

# RISSB Rail Safety Conference

New ideas, new perspectives  
and new directions

11 – 12 May 2021 | Swisshotel Sydney



## INTERNATIONAL KEYNOTES

Ian Jeffries, *President and CEO, AAR (USA)*

George Bearfield, *Director of Health, Safety and Cyber Security, Rock Rail Holdings (UK)*

Dan Basacik, *Principal Human Factors Specialist, RSSB (UK)*

## INDUSTRY KEYNOTES

Sue McCarrey, *Chief Executive, ONRSR*

Dr Natalie Pelham, *CEO & Chief Investigator, Office of Transport Safety Investigations (OTSI)*

Greg Hood, *Chief Commissioner and CEO, Australian Transport Safety Bureau (ATSB)*

Suzanne Holden, *A/Deputy Chief Executive, Sydney Trains*

## 2021 KEY FEATURES, BENEFITS AND TAKE-AWAYS

■ OVER 50+ INDUSTRY LEADERS from Australia, USA, United Kingdom and New Zealand

■ Plenary sessions each morning including keynotes, thought provoking presentations and panels

■ Safety issues in focus with concurrent streams focusing on:

- Safety Innovation
- Safety Harmonisation and Interoperability
- Asset Management
- Fatigue
- Safety Culture
- Track Worker Safety

- Safety and Technology

■ Networking Drinks

■ 50% Discount rate for all young rail professionals (Under 35)

■ The option to attend one of two concurrent industry workshops:

Delivering Effective Solutions to Contractor Management

Delivering Effective Solutions to Minimising Environmental Impacts of Rail

■ A selection of three technical site visits:

Metro Trains Sydney – Maintenance

Facility and Control Room

Central Station Metro – New Platforms

UTS Data Arena

Photo courtesy of Sydney Metro



# RISSB Rail Safety Conference

Tuesday 11 May 2021

# DAY 1

## 8:50 OPENING | Chair welcome

Sandra Wilson-Ryke, *HSQE Director, Keolis Downer*

## 8:55 RISSB Welcome

Deborah Spring, *Executive Chair and CEO, RISSB*

## SAFETY LEADERSHIP

### 9:00 INTERNATIONAL KEYNOTE ADDRESS

#### Safety Moving People, Goods and the Economy (tbc)

Ian Jeffries, *President and CEO, AAR (USA)*

### 9:40 PANEL DISCUSSION

#### Safety Leaders Panel: New Perspectives

Helen Williams, *Executive General Manager Speciality Engineering, SYSTRA Scott Lister*

Scott Cornish, *Executive General Manager, Safety, Risk and Assurance, Queensland Rail*

David Bainbridge, *Project Director – Safe Work Improvement Program, Australian Rail Track Corporation*

10:20 Safety stretches and networking break

### 10:50 KEYNOTE SPEAKER

#### Sharing learnings from other industries

Suzanne Holden, *A/Deputy Chief Executive, Sydney Trains*

### 11:20 PANEL DISCUSSION

#### Safety Leaders Panel: New Ideas

Chadi Chaloub, *A/Executive Director, Safety Environment Quality Risk, Sydney Trains*

Dr Kate Branford, *Senior Human Factors Specialist, V/line Corporation*

Huw Bridges, *Chief Safety & Assurance Officer, Transdev Australasia*

12:00 Safety stretches and networking break



## 13:00 | SAFETY ISSUES IN FOCUS

SAFETY INNOVATION	SAFETY HARMONISATION AND INTEROPERABILITY
<b>RISSB's Innovation Agenda</b> Jesse Baker, <i>General Manager, Innovation &amp; Major Projects, RISSB</i>	<b>RISSB's Harmonisation and Interoperability Agenda</b> Cris Fitzhardinge, <i>Standards Development Manager Train Control &amp; Operations, RISSB</i>
Chair: Andrew Barry, <i>A/Director Safety Delivery Train Crewing, Sydney Trains &amp; RISSB Horizons Graduate</i>	Chair: Oliver Lake, <i>ATP Test &amp; Commissioning Engineer Onboard, Network Growth Portfolio, Sydney Trains &amp; RISSB Horizons Graduate</i>
<b>13:15 Two Approaches Become One: Safety Assurance Best Practice</b> Tim Procter, <i>Senior Consultant, Indec Consulting &amp; Stacey Vorwerk, Chartered Engineer, Department of Transport, Victoria</i>	<b>13:15 Finding the Vigilance Timing Cycle for Interoperable Trains</b> Kenelm Wong, <i>Senior Engineer, Fleet Mechanical Systems, Transport for NSW &amp; RISSB Horizons Graduate</i>
<b>13:40 Train Control Automation using AI</b> Klaus Clemens, <i>Consultant, RMAus</i>	<b>13:40 Investigation Tools and Harmonisation</b> Associate Professor Anjum Naweed, <i>CQUniversity</i>
<b>14:05 Driver Safety Predictor Tool</b> Catherine Baxter, <i>Chief Operating Officer, Metro Trains Melbourne</i>	<b>14:05 Signalling &amp; Train Control Interoperability</b> Stephen Lemon, <i>Program Director Network Futures, Transport for NSW</i>
<b>14:30 Virtual Reality Training and Safety – a Human Factors Perspective</b> Dr Cristina Kirsch, <i>Human Factors Specialist, Sydney Trains</i> Pak Ng, <i>Senior Manager in Learning &amp; Development, Transport for NSW</i>	<b>14:30 The National Rail Action Plan: Driving Harmonisation and Interoperability</b> Sandra McKay, <i>Executive Leader, Facilitated Reform, National Transport Commission (NTC)</i>
<b>14:55 Key takeaways: Wrap up summary sessions</b>	
<b>15:00</b> Safety stretches and networking break	

15:30 | SAFETY ISSUES IN FOCUS

FATIGUE	ASSET MANAGEMENT
<b>RISSB's Fatigue Agenda</b> Mike Aviet, <i>General Manager, Product Delivery, RISSB</i>	<b>RISSB's Asset Management Agenda</b> Sudha Niles, <i>Standards Development Manager Infrastructure, RISSB</i>
Chair: Nathan Hines, <i>Human Factors and Fatigue SME, Sydney Trains &amp; RISSB Horizons Graduate</i>	Chair: Sue Rose, <i>Senior Requirements Engineer, Next Generation Tram, Department of Transport, Victoria &amp; RISSB Horizons Graduate</i>
<b>15:45 Recent Advances in Fatigue Management</b> Prof Drew Dawson, <i>Director Research Development, CQ University</i>	<b>15:45 What do you Really Know About the Assets you Own and Manage?</b> Tony Repaci, <i>Account Director - Rail and Industrial Sectors, GS1 Australia</i>
<b>16:10 The ATSB's Approach to Investigating Fatigue</b> Dr Michael Walker, <i>Director, Transport Safety, Australian Transport Safety Bureau (ATSB)</i>	<b>16:10 An IMS for Rail System Engineers</b> Greg Williams, <i>Director Engineering &amp; Asset Management, Keolis Downer Rail</i>
<b>16:35 INTERNATIONAL CASE STUDY</b> <b>Collaborating Across Rail to Manage Fatigue Risk</b> Dan Basacik, <i>Principal Human Factors Specialist, RSSB (UK)</i>	<b>16:35 Reducing the Need to Access the Danger Zone</b> George Stojkovski, <i>Deutsche Bahn</i>
<b>17:00 Key takeaways: Wrap up summary sessions</b>	
<b>17:05 INTERNATIONAL KEYNOTE ADDRESS</b> <b>Rail Safety and the 4th Industrial Revolution</b> George Bearfield, <i>Director of Health, Safety and Cyber Security, Rock Rail Holdings (UK)</i>	
<b>17:40 End of Conference Day One   Networking Drinks</b> This is your opportunity to unwind, network and discuss the day's proceedings over drinks and canapés with delegates, sponsors, exhibitors, speakers. The Networking Drinks function is included in your registration.	



## SPONSORSHIP AND EXHIBITION OPPORTUNITIES

The RISSB Rail Safety Conference will bring together government bodies, railway operators, engineers, project managers and industry experts and stakeholders from across the rail safety spectrum.

To showcase your services, expertise and product to the rail safety professionals and decision makers at this established industry gathering, contact:

**Sarah Ingram, Sponsorship & Exhibition Sales Manager**  
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# RISSB Rail Safety Conference

Wednesday 12 May 2021

# DAY 2

## 8:50 OPENING | Opening remarks from the Chair

Graham Jackson, *Director Strategic Projects, Safety, Environment & Regulation, Transport for NSW*

## 9:00 KEYNOTE PRESENTATION

### Investigation Update and the ATSB/OTSI Partnership to Improve Rail Safety

Greg Hood, *Chief Commissioner and CEO, Australian Transport Safety Bureau (ATSB) &*

Dr Natalie Pelham, *CEO & Chief Investigator, Office of Transport Safety Investigations (OTSI)*

## 9:30 KEYNOTE PRESENTATION

### New Approaches to Regulation

Sue McCarrey, *Chief Executive, ONRSR*

## 10:00 PANEL DISCUSSION

### Ask the Regulator Panel

Facilitator: Dr Tim Kuypers, *Principal, Walbrook Partners*

Sue McCarrey, *Chief Executive, ONRSR*

Peter Doggett, *Chief Operating Officer, ONRSR*

Julie Bullas, *Executive Director Policy, Reform and Stakeholder Engagement, ONRSR*

Simon Foster, *Executive Director, Technical, ONRSR*

## 10:40 LAUNCH

### Track Worker Safety Report, Safety in the Corridor

Sue McCarrey, *Chief Executive, ONRSR*

Deborah Spring, *Executive Chair and CEO, RISSB*

10:45 Safety stretches and networking break

## 11:10 | SAFETY ISSUES IN FOCUS

SAFETY CULTURE AND INNOVATION	TRACK WORKER SAFETY
<b>RISSB's Safety Culture Agenda</b> Risharda Robertson, <i>Safety and Risk Systems Manager, RISSB</i>	<b>RISSB's Track Worker Safety Agenda</b> Jesse Baker, <i>General Manager, Innovation &amp; Major Projects, RISSB</i>
Chair: Lam-Thien Vu, <i>Systems Engineer, ARTC &amp; RISSB Horizons Graduate</i>	Chair: Chelsea Winskill, <i>Regulatory Data Analyst, ONRSR &amp; RISSB Horizons Graduate</i>
<b>11:20 Critical Risk Management - Establishing a Culture for Zero Harm</b> Christopher Cashman, <i>Head of HSQE, Torrens Connect</i>	<b>11:20 Track Worker Safety Report, Safety in the Corridor</b> Dr Anne Kovachevich, <i>Australasian Foresight Leader, Arup</i>
<b>11:45 A systemic approach to safety culture</b> Allison McDonald, <i>Managing Director, SystemIQ</i>	<b>11:45 Track Worker Safety Improvements on the NSW Country Regional Network</b> Graham Hjort, <i>General Manager - Control Systems, 4Tel</i>
<b>12:10 An Analysis of the Impact of Safety Culture on an SMS</b> Julia Gibney, <i>Consultant, JVAT</i>	<b>12:10 ARTC's Safe Working Improvement and EVU</b> Richard Clark, <i>Project Manager - Quality Systems, Australian Rail Track Corporation</i> Alice Plett, <i>Project Delivery Support - Quality Systems, Australian Rail Track Corporation</i>
<b>12:35 Key takeaways: Wrap up summary sessions</b>	
<b>12:40</b> Safety stretches and networking break	
SAFETY AND INNOVATION	SAFETY AND TECHNOLOGY
Chair: Cris Fitzhardinge, <i>Standards Development Manager Train Control &amp; Operations, RISSB</i>	Chair: Mike Aviet, <i>General Manager, Product Delivery, RISSB</i>
<b>13:20 Digital Engineering Driving Innovation</b> Andy Lyon, <i>Program Director, Digital Engineering, KiwiRail</i>	<b>13:20 Blindsight. Effortlessly Protect People in Dynamic Environments with Artificial Intelligence Vision</b> Dr Kieran MacKenzie, <i>CEO, Presien</i>
<b>13:50 An Immersive Virtual Environment within Rail</b> Dimuth Hapangama, <i>Graduate Structural Engineer, Arcadis</i>	<b>13:50 Railway Suicide Prevention with Virtual Reality</b> Craig Fletcher, <i>Managing Director and Principal Consultant, Ergonomie</i> and Gary Beavan, <i>Director Security, TfNSW</i>

## 14.30 – 16.00 | CONTRACTOR MANAGEMENT WORKSHOPS

DELIVERING EFFECTIVE SOLUTIONS TO CONTRACTOR MANAGEMENT	DELIVERING EFFECTIVE SOLUTIONS TO MINIMISING ENVIRONMENTAL IMPACTS OF RAIL
<p><b>Background:</b></p> <p>Contractors are an essential part of our industry and they have shared responsibilities with Rail Transport Operators under section 50(1)(c) of the Rail Safety National Law. Even so, it is often reported that the relationship between Contractors and RTOs can be suboptimal, indeed Contractor Management is one of ONRSR's four national priorities. But RTOs and Contractors describe the problem differently which makes it difficult to solve.</p> <p><b>Aims:</b></p> <p>This workshop will seek to explore issues and come up with a problem definition so that future work can be more focussed and deliver more effective solutions.</p> <p>Facilitator: Jesse Baker, <i>General Manager, Innovation &amp; Major Projects, RISSB</i></p>	<p><b>Background:</b></p> <p>Over past years we have recognised the impact of rail on the surrounding environment and, as an industry, have been making progress in minimising these impacts. As good corporate citizens we need to maintain our focus on building a more environmentally friendly and sustainable industry for the railway of the future.</p> <p>Recently, RISSB led two industry eco-friendly initiatives: wheel squeal reduction and the minimisation of horn noise. The material produced from these initiatives provided guidance to industry on how to minimise the impacts of noise on the surrounding environment. These are just two issues and there are more we could seek to solve.</p> <p><b>Aims:</b></p> <p>This workshop will discuss both aforementioned initiatives and provide you with an opportunity to speak with industry members and the RISSB representatives who led the development of each paper.</p> <p>We will also seek to explore other environmental impact issues within our industry and identify the contributors so that future work can be focussed on the delivery of effective solutions.</p> <p>Facilitator: Mike Aviet, <i>General Manager, Product Delivery, RISSB</i></p>

## CONCURRENT TECHNICAL SITE VISITS

Delegates will have the option to tailor knowledge with the selection of three concurrent technical site visits.

### Metro Trains Sydney – Maintenance Facility and Control Room

**Total time: 1:00 – 4:00pm**

**Time onsite: 2:00 – 3:00pm**

Sydney Metro delivers a new generation of fast, safe and reliable train services and attendees will have the opportunity for a guided visit the Metro maintenance facility and control room at Tallawong.



### Central Station Metro – New Platforms

**Total time: 2:30 – 4:30pm**

**Time onsite: 3:00 – 4:00pm**

Delegates will have the opportunity to visit the works underway as part of the Central Station Metro \$955 million contract awarded to Laing O'Rourke to deliver the new Sydney Metro platforms under Central Station as well as the landmark Central Walk – a new underground pedestrian concourse to help customers get around Sydney's busiest railway station.



### UTS Data Arena

**Total time: 2:30 – 4:30pm**

**Time onsite: 3:00 – 4:00pm**

The UTS Data Arena is a powerful immersive facility that can help researchers, business and government simplify complex information. Users in the arena can surround themselves in data to observe, explore, refine, improve, discover and learn.



Visit the event website to view the specific PPE requirements for each tour. The site tours are included as part of your registration, but reservations are required. Reserve your place when registering for the conference.

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## Easy Ways to Register

- 1 Web**  
[www.railsafetyconference.com.au](http://www.railsafetyconference.com.au)
- 2 Telephone**  
+61 (0)2 9080 4307 – Quoting P21M04
- 3 Email**  
[info@informa.com.au](mailto:info@informa.com.au) – Quoting P21M04

## Stay Connected



# RailSafety2021

## Pricing Details

Conference Package	Standard Rate			RISSB Member Rate		
	PRICE	GST	TOTAL	PRICE	GST	TOTAL
Two day conference	\$1,995.00	\$199.50	\$2,194.50	\$1,195.00	\$119.50	\$1,314.50
Young Rail Professionals rate (Under 35)	\$995.00	\$99.50	\$1,094.50	\$595.00	\$59.50	\$654.50
Virtual – Two day conference	\$1,195.00	\$119.50	\$1,314.50	\$695.00	\$69.50	\$764.50
Virtual – Young Rail Professionals rate	\$695.00	\$69.50	\$764.50	\$395.00	\$39.50	\$434.50

### VENUE DETAILS

Swissotel Sydney, 68 Market St, Sydney NSW 2000

**Phone:** (02) 9238 8888, [www.swissotel.com/sydney](http://www.swissotel.com/sydney)

**Swissotel Sydney Special Accommodation Rate:** 10% discount off best available rate at the time of booking. In order to qualify, please call the Reservations Team on 02 9238 8888 between 9:00am – 5:00pm Monday to Friday or email [res.sydney@swissotel.com](mailto:res.sydney@swissotel.com) and quote INFORMA

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