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OUR CENTENARY



ENGINEERS  
AUSTRALIA

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# Tunnel Systems Workshop

## Safety, Design, Construction and Operations

Join ATS Queensland for an informative one-day workshop on tunnel system safety, design, operations and maintenance.

8.30am - 5.00pm | Thursday 18 July 2019

Novotel Brisbane  
200 Creek Street, Brisbane, QLD 4000

The ATS invites members and guests to join us for a one day Tunnel Systems workshop.

The workshop speakers will present their first-hand industry experience in the areas of safety, design, construction, operations and maintenance for tunnel systems from recent projects.

From silica dust control, to optimising functional tunnel operations and maintenance in the Sydney Harbour Tunnel, moving people underground safely, and beyond, the day will inform you with up-to-date tunnelling practices undertaken in real life projects.

Following the workshop, you are also invited to an evening networking function hosted by the ATS Young Members.

Up to eight (8) CPD hours are available from the day-long workshop.

### TICKETS (INCL. GST)

|                |       |
|----------------|-------|
| Member         | \$110 |
| Student Member | \$60  |
| Society Member | \$175 |
| Non-member     | \$175 |

**UP TO 8 CPD  
HOURS AVAILABLE**

[engineersaustralia.org.au](http://engineersaustralia.org.au)

**REGISTER NOW**



# Program and Timings

**8.30am | Registration**

**8.50am | Welcome and Opening Address from Workshop Chair**

Tino Ferrero, Lendlease

**9.00am | Industry Collaboration on Silica Dust Control**

Kate Cole, ATS Clean Air Working Group

**9.45am | Optimising Functional Tunnel Operations and Maintenance in the Sydney Harbour Tunnel**

Bob Allen, Sydney Harbour Tunnel Operations

**10.30am | Morning Tea**

**11.15am | Moving People Underground**

Derek Edwards, Tunnel M&E Design - Aurecon

Chris Baker, Tunnel Systems Discipline - Aurecon

**12.15pm | Ventilation and Cooling System Design Underground**

Conrad Stacey, Stacey Agnew

**1.00pm | Lunch**

**2.45pm | TBC**

TBC

**3.30pm | Afternoon Tea**

**4.00pm | Moving Tunnel Systems in the 21<sup>st</sup> Century: Seamless Integration and the IoT**

Matthew Taylor

**5.10pm | Closing Address**

Tito Ferrero, Lendlease

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***Followed by Evening Networking Function hosted by ATS Young Members***

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# About the Speakers

Meet the industry leaders driving the conversation.



**Kate Cole**  
ATS Clean Air Working Group

Kate is an Engineer & Certified Occupational Hygienist who has worked in the construction industry for almost two decades on projects in Australia and internationally. She holds degrees in Science, Engineering and Occupational Hygiene. Named as one of the Top 100 Women of Influence by the Australian Financial Review and a Winston Churchill Fellow, Kate is a passionate advocate for preserving the health of Australian construction workers and addressing of silica dust exposure in the construction industry. Kate is currently supporting Sydney Metro as the Occupational Health and Hygiene Manager.



**Bob Allen**  
Sydney Harbour Tunnel Operations

Bob joined the Sydney Harbour Tunnel project as Tunnel Controller in May 1992 to help develop operational procedures and operate the control room when the tunnel opened in August that same year. He was promoted to Operations Manager in August the year after, a position he held for almost six years before being appointed as General Manager in 1999 where he was responsible for all aspects of tunnel operations.



**Derek Edwards**  
Tunnel M&E Design, Aurecon

Derek is a Technical Director in the tunnel services group of Aurecon with almost 30 years' general professional experience, of which more than two decades has included tunnel ventilation and tunnel services. During this time, Derek has carried out technical advisor roles to government and semi government bodies, detail design roles on a variety of projects.



**Chris Baker**  
Tunnel Systems Discipline Lead, Aurecon

Chris is an Engineering Design Manager with Aurecon and works within the Brisbane tunnelling team designing road and rail tunnels within Australia. Currently, Chris is leading the tunnel systems discipline on the reference design for the Inland Rail Freight tunnels for Australia Track Rail Commission (ARTC). Prior this, he was the tunnel systems design manager on Westgate Tunnel in Melbourne and the Westconex Tunnel Sydney preceding that.





# About the Speakers

Meet the industry leaders driving the conversation.

**Leon Van den Berg**  
BBE Consulting

Leon is Chartered Professional Engineer and MD of BBE's Australasian division. He has over 15 years' experience primarily on mine ventilation and tunnel ventilation projects, and his expertise includes ventilation and cooling system design aimed at reducing occupational health and safety risk of the underground environment. Leon serves as a committee member in the AusIMM mine ventilation conference organising committee.



**Conrad Stacey**  
Stacey Agnew

Conrad is respected globally in the tunnel vent community for both his breadth of understanding and his detailed insights. He is on two international tunnel safety conference technical committees and a PIARC Working Group, all by invitation. As a committee member, he drafted important parts of the Australian Standard for Tunnel Fire Safety.



**Matthew Taylor**

Matthew has over 30 years of experience within the electrical, mechanical, control and fire life safety systems engineering fields spanning the road and rail transport and water infrastructure industries. Matthew is highly skilled in the fields of the design, installation, testing, commissioning and the ongoing operation and maintenance of control, communication, ITS and fire life safety systems associated with road tunnels and underground rail facilities in particular. Professionally, Matthew has played pivotal roles in the delivery of several of Australia and New Zealand's largest underground transport infrastructure projects since his migration from the UK in 1997.