



PRESENTING THE

# International Railway Safety Council

13 – 18 October 2019 | Hyatt Regency Perth

## IRSC 2019 Conference Program Planner

Sunday 13 October	Monday 14 October	Tuesday 15 October	Wednesday 16 October
Stakeholder Meetings	<p>Theme: Demonstrating Safety in New Technology</p> <p>Theme: Risk Management and Assurance</p> <p>Theme: Operational Demands Vs Financial Constraints “Don’t save yourself into trouble”</p>	<p>Theme: Demonstrating Safety in New Technology</p> <p>Theme: Regulation and innovation – performance (systems) based regulation</p> <p>Theme: Competence and skills in a more automated industry</p> <p>Theme: Automation Challenges</p>	<p>Theme: Risk Management and Assurance</p> <p>Theme: Improving your Safety Profile Through Innovation</p> <p>Theme: Demonstrating Safety in New Technology</p>

### Sunday 13 October

Time	Activity
14:00 – 16:30	<p><b>Stakeholder Meeting: Regulatory Bodies – Freshwater Bay Room, Lobby</b> Sue McCarrey, National Rail Safety Regulator, Office of the National Rail Safety Regulator, Australia</p>
	<p><b>Stakeholder Meeting: Investigation Bodies – North Ballroom, Lobby</b> Nat Nagy, Executive Director, Australian Transport Safety Bureau, Australia</p>
	<p><b>Stakeholder Meeting: Industry Associations – Matilda Bay Room, Lobby</b> Deb Spring, Chief Executive Officer &amp; Executive Chair, Rail Industry Safety and Standards Board, Australia</p>
	<p><b>Stakeholder Meeting: Infrastructure Managers &amp; Train Operators – Mosman Bay Room, Lobby</b> David Bainbridge, General Manager Risk Safety &amp; Environment, Australian Rail Track Corporation, Australia</p>
16:35 – 16:45	RISRB’s Horizons Young Professionals Program Presentation
17:00	Close of Day
17:30	Buses depart Hyatt
18:00 - 20:00	<b>Welcome Reception - City of Perth Surf Life Saving Club</b>

**Monday 14 October**

Time	Activity
09:00 – 09:15	<b>Welcome to IRSC</b> Deb Spring, Chief Executive Officer & Executive Chair, Rail Industry Safety and Standards Board, Australia
09:15 – 09:30	<b>Welcome to Country</b> <b>Ingrid Cumming</b> , Founder, Kart Koort Wiern, Custodian and traditional owner of Whadjuk Nyungar Country
	<b>Theme: Demonstrating Safety in New Technology</b>
09:30 – 09:35	Session Chair – Jen Ablitt, Deputy Director Safety Strategy and Policy and Head of the UK Delegation to the Channel Tunnel Safety Authority, Office of Rail and Road, UK
09:35 – 09:55	<b>Digitalisation Reducing Risk in Irish Rail</b> Kay Doyle, Director of Health and Safety, Iarnród Éireann/Irish Rail, Ireland Cathal Mangan, Technical Manager, Iarnród Éireann/Irish Rail, Ireland
09:55 – 10:15	<b>SNCF Rail Safety and the Fourth Industrial Revolution</b> Frédéric Delorme, Chief Safety Officer, SNCF, France
10:15 – 10:25	<i>Discussion Session</i>
10:25 – 10:55	Morning Tea Break
	<b>Theme: Operational Demands Vs Financial Constraints “Don’t save yourself into trouble”</b>
10:55 – 11:00	Session Chair – Steve Bickley, Director, Abbott Risk Consulting, Australia
11:00 – 11:20	<b>The Lack of Synergy between Operational and Financial Managers in the Railways</b> Dr Peaceman Sopazi, Regional Technical Manager – Eastern Region, Railway Safety Regulator, South Africa
11:20 – 11:40	<b>Risk Analysis Methodology and Prioritisation of Safety Investments</b> Frédéric Henon, Chief of Corporate Safety, SNCF, France
11:40 – 12:00	<b>Safety Guarantee System of Chinese HSR</b> Tian Jun, Director General of Safety Supervision Department, NRA, P. R. China
12:00 – 12:15	<i>Discussion Session</i>
12:15 – 13:15	Lunch Break
	<b>Theme: Risk Management and Assurance</b>
13:15 – 13:20	Session Chair - Bill Greer, Director, Safety, Rail Projects Victoria, Australia
13:20 – 13:40	<b>How Do We Establish the Measures of Human Error through Technological Innovation such as Big Data, AI, and IOT by Open Innovation?</b> Toshiyuki Murai, General Secretary of Morioka Shinkansen branch, Morioka District Office, JREU, Japan
13:40 – 14:00	<b>Risk Management of Operators Interpretation of Information from New Technology</b> Eva-Lotta Högberg, Senior Investigator and IIC, Swedish Accident Investigation Authority, Sweden
14:00 – 14:10	<i>Discussion Session</i>
14:10 – 14:40	Afternoon Tea Break
14:40 – 14:45	Session Chair – Julie Bullas, Executive Director – Policy, Reform and Stakeholder Engagement, Office of the National Rail Safety Regulator
14:45 – 15:05	<b>Digital Transformation of the Rail Sector: What Impact on the Regulator?</b> Laurent Cebulski, Authorisations Director, EPSF (Etablissement Public de Sécurité Ferroviaire), France
15:05 – 15:35	<b>Innovative Technology Provides Advanced Protection to Railroad Workers</b> Jaime Maguire, Director of Safety Programs, Harsco Rail, USA
15:35 – 15:45	<i>Discussion Session</i>
15:45 – 16:00	<b>Close of Day 1</b> – Deb Spring, Chief Executive Officer & Executive Chair, Rail Industry Safety and Standards Board, Australia
17:00	Buses depart Hyatt
17:30 – 22:30	<b>Gala Dinner – Sandalford Wines, Caversham</b>

**Tuesday 15 October**

Time	Activity
09:00 – 09:05	<b>Welcome</b> Nat Nagy, Executive Director, Australian Transport Safety Bureau, Australia
	<b>Theme: Demonstrating Safety in New Technology</b>
09:05 – 09:10	Session Chair – Andrew Meier, Chief Executive Officer, Australasian Centre For Rail Innovation
09:10 – 09:30	<b>Regulation and Innovation in Australia</b> Sue McCarrey, National Rail Safety Regulator, Office of the National Rail Safety Regulator, Australia
09:30 – 09:50	<b>How Realistic is the Picture Provided by Your Assurance Regime?</b> Allan Spence, Interim Chief Quality Health, Safety and Environment Officer, Network Rail, UK
09:50 – 10:10	<b>On the Way to Virtual Certification: A NSA's Point of View</b> Laurent Cebulski, Authorisations Director, EPSF (Etablissement Public de Sécurité Ferroviaire) France
10:10 – 10:30	<b>BIM-AM-RS to Enhance Railway Safety in Hong Kong</b> KC Cheung, Chief Engineer, EMSD, Hong Kong SAR Government
10:30 – 10:50	<i>Discussion Session</i>
10:50 – 11:20	Morning Tea Break
11:20 – 11:35	<b>State Minister's Address   The Role of Innovation and Technology in WA's Future</b> <b>The Hon Rita Saffioti MP, Minister for Transport; Planning, Western Australia</b>
	<b>Theme: Regulation and innovation – performance (systems) based regulation</b>
11:35 - 11:40	Session Chair – Stuart Harrison, Head of Rail Operations, Roy Hill, Australia
11:40 – 12:00	<b>The ORR Risk Management Maturity Model: Assessing the Relationship Between Organisational Culture, Management and Performance</b> Jen Ablitt, Deputy Director Safety Strategy and Policy and Head of the UK Delegation to the Channel Tunnel Safety Authority, Office of Rail and Road, UK
12:00 – 12:20	<b>System Integration Requirements in Major Rail Projects in Australia</b> Raden Kusumo, Manager Major Projects, Office of the National Rail Safety Regulator, Australia
12:20 – 12:30	<i>Discussion Session</i>
12:30 – 13:30	Lunch Break
	<b>Theme: Automation Challenges</b>
13:30 – 13:35	Remarks from the Chair – Danny Harnedy, Head of Safety Health & Environment, Aurizon
13:35 – 13:55	<b>Autonomous Trains in an Open Environment: Collaboration Between Developer and Railway Safety Authority for a Successful Project</b> Samuel Boucher, Autonomous Freight Train Project Manager, SNCF, France Laurent Cebulski, Authorisations Director, EPSF (Etablissement Public de Sécurité Ferroviaire), France
13:55 – 14:15	<b>The Sixth Sensor: How IoT Smart Sensors Can Address Operational Challenges Introduced by Increasing Automation in Railways</b> Rodrigo Alvarez, Telecommunications Practice Director, Rail Systems Australia, Australia Fersy Ramon Philip Castillo, Graduate Consultant, Rail Systems Australia, Australia
14:15 – 14:25	<i>Discussion Session</i>
14:25 – 14:55	Afternoon Tea Break
	<b>Theme: Competence and skills in a more automated industry</b>
14:55 – 15:00	Remarks from the Chair – Kirby Jang, Director, Investigations - Rail/Pipeline, Transportation Safety Board of Canada, Canada
15:00 – 15:20	<b>How to Nurture and Deploy Competencies in the Railway Industry: A Plan for the Fourth Industrial Revolution</b> Dr Peaceman Sopazi, Regional Technical Manager – Eastern Region, Railway Safety Regulator, South Africa
15:20 – 15:40	<b>Re-thinking Competency-based Training: Building Skills to Support Resilient Performance</b> Allison McDonald, Managing Director, SystemIQ, Australia
15:40 – 15:50	<i>Discussion Session</i>
15:50 – 16:00	<b>Close of Day 2</b>

## Wednesday 16 October

Time	Activity
09:00 – 09:05	<b>Welcome</b> Sue McCarrey, National Rail Safety Regulator, Office of the National Rail Safety Regulator, Australia
	<b>Theme: Risk Management and Assurance</b>
09:05 – 09:10	Session Chair – Dr Ann Mills, Head of Health & Safety Management, RSSB, UK
09:10 – 09:30	<b>Transforming Rail Network Safety Through Equipment Safety &amp; Compliance Management on a Modern SaaS Platform</b> Mark Barrett, Chief Operating Officer, aquipa, Australia
09:30 – 09:50	<b>Digital Train Control: Functional Safety for AI Based Systems</b> David Milburn, Senior Technical Director, Global Leader – Digital Train Control, GHD, Australia Mike Erskine, Executive Advisor, GHD Advisory, Australia
09:50 – 10:10	<b>Compliance vs. Due Diligence: SFAIRP and its Interaction with System Safety and Assurance Approaches</b> Tim Procter, Senior Consultant, Indec Consulting, Australia
10:10 – 10:25	<i>Discussion Session</i>
10:25 – 10:55	Morning Tea Break
10:55 – 12:00	<b>Keynote: Captain David Evans, Qantas</b>
12:00 – 13:00	Lunch Break
	<b>Theme: Demonstrating Safety in New Technology</b>
13:00 – 13:05	Session Chair – Kay Doyle, Director of Health and Safety, Iarnród Eireann/Irish Rail, Ireland
13:05 – 13:25	<b>Innovation Through Automation LX Crossing Radar</b> Dave Farman, Manager BDM Europe, Rail Safety Division, IDS Corporation, UK
13:25 – 13:45	<b>Next-Generation Rail Safety Systems using Artificial Intelligence and Machine Learning</b> Tony Crosby, General Manager Services, 4Tel, Australia
13:45 – 14:05	<b>The Smarter Way of Using Fire Protection in Rolling Stock Applications</b> Manprit Singh Baweja, Regional Manager – APAC, Fogtec Brandschutz & GmbH Co. KG, India
14:05 – 14:20	<i>Discussion Session</i>
14:20 – 14:50	Break
14:50 – 15:35	<b>IRSC Update</b>
15:35 – 15:50	<b>Closing Ceremony, Tommy Little</b>
15:50 – 16:00	<b>Close of Conference</b>
17:30	Buses depart Hyatt
18:00 – 21:00	<b>Farewell Function – The Rooftop at The Lucky Shag</b>

## Thursday 17 October

10:30 – 15:30	<b>Technical Site Visits   Speno Rail Maintenance Facility &amp; Roy Hill Remote Operations, Perth</b>
---------------	--

## Friday 18 October

05:15 – 19:00	<b>Technical Site Visits   Roy Hill &amp; Pilbara Ports Authority, Port Hedland</b>
---------------	---