



# Underground Construction

Conference and Exhibition incorporating  
the International Tunnelling Exhibition

Earls Court, London, UK June 29-30 2011  
[www.tunnellingshow.com](http://www.tunnellingshow.com)



## Conference Programme

Organised by:



### Day One: Wednesday 29<sup>th</sup> June 2011

**08:30 Registration and Refreshments**

**09:15 Morning Chair**  
Martin Knights, ITA

#### Theme 1: Technical and Design Developments in Underground Construction

**09:20 Load Sharing Effects in Sprayed Concrete Tunnel linings**  
Dr Thomas Marcher  
Technical Director – Geotechnical Engineering, ILF Consulting Engineers

**09:45 Optimisation and Current Best Practice for Slurry Separation**  
Neil Philips  
Graduate Engineer/ Research Student, Geotechnical Consulting Group

**10:10 Assessment of Ground Movement Impacts on Existing Tunnels**  
Ian Turner  
Senior Engineer, Atkins

**10:35 The Fehmarn Belt Tunnel – Design Challenges**  
Steen Lykke  
Project Director Tunnel, Femern A/S

**11:00 Audience Question and Answer**

**11:15 Morning Refreshments and Exhibition Viewing**

#### Theme 2: Tunnel Operation and Maintenance

**11:45 Current London Underground Projects and Tunnelling Technology Interests**  
Keith Bowers  
London Underground

**12:10 Consequences of Tunnel Climate & Ventilation for Design of 53km Long Base Tunnel in the Andes**  
Dr Andrea Krpo  
Engineer  
HBI Haerter Ltd Consulting Engineers

**12:35 Blackwall Tunnel Northbound - Meeting the Refurbishment Challenge**

Nicholas J Tucker  
Senior Project Manager  
Mott MacDonald Limited

**13:00 Audience Question and Answer**

**13:15 Lunch and Exhibition Viewing**

**14:30 Afternoon Chair**

Bob Ibell  
Chairman, British Tunnelling Society

**14:35 Keynote Address:**

Terry Morgan  
Chairman, Crossrail Ltd

**Theme 3: Sustainable Development and Minimising the Impact of Underground Works**

**14:50 A New Approach to Construction of Underground Stations and Launch Boxes**

James Thomson C. Eng.  
Chairman  
Jacked Structures SA

**15:15 Dublin Metro North: The Role of Independent Engineering Experts**

Ruth Allington  
Joint Senior Partner  
GWP Consultants LLP

**15:40 Settlement Control through Face Pressure in the Operation of Closed-Faced TBM Machines**

Davor Simic  
Ferrovial-Agroman, Polytechnical University of Madrid

**16:05 Audience Question and Answer**

**16:20 Afternoon Refreshments and Exhibition Viewing**

**16:50 British Tunnelling Society Lecture 2011:**

**High Speed Railway Tunnels in Spain**

Jose Luis Arévalo Segovia  
División de Sistemas Ferroviarios

With the opening of the new Levante line, the Spanish High Speed Railway network has become the longest in the world. HSR lines with their demanding alignments require the design and construction of an unusually high number of tunnels, some of which are amongst the longest and more important in the world. This presentation provides information of three good examples of the tunnels recently built in Spain: Guadarrama tunnel, with its 28.4 km, already in operation, Pajares tunnel, 24.5 km long which excavation was completed in 2009, and finally Atocha-Chamartín tunnel, much shorter with only 6.8 km in length, but interesting for being an entirely urban tunnel crossing the city of Madrid from North to South.

*This is an evening BTS Presentation being held at the " **Underground Construction Conference 2011**" on 29<sup>th</sup> to 30<sup>th</sup> June 2011*

BTS Rapporteur – Martin Knights

**18:00 The Underground Construction Drinks Reception**

## Day Two: Thursday 30<sup>th</sup> June 2011

**08:50 Registration and Refreshments**

**09:30 Morning Chair**  
Andy Flowerday  
Pipe Jacking Association

### Theme 4: A Worldwide Tunnelling Perspective

**09:35 Zurich Cross-City Railway Line: TBM Tunnelling and an Innovative Method to Under-Pass the Historical Station Building**

Nicolas Hessler  
Project manager - Head of Department, Railway Tunnels, Pöyry Infra AG

**10:00 Westside Subway Extension, Los Angeles**  
Leo Carse  
Senior Project Manager, Parsons Brinckerhoff

**10:25 A Worldwide Review of Construction Safety Law**  
Dr John Anderson  
Consultant and Expert Witness

**10:50 Audience Question and Answer**

**11:05 Morning Refreshments and Exhibition Viewing**

### Theme 5: UK Projects- Today and the Future

**11:35 Thames Water Lee Tunnel Project (Super Sewer)**  
Peter Jewell  
Lee Tunnel

**12:00 Practical Experiences with Sprayed Waterproofing Membrane on Three Tunnelling Projects in the UK**  
David Naylor, Petr Salak and Simon Stephenson  
Tunnel Engineers, Mott MacDonald Limited

**12:25 Temperature Management on London Underground - Future Challenges and Strategy**  
Mark Gilbey  
Principal Engineer, Rail, Parsons Brinckerhoff

**12:50 Audience Question and Answer**

**13:05 Lunch and Exhibition Viewing**

**14:30 Afternoon Chair**  
Andrew Hindmarch  
Senior Project Manager, Mott MacDonald and IMMM

### Theme 6: Ground Investigation, Treatment and Monitoring

**14:35 Amsterdam Noord/Zuidlijn: The Largest Settlement Monitoring Project in Europe?**  
David Cook  
Associate Director, Mott MacDonald Limited

**15:00 SCL Tunnel below Danube**  
Georg Atzl  
iC consulenten Ziviltechniker GesmbH

**15:25 Audience Question and Answer**

**15:40 Chair's Concluding Remarks and Close of Conference**

For more information and to register please visit [www.tunnellingshow.com](http://www.tunnellingshow.com)

Or contact Gary Stringer, Conference Development Manager

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