



10th Anniversary

Australian Tunnelling Conference


29 November - 1 December 2010 | Doltone House, Sydney

www.informa.com.au/tunnelling


Promoting best practice in tunnel design, construction and maintenance



Hear expert insights from senior industry and government representatives including:

 Alan Morris, Construction Manager (Tunnel), XRL, MTR Corporation Limited, Hong Kong

Speaking on his experiences in tunnelling the Guangzhou-Shenzhen-Hong Kong Express Rail Link.

 Andrew Liu, Senior Project Manager, Hatch Mott MacDonald, US

Addressing lessons learned working on California's Silicon Valley Rapid Transit project.

Simon Knight, Chairman National Executive Committee, Australasian Tunnelling Society

Adele McCarthy, Deputy Project Leader - Melbourne Metro 1, Department of Transport, Victoria

Peter Zahnleiter, Project Director, Sinclair Knight Merz Connell Wagner Joint Venture

Charles MacDonald, General Manager - Construction, BrisConnections

Michael Huber, Plant Manager Tunnelling, Baulderstone Pty Ltd

Nick Lewis, Project Manager, John Holland Tunnelling

Shan Raffel, Acting Inspector, Queensland Fire and Rescue Service

Alex De Aboitiz, Design Director, City North Infrastructure

John Munro, Section Executive - Tunnels, Parsons Brinckerhoff



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Researched and developed by:





Promoting best practice in design, construction and operation

DAY ONE: Monday 29th November 2010

- 8.30** Registration and coffee
- 8.50** Welcome from the Chair
Simon Knight, Chairman National Executive Committee, Australasian Tunnelling Society
- 9.00** **INTERNATIONAL CASE STUDY**
Tunnelling the Guangzhou-Shenzhen-Hong Kong Express Rail Link
Alan Morris, Construction Manager (Tunnel), XRL, MTR Corporation Limited, Hong Kong



CURRENT PROJECT UPDATES

- 9.40** **Melbourne Metro 2010 – Providing a strategic overview of the project addressing the unique technical challenges involved in tunnel construction**
Adele McCarthy, Deputy Project Leader - Melbourne Metro 1, Department of Transport, Victoria
- 10.20** **Exploring progress towards constructing Brisbane's Northern Link tunnel**
Peter Zahnleiter, Project Director, Sinclair Knight Merz Connell Wagner Joint Venture
- 11.00** Morning refreshments and networking break
Proudly Sponsored by: 
- 11.30** **Progress to date and lessons learned in constructing the Airport Link Tunnel**
Charles MacDonald, General Manager – Construction, BrisConnections

UNIQUE GROUND CONDITIONS

- 12.10** **INTERNATIONAL CASE STUDY**
Managing tunnel excavation in dense populations and difficult ground conditions, lessons learned from California's Silicon Valley Rapid Transit project
Andrew Liu, Senior Project Manager, Hatch Mott MacDonald, US
- 12.50** Luncheon
- 1.50** **Groundwater control for Sydney rock tunnels**
Paul Hewitt, Technical Executive – Geotechnical, Parsons Brinckerhoff



EXCAVATION AND TBM MANAGEMENT

- 2.30** **Experiences in TBM management for the Clem 7 North South Bypass Tunnel**
Michael Huber, Plant Manager Tunnelling, Boulderstone Pty Ltd
- 3.10** Afternoon refreshments and networking break
Proudly Sponsored by: 
- 3.40** **Experiences from the Melbourne Main Sewer Replacement, a \$220m project for Melbourne Water including 2 km of EPB TBM tunnel, 34 shafts and 2 km of microtunnelling**
Nick Lewis, Project Manager, John Holland Tunnelling

STANDARDS IN TUNNEL CONSTRUCTION

- 4.20** **Tunnel lighting design and the challenge of complying with ISO standard AS2293**
Colin Walwyn, Chief Electrical Engineer, UGL Engineering
- 5.00** Closing remarks from the Chair and end of day one
 Networking drinks

SPONSORSHIP AND EXHIBITION

This well established event attracts leaders and key decision makers from across the industry. To discuss how you can promote your company's products and services - please contact **Shreya Joshi Sponsorship Manager on 02 9080 4346 or shreya.joshi@informa.com.au**

POST-CONFERENCE

- 8.30** Registration and coffee **12.30** Luncheon

9.00 WORKSHOP A

Preventative and predictive inspection techniques for concrete

- Owners input to defining requirements at concept stage
- Principles of design life and deterioration as it affects selection of inspection techniques
- Monitoring of corrosion in order to confirm durability predictions and performance
- Post pour checking of construction to ensure performance is in line with requirements
- Testing for durability through the structures life
- Use of impact echo, ultrasonic pulse echo, ground penetrating radar and other methods to detect defects and inclusions
- Electrical potential and polarisation methods to check corrosion state
- Ongoing assessment of exposure

Workshop Facilitator: Frank Papworth, Managing Consultant, BCRC; Chairman, CIA Durability Committee

Best practice in design and maintenance



DAY TWO: Tuesday 30th November 2010

- 8.30 Registration and coffee
- 8.50 Opening remarks from the Chair

DESIGN AND PLANNING CONSIDERATIONS

- 9.00 **Design considerations in the Airport link tunnel project**
Alex De Aboitz, Design Director, City North Infrastructure
- 9.40 **Examining whole of life requirements in the development of tunnel design – Lessons learnt from Auckland's Victoria Park Tunnel**
Senior Representative, Victoria Park Alliance
- 10.20 **Risk transfer elements of major tunnelling construction projects**
Hans Moll, Business Development Manager, Munich RE
- 11.00 Morning refreshments and networking break

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GEOMECHANICS AND GROUND SUPPORT

- 11.30 **Geotechnical models in tunnelling**
Robert Bertuzzi, Principal, Pells Sullivan Meynink
- 12.10 **Geotechnical numerical modelling in civil tunnelling**
Frances Badelow, Senior Principal, Coffey Geotechnics
- 12.50 Luncheon

FIRE AND LIFE SAFETY

- 1.50 **Latest developments in fire and life safety for urban transport tunnels**
John Munro, Section Executive – Tunnels, Parsons Brinckerhoff
- 2.30 **Fire and life safety design considerations for the Tugun Bypass Tunnel**
Winner, Engineering Australia's 2009 Engineering Excellence and RH Hawken Awards in Project Infrastructure
Robert Bartlett, Associate, Norman Disney & Young
- 3.10 Afternoon refreshments and networking break
- Proudly Sponsored by: 
- 3.40 **Smoke duct design and construction for the Airport Link Tunnel project**
Nick Kyprios, Principal Structural Engineer, Parsons Brinckerhoff
- 4.20 **Planning fire and life safety on the Clem 7 North South Bypass Tunnel**
Bruce Dandie, Senior Design Manager, M&E, Thiess
- 5.00 Closing remarks from the Chair and end of conference

Conference Exhibitor



CONFERENCE WORKSHOPS: Wednesday 1st December 2010

- 5.00 Close of workshops

Concrete tunnel linings

Construction methods
Provide early warning of problems
In design
and pulsed eddy currents to detect

1.30 WORKSHOP B

Best practice in tunnel emergency planning and response

Finding from 2010 Churchill Fellowship research – Planning, preparation and response to emergencies in large tunnels

Tunnels present unique and challenging problems for emergency service responders. Brisbane has gone from having no tunnels of significance to having the largest road tunnel in Australia with the opening of the 4.8km Clem7. The 5km Airport Link project is under construction, and a third 5km tunnel will start construction in early 2011. Add to this that planned 13km underground rail link and you have a picture of a city undergoing significant increase in underground infrastructure.

So how does a Fire Service with limited experience in dealing with incidents in tunnels prepare for such as risk? Simple, you seek out the best in the world and learn from them!

In 2010, with the support of the QFRS, Acting Inspector Shan Raffel undertook a 10 week Churchill Fellowship to study all aspects of planning, preparation and response. His fellowship included visits to various authorities in USA, Canada, Germany, Austria, Denmark, Sweden, Norway and Switzerland. This presentation will present key findings in relation to lessons learnt, procedures, training, and equipment in use by fire services that have experience in dealing with tunnel emergencies.

Workshop Facilitator: Shan Raffel, Acting Inspector, Queensland Fire and Rescue Service

To see live highlights on YouTube from our events, visit
www.youtube.com/informa0z

Australian Tunnelling Conference

29 November – 1 December 2010 | Doltone House, Sydney

YES! Please register me for the Australian Tunnelling Conference (P10R43)

Early Bird (Until 30th September 2010)

<input type="checkbox"/> Two Day Conference	\$2195 + 10% GST = \$2414.50
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CONFERENCE VENUE

Doltone House, Darling Island Wharf (Opposite Star City Casino)
 48 Pirrama Road Pyrmont Point, NSW
 Phone: 02 8571 0622

ACCOMMODATION & TRAVEL

For your convenience, please access this event via our website and click on the 'Venue & Accommodation' tab or call the Lido Group on 1800 817 339.

REGISTRATION FEES

Registration fee includes copies of the conference presentations, lunch and refreshments

CANCELLATION POLICY

Cancellations must be advised in writing at least 10 days prior to the event. An administration fee of \$440 (incl. GST) will be incurred for cancellations. A refund will not be given if a delegate fails to attend or cancels within 9 days prior to the event. Conference notes will be sent to paid delegates who cancel in the non-refund penalty period. Substitutions can be made at any time before the event without penalty.

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AUSTRALIAN TUNNELLING CONFERENCE

P10R43

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The brochure features the conference title, dates, and location. It includes a list of speakers from various international organizations such as IBC, HNTB, and the Australian Tunneling Society. The bottom section lists sponsors like XIM, TARRANTS, and Tunneling.