tunnels

10.15 – 10.45 *Coffee Break*

10.45 – 12.00 Characteristics of each major utility type

12.00 – 12.30 *Prayer*

#### Session 2: Creating and identifying opportunities / the decision making

12.30 – 12.50 Advantages and disadvantages of common utility tunnels

12.50 – 13.45 Guidelines for decision making

13.45 – 14.00 Questions and Answers

14.00 *Lunch*

### Monday 10 February

#### Session 3: Design issues

09.00 - 09.30 Person-entry and person-non entry tunnelling in soil and rock

09.30 - 10.00 Detailed design issues for users

10.00 – 10.30 *Coffee break*

10.30 – 11.15 Maintenance and Rehabilitation of Existing Utility Tunnels,  
Operational issues for users management

11.15 - 12.00 Case studies

12.00 - 12.30 *Prayer*

#### Session 4: Construction Technologies for Common Utility Tunnels

12.30 – 12.50 Specific methods and technologies in various ground conditions

13.10 – 13.30 Case studies throughout the world

13.30 – 14.00 Questions, Answers and Closing Remarks

14.00 *Lunch*

More information and detail of each lecture: visit <http://foundation.itacet.org>



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I am very pleased, as Mayor of Riyadh and President of ITACET Foundation for Education and Training, to announce the organisation of a Two-day Seminar on “Planning, Construction, Maintenance and Rehabilitation of Common Utility Tunnels”.

The training course will provide a general overview of the main types of common utility tunnels. It is aimed to all designers, planners and decision maker involved in urban planning and infrastructures.

During the two days of the seminar different methods will be described and explained. The four lecturers delegated by the ITA-AITES itacet committee will present several case studies and will comment their experience working on them.

The course will benefit not only beginners but also already-experienced tunnellers. Open discussion with the participation of the lecturers and local experts will be held, attendees are welcome to bring interesting and challenging cases for discussion.

I extend a heartily welcome to Riyadh to international experts and to all concerned professionals in the Kingdom of Saudi Arabia and the Gulf countries

Eng. Abdullah Al-Mogbel  
Mayor of Riyadh

## Host and Organization

This event is hosted by H.E. Eng. Abdullah Al-Mogbel, Mayor of Riyadh and co-organized by the Riyadh Municipality and the ITACET Foundation.



## Objectives and Development

The main objective of the seminar is to provide an introduction to a new approach of buried networks in urban areas with an emphasis on the great interest of common utility tunnels

The seminar will provide first a general overview of the main types of common utility tunnels and describe, with illustrative examples, their advantages and disadvantages.

Then it will focus on all the factors to consider in the decision process.

Finally the design issues, the construction methods and practices and the maintenance requirements will be developed by experienced professionals.

## Who should attend ?

The targeted participants are engineers, architects, planners and public administrators, consultants and contractors involved in urban planning and infrastructures.

*Photo Credits: T. to B.: Bill Ebbesen, utility tunnel in Copenhagen. Orma Viikman - City of Helsinki, utility tunnel in Helsinki. Honza Groh, Utility tunnels Prague, Prague.*

## Benefits for the participants

- Receive the latest state of the art information from internationally well-known experts
- Be informed on all the different aspects of planning, design, construction maintenance and rehabilitation of common utility tunnels
- Be prepared to manage and support important projects of urban utility networks
- Receive a Certificate of Attendance
- Course and references material. A notepad illustrated with all the slides shown during the seminar, abstracts of the lectures and a short bio of the lecturers. A digital copy (USB Memory Key) of all slides shown during the seminar
- Extend your social and professional network



**Register to :** ITACET Foundation, online registration form on [www.itacet.org](http://www.itacet.org)

**Costs :** Registration Fee is 1000 € / person

**Payment :** Bank transfert to ITACET Foundation 1015 Lausanne - Switzerland  
CREDIT SUISSE | BIC/SWIFT: CRESCHZZ80A | IBAN: CH78 0483 5042 6569 72000  
CREDIT CARD AND PAY PAL Payment services are available on [www.itacet.org](http://www.itacet.org)

## Lecturers

In the order of their intervention



### Charles-Edouard Delpierre (F - GDF SUEZ)

Charles-Edouard Delpierre joined the Center of Research and Innovation in Gas and New Energies in GDF SUEZ in 2013, as Senior Project Manager for Smart activities. These activities are divided into 3 thematics : smart metering, smart grid and smart city. The objective is to develop "more sustainable and smarter cities" in a multifluid approach (electricity, gas, water and other networks). Before 2013, Charles-Edouard Delpierre spent 5 years in the construction of telecommunications networks for cities in France.



### Jan Sochurek (CZ - Interprojekts sc Ingutis ltd)

Specialist in static, senior engineer for designing of tunnel construction, aschief engineer of collector systems in Prague, Brno, Tabor, Jihlava, Plzen, lecturer at the Technical university of Prague - Faculty of civil engineering- Currently executive head of projection company for static, geotechnical, tunneling, special foundation and technical infrastructure as well as collectors-tunnel in center in CZ, and water supply system



### Bodo Kern (D - Herrenknecht AG)

Bodo Kern is General Manager of Herrenknecht Saudi Arabia Ltd. Bodo Kern has 25 years experiences in the field of Construction, Project and Engineering and Management. Since 2008 he supervised to the execution and support of more than 300 km of Utility Tunnels all over the Kingdom of Saudi Arabia.



### Ciaran Mahood (D - PORR Bau GmbH)

Ciaran Mahood worked as Project manager in Malaysia, Indonesia and Ireland, then, for the last four years he has been working in Saudi Arabia as a Project Manager moving into a Bid Manager role for two years overseeing bids on many large projects throughout KSA. At the start of this year he was appointed as the Country Manager for PORR Bau GmbH overseeing both tendering and execution of tunnel and railway projects.

**About The ITACET Foundation:** Founded in 2009, it aims to be a center of Excellence for Education and training on Tunneling and Underground Space Use. The foundation fulfils its mission by notably organize specialized Training Sessions for the ITA-AITES member nation and private corporations.

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