Australian Tunnelling Conference

Promoting best practice in tunnel design, construction and maintenance

14 – 15 October 2019 | Aerial UTS Function Centre, Sydney

PRESENTING THE 16TH

SUPPORTED BY:

FEATURING INTERNATIONAL CASE STUDIES FROM:

- SINGAPORE
- MALAYSIA
- ITALY
- HONG KONG
- NEW ZEALAND
- THAILAND
- CHINA
- UK
- INDONESIA

PROJECT UPDATES & INDUSTRY CASE STUDIES:

- WESTERN HARBOUR TUNNEL AND BEACHES LINK
- SNOWY 2.0
- WESTCONNEX TUNNELS
- CITY RAIL LINK NZ
- IMMERSED TUNNEL OF HONG KONG-ZHUHAI-MACAO BRIDGE
- MELBOURNE METRO TUNNEL
- BRENNER TUNNEL
- CROSS RIVER RAIL
- FORRESTFIELD-AIRPORT LINK
- GOLD COAST SEAWAY

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Australian Tunnelling Conference
Our speakers include:

**Ed Taylor**
President, Australasian Tunnelling Society (ATS) / Manager, Design and Engineering, John Holland

**Doug Parris**
Program Director, Western Harbour Tunnel and Beaches Link, Infrastructure and Place Division, Transport for NSW

**Matt Morgan**
Project Manager, M4 East & M4-M5 Link Projects, WestConnex/Transurban

**Dave Evans**
Director of Engineering, Snowy 2.0, Snowy Hydro Limited

**Dr. Sofren Leo Suhaendi**
Associate / Tunnel Design Manager, Arup Singapore

**David Medcalf**
Project Manager, Trenchless Construction Manager, John Holland

**Dr. Karin Bäppler**
Head of Business Development and Geotechnics & Consulting, Traffic Tunneling Group, Herrenknecht AG, Germany

**Ross Dimmock**
Vice President, Sales Unit CENAME / MD, Normet UK Ltd.

**Richard Graham**
Perth Forrestfield-Airport Link – Project Director, Salini Impregilo – NRW JV

**Paul Thomas**
Deputy Director, Tunneling & Underground Stations, Rail Projects Victoria

**Dr. Sean Sweeney**
Chief Executive, City Rail Link Ltd

**Senior Representative**
Ampcontrol

**Hans de Wit**
Managing Director/Senior Consultant, Tunnel Engineering Consultants

**Zhiguo Zhang**
Deputy General Manager, China Railway Engineering Equipment Group Co., Ltd.

**Jeremy Kruger**
Technical Manager, Tunnels, Stations & Development, Cross River Rail Delivery Authority

# Australian Tunnelling Conference

**Monday 14 October 2019**

## 8:00 Morning coffee and registration

## 8:50 Welcome from Informa

### INDUSTRY OUTLOOK

**9:00 Opening remarks from the Chair and update from the ATS**

Ed Taylor, President, Australian Tunnelling Society (ATS) / Manager, Design and Engineering, John Holland

**9:30 INTERNATIONAL CASE STUDY**

The Immersed Tunnel of Hong Kong-Zhuhai-Macao Bridge

Hans de Wit, Managing Director/Senior Consultant, Tunnel Engineering Consultants

### 10:10 Project Update

For latest updates visit www.informa.com.au/tunnelling2019

### 10:40 Networking & refreshment break in the exhibition

### FUTURE & CURRENT PROJECTS

**11:10 Western Harbour Tunnel and Beaches Link – Program overview**

Doug Parris, Program Director, Western Harbour Tunnel and Beaches Link, Infrastructure and Place Division, Transport for NSW

**11:50 WestConnex Transurban – Delivering Australia’s Largest Road Infrastructure Project**

— Parramatta Rd Ventilation Facility
— BIM
— In-tunnel wayfinding
— Construction overview

Matt Morgan, Project Manager, M4 East & M4-M5 Link Projects, Westconnex|Transurban

### 12:30 Project Update

For latest updates visit www.informa.com.au/tunnelling2019

### 1:00 Lunch & networking in the exhibition

### 2:00 Melbourne Metro Tunnel Project

Paul Thomas, Deputy Director, Tunnelling & Underground Stations, Rail Projects Victoria

### TECHNOLOGY SHOWCASE

**2:40 Case Study of CREG’s 8.03m Gripper TBM for a 20km Drive in Jilin Province, China**

— Project overview and key challenges
— Targeted design and innovations
— Lessons learnt from construction

Zhiguo Zhang, Deputy General Manager, China Railway Engineering Equipment Group Co., Ltd

### 2:55 Technology Showcase

For latest updates visit www.informa.com.au/tunnelling2019

### 3:10 Ampcontrol

Senior Representative, Ampcontrol

### 3:25 Questions

### 3:35 Networking & refreshment break in the exhibition

### 4:05 INTERNATIONAL CASE STUDY

City Rail Link, New Zealand

Dr Sean Sweeney, Chief Executive, City Rail Link Ltd

“The unprecedented burst of infrastructure development across the eastern seaboard is creating shortages that frustrate employers and threaten delays in completing the much-needed productivity boosts the country’s largest cities desperately need.”

24 June 2019, AFR

### 4:45 PANEL DISCUSSION

Tunnelling labour shortages

— Infrastructure spending spree – Meets a shortfall of skilled engineers
— Bidding war for tunnelling specialists & engineers – Are we going to see more project costs blow out?
— What’s being done to make Engineering sexy?
— The role of experience in delays and cost overruns

For latest updates visit www.informa.com.au/tunnelling2019

### 5:15 Closing remarks from the Chair

### 5:20 Networking drinks in the exhibition
8:30  Morning coffee & registration

9:00  Opening remarks from the morning Chairman

9:10  INTERNATIONAL CASE STUDY
Tunnelling in South East Asia
The presentation will give an insight into the design and construction aspects of several challenging major underground infrastructure projects that have been completed and are still on-going in Singapore, Malaysia, Thailand and Indonesia.
With vast infrastructure development in the South East Asia Region, future planning and design will require innovative solutions and technologies to overcome the challenges of sustainability and productivity.
Lessons learnt from tunnelling projects employing technical innovations will be shared and further application of these technics to the upcoming South East Asia Tunnel Projects will be discussed.
Dr. Sofren Leo Suhaendi, Associate / Tunnel Design Manager, Arup Singapore

9:50  INTERNATIONAL CASE STUDY
Gripper TBM used for the Tulfes-Pfons exploratory tunnel at the Brenner in complex geology
Dr. Karin Bäppler, Head of Business Development and Geotechnics & Consulting, Traffic Tunnelling Group, Herrenknecht AG, Germany

FUTURE & CURRENT PROJECTS
10:20  Cross River Rail – Queensland’s highest priority infrastructure project
Jeremy Kruger, Technical Manager, Tunnels, Stations & Development, Cross River Rail Delivery Authority

11:00  Networking & refreshment break in the exhibition

11:30  Forrestfield-Airport Link – Continues to move forward
Richard Graham, Perth Forrestfield-Airport Link – Project Director, Salini Impregilo – NRW JV

12:10  Gold Coast Seaway – Trenchless crossing of the Broadwater
— 1400m crossing of the Broadwater – Construction of a pipe jack pipeline between Quota Park and South Stradbroke Island
— HDD crossing of the Nerang River
— Managing the difficult ground conditions – a combination of indurated and loose sands and clays
— Saline ground water and the effects on lubrication and slurry maintenance
David Medcalf, Trenchless Construction Manager, John Holland

12:50  Lunch & networking in the exhibition

1:50  Snowy 2.0, Expanding the Legacy of the Snowy Hydro Electric Scheme
— What is Snowy 2.0
— Current Status
— Contracting strategy
— Technical challenges
— World firsts!
Dave Evans, Director of Engineering, Snowy 2.0, Snowy Hydro Limited

TECHNOLOGY SHOWCASE
2:30  Latest sprayed concrete tunnelling in UK
Ross Dimmock, Vice President, Sales Unit CENAME / MD, Normet UK Ltd.

2:45  Technology Showcase
For latest updates visit www.informa.com.au/tunnelling2019

3:00  Questions

“Aecom’s Fleury says at the pointy end of the skills game, companies like his are also tapping their global networks and even co-ordinating with rivals to stagger works in staged programs to ease the crunch on skills”
24 June 2019, AFR

3:10  PANEL DISCUSSION
A more collaborative approach to tunnel construction
— The need for support from the Government in project timelimes
— What are the ingredients for successful collaboration on tunnelling projects?
— What are the must-haves for any project and where can adjustments be made?
— What has worked well in the past?
— Where is there scope for improvements?
— Do strict risk allocation models stifle collaborative success and how can we improve this?

3:40  Closing remarks

3:45  Afternoon refreshments and close of event

MEDIA PARTNERS:

VENUE DETAILS
Aerial UTS Function Centre
UTS Building 10, Level 7, 235 Jones Street, Ultimo, NSW 2007
Phone: 02 9514 1632

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