19 – 20 JUNE 2019 SYDNEY AUSTRALIA

RISSB TECHNOLOGY AND INNOVATION CONFERENCE
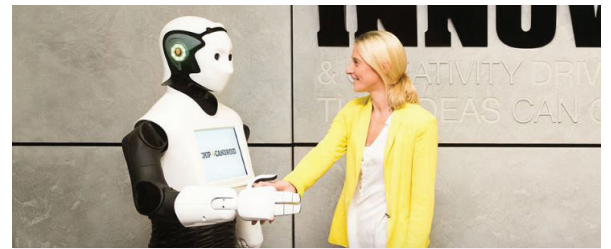
Developing innovative technology for the rail industry

PARTNERS | EXHIBITORS

ergonomie™

RISSB

RAIL INDUSTRY SAFETY AND STANDARDS BOARD

DAY ONE

Time	Session
8:30	**Site Tours – Arrival & Registration**
9:30	**Site Tours**
11:30	**Conference – Arrival & Registration**
12:00	**Lunch**
13:00	**Safety Briefing & Housekeeping** Samantha Peters, Events Coordinator, Rail Industry Safety and Standards Board
13:05	**Welcome from RISSB**
13:15	**Welcome from University of Technology Sydney** Professor Glenn Wightwick, Deputy Vice-Chancellor of Innovation and Enterprise, University of Technology Sydney
13:30	**Keynote Speaker: Driving Innovation In Challenging Environments** Dr Geoff Rogers, Engineer and Entrepreneur Chief Executive Officer and Executive Director, Wintermute Biomedical
14:00	**Using Technology to Enhance Human Factors and Ergonomics Assessment** Casey James, Senior Human Factors Consultant, Ergonomie
14:30	**TBA**
15:00	**Afternoon Tea Break**
15:30	**Advancing Innovation Without Compromising Safety** Alena Griffiths, Consultant and Director, RGB Assurance
16:00	**Robotics, Automation, Autonomous Vehicles And Artificial Intelligence: a behind the scenes tour and primer** Professor Michael Milford, Chief Investigator, ARC Centre of Excellence for Robotic Vision
16:30	**RISSB's Innovation Inventory & Related Trends** Jesse Baker, General Manager Safety & Innovation, Rail Industry Safety and Standards Board
17:00	**CLOSE OF DAY ONE** Rail Industry Safety and Standards Board
17:30	**Networking Event** Aerial UTS Function Centre

SITE TOURS

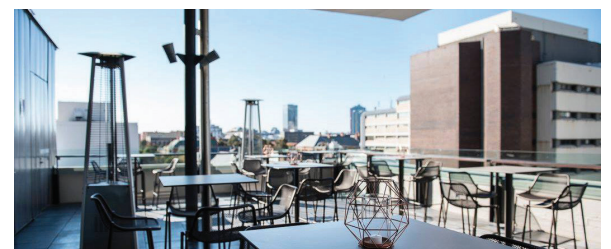### *Laing O'Rourke Engineering Excellence Group*

Experience an up close look at the innovation and technology that the Laing O'Rourke Engineering Excellence Group is developing including virtual and augmented reality, robotic computer vision systems, construction-scale 3D printing, sensors and GPS & data platforms.

Commonwealth Bank Innovation Lab

Come behind the scenes of Commonwealth Bank's innovation story. Hear how new ways of thinking are applied to solve human centred problems and explore the applications of emerging technologies such as Blockchain and Embodied Artificial Intelligence in our rapidly changing world.

Limited spaces available for each site tour.

9:30 - 11:30am Wednesday

NETWORKING EVENT

Join RISSB at the Technology and Innovation Conference Networking Event. This is a great opportunity to meet fellow delegates and discuss the exciting opportunities and possibilities for technology and innovation for the rail industry. This event is exclusive to registered conference delegates.

17:30 - 19:00 Wednesday

Please note that this program may be subject to change. Visit **www.rissb.com.au/events** for the latest program.

DAY TWO

8:30	**Conference – Arrival & Registration**
8:55	**Welcome from RISSB**
	Spotlight on innovation and technology recently implemented in the rail industry and their success story
9:00	**Sydney Metro - Australia's First Fully-Automated Driverless Railway** Oliver Fried, Program Technical Director, Sydney Metro
	Developing innovative technology for the rail industry
9:30	**Next Generation Rail Safety Systems Using Artificial Intelligence and Machine Learning** Associate Professor Stephan Chalup, Newcastle University & Mark Wood, General Manager, Communications and Electronics, 4Tel
9:55	**Innovation and Technology is Improving Level Crossing Safety at Less Cost** Gary Foster, Chief Technology Officer, Rail Safety Systems
10:20	**Morning Tea Break**
	What are the current trends in innovation and technology and how do we adapt them to the rail industry?
10:40	**Digital Safety Inspection - Using Mobile Devices to Manage Compliance and Safety Inspections in the Rail Industry** Naaman Shibi, General Manager, Pervidi
11:05	**Application of Big Data Analytics in Heavy Haul Railways** Malcolm D'Cruz, Reliability Engineer – Signals & Systems and Parviz Barati, Reliability Engineer – Track, Rio Tinto Iron Ore
11:30	**The Implementation of Unmanned Autonomous Systems (UAS) for Railway Inspection** Joshua Chevin, Monash Institute of Railway Technology & Ravi Ravitharan, Director – Monash Institute of Railway Technology
11:55	**Lunch Break**

	How is technology driving the future of the rail industry?
12:55	**Innovating Technology for Managing Operational Risks in Real Time** Professor Colin Cole, Director - Centre for Railway Engineering, CQUniversity
13:20	**Digital Systems: The Transformative Nexus of Systems Thinking and Asset Management to Deliver Public Value Innovation** Mark Smith, Director - Engineering, Strategy & Assurance, Digital Systems Program and Vincent Chiu, Acting Director – Systems Integration, Digital Systems Program, Transport for NSW
	What impact does technology & innovation have on the rail industry in the short to medium term future?
13:45	**Modern Communication Technology to Improve Safety and Enhance Commuter Experience in Railway Networks** Ravi Ravitharan, Director, Monash Institute of Railway Technology
	How to approach and mitigate barriers to implementing innovation and new technology
14:10	**Low-Cost Graffiti Detection for Trains** Jina Lee, Jake Linnenbank and Gavin Caird, Transport Engineering
14:35	**Staying on Track – How Cyber Security Impacts the Rail Industry** Rotem Abeles, Head of Business Development, Cylus
15:00	**Drone Digital Assets: Solving the Challenges of Visual Inspection in the Rail Corridor** Andrew Chapman, Director of Operations NSW, Australian UAV
15:25	**Small in Scale, Big Potential Impact: Spotlight on ACRI Research** Andrew Meier, Chief Executive Officer & Paul Murray, Project Manager, Australasian Centre for Rail Innovation
15:50	**CLOSE OF DAY TWO** Rail Industry Safety and Standards Board
16:00	**End of Conference**

PARTNERSHIP OPPORTUNITIES

If you would like to partner with RISSB in this event, please contact:
Samantha Peters | 0424 150 221 | events@rissb.com.au

Conference Package	Price	GST	Total
Two day conference – RISSB Member Rate	$1,195.00	$119.50	$1,314.50
Two day conference – Standard Rate	$1,995.00	$199.50	$2,194.50
Two day conference - RISSB Young Rail Professionals Rate (Under 35)*	$695.00	$69.50	$764.50

*Terms and conditions apply.

Register now at www.rissb.com.au/events

For more information contact **events@rissb.com.au** or call **0424 150 221 / 07 3724 0000.**

INTERNATIONAL
Railway Safety
Council Conference
AUSTRALIA 2019

Innovation
and Technology:
Changing the
Future of
Rail Safety

Register to attend
www.irsc2019.com
Early bird rates expire
14 June 2019

13–18 October 2019
Hyatt Regency, Perth

RISSB
RAIL INDUSTRY SAFETY AND STANDARDS BOARD

STAY CONNECTED

#TIC19 in twitter

VENUE DETAILS

UTS Aerial Function Centre
Building 10, Level 7, 235 Jones
Street, Ultimo, Sydney NSW 2007

aerialutsfunctioncentre.com.au