



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	Stakeholder Meeting: Regulatory Bodies Stakeholder Meeting: Investigation Bodies Stakeholder Meeting: Industry Associations Stakeholder Meeting: Infrastructure Managers & Train Operators Stakeholder Meeting: Contractors, Suppliers and Manufacturers
17:30	Buses depart Hyatt
18:00 – 20:00	Welcome Reception - City of Perth Surf Life Saving Club

Monday 14 October

Time	Activity
	Safety and Administration Briefing
09:00 – 09:15	Welcome to IRSC
09:15 – 09:25	Welcome to Country
09:25 – 09:55	State Minister’s Address (subject to final confirmation)
	Theme: Demonstrating Safety in New Technology
09:55 – 10:00	Remarks from the Chair
10:00 – 10:20	Digitalisation Reducing Risk in Irish Rail Kay Doyle, Director of Health and Safety, Iarnród Eireann/Irish Rail, Ireland Cathal Mangan, Technical Manager, Iarnród Eireann/Irish Rail, Ireland
10:20 – 10:40	SNCF Rail Safety and the Fourth Industrial Revolution Frédéric Delorme, Chief Safety Officer, SNCF, France
10:40 – 11:00	Digital Transformation of the Rail Sector: What Impact on the Regulator? Laurent Cebulski, Authorisations Director, EPSF (Etablissement Public de Sécurité Ferroviaire), France
11:00 – 11:15	<i>Discussion Session</i>
11:15 – 11:45	Break
	Theme: Risk Management and Assurance



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11:45 – 11:50	Remarks from the Chair
11:50 – 12:10	How Do We Establish the Measures of Human Error through Technological Innovation such as Big Data, AI, and IOT by Open Innovation? Toshiyuki Murai, General Secretary of Morioka Shinkansen branch, Morioka District Office, JREU, Japan
12:10 – 12:30	Root Cause Analysis of Train Collisions in South Africa Moses Shaba, Technical Specialist - Human Factors, Railway Safety Regulator, South Africa
12:30 – 12:50	Risk Management of Operators Interpretation of Information from New Technology Eva-Lotta Högberg, Senior investigator and IIC, Swedish Accident Investigation Authority, Sweden
12:50 – 13:05	<i>Discussion Session</i>
13:05 – 14:05	Lunch Break
	Theme: Operational Demands Vs Financial Constraints “Don’t save yourself into trouble”
14:05 – 14:10	Remarks from the Chair
14:10 – 14:30	The Lack of Synergy between Operational and Financial Managers in the Railways Mabila Mathebula, Specialist - Project Management, Railway Safety Regulator, South Africa Dr Peaceman Sopazi, Regional Technical Manager – Eastern Region, Railway Safety Regulator, South Africa Professor John Smallwood, Professor - Construction Management, Nelson Mandela University, South Africa
14:30 – 14:50	Toward A Moral Framework for Rail Passenger Safety: Occupant Protection Anne Garcia, Systems Safety Investigator for Railroad, Pipeline and Hazardous Materials, National Transportation Safety Board, Washington, D.C., USA Bob Beaton, Chief, Systems Safety for Railroad, Pipeline and Hazardous Materials National Transportation Safety Board, Washington, D.C., USA
14:50 – 15:10	Risk Analysis Methodology and Prioritisation of Safety Investments Frédéric Delorme, Chief Safety Officer, SNCF, France
15:10 – 15:30	Reliability and Operational Readiness versus Safety Requirements: From Conflict to Compromise Dr Vesna Dakic, Senior Specialist Center of Excellence (CoE) - Fire Safety, Product Safety and Reliability, Bombardier Transportation, Germany
15:30 – 15:50	<i>Discussion Session</i>
15:50 – 16:00	Close of Day 1
17:00	Buses depart Hyatt
17:30 – 22:30	Gala Dinner – Sandalford Wines, Caversham

Tuesday 15 October

Time	Activity
09:00 – 09:05	Safety and Administration Briefing
09:05 – 09:35	Federal Minister’s Address (subject to final confirmation)
	Theme: Demonstrating Safety in New Technology
09:35 – 09:40	Remarks from the Chair
09:40 – 10:00	Regulation and Innovation in Australia Sue McCarrey, National Rail Safety Regulator, Office of the National Rail Safety Regulator, Australia
10:00 – 10:20	On the Way to Virtual Certification: A NSA’s Point of View Laurent Cebulski, Authorisations Director, EPSF (Etablissement Public de Sécurité Ferroviaire) France
10:20 – 10:40	BIM-AM-RS to Enhance Railway Safety in Hong Kong KC Cheung, Chief Engineer, EMSD, Hong Kong SAR Government



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10:40 – 10:55	<i>Discussion Session</i>
10:55 – 11:25	Break
	Theme: Regulation and innovation – performance (systems) based regulation
11:25 – 11:30	Remarks from the Chair
11:30 – 11:50	The ORR Risk Management Maturity Model: Assessing the Relationship Between Organisational Culture, Management and Performance 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
11:50 – 12:10	System Integration Requirements in Major Rail Projects in Australia Raden Kusumo, Manager Major Projects, Office of the National Rail Safety Regulator, Australia
12:10 – 12:20	<i>Discussion Session</i>
	Theme: Competence and skills in a more automated industry
12:20 – 12:40	How to Nurture and Deploy Competencies in the Railway Industry: A Plan for the Fourth Industrial Revolution Mabila Mathebula, Specialist - Project Management, Railway Safety Regulator, South Africa Dr Peaceman Sopazi, Regional Technical Manager – Eastern Region, Railway Safety Regulator, South Africa Professor John Smallwood, Professor - Construction Management, Nelson Mandela University, South Africa
12:40 – 13:00	Re-thinking Competency-based Training: Building Skills to Support Resilient Performance Allison McDonald, Managing Director, SystemIQ, Australia
13:00 – 13:10	<i>Discussion Session</i>
13:10 – 14:10	Lunch Break
	Theme: Automation Challenges
14:10 – 14:15	Remarks from the Chair
14:15 – 14:35	Autonomous Trains in an Open Environment: Collaboration Between Developer and Railway Safety Authority for a Successful Project Samuel Boucher, Autonomous Freight Train Project Manager, SNCF, France Laurent Cebulski, Authorisations Director, EPSF (Etablissement Public de Sécurité Ferroviaire), France
14:35 – 14:55	The Sixth Sensor: How IoT Smart Sensors Can Address Operational Challenges Introduced by Increasing Automation in Railways Rodrigo Alvarez, Telecommunications Practice Director, Rail Systems Australia, Australia Fersy Ramon Philip Castillo, Graduate Consultant, Rail Systems Australia, Australia
14:55 – 15:05	<i>Discussion Session</i>
15:05 – 15:35	Break
	Theme: Demonstrating Safety in New Technology
15:35 – 15:40	Remarks from the Chair
15:40 – 16:00	Innovative Technology Provides Advanced Protection to Railroad Workers Jaime Maguire, Director of Safety Programs, Harsco Rail, USA
16:00 – 16:20	Innovation Through Automation LX Crossing Radar Dave Farman, Manager BDM Europe, Rail Safety Division, IDS Corporation, UK
16:20 – 16:30	<i>Discussion Session</i>
16:30 – 16:45	Close of Day 2



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Wednesday 16 October

Time	Activity
9:00 – 9:05	Safety and Administration Briefing
	Theme: Risk Management and Assurance
9:05 – 9:10	Remarks from the Chair
9:10 – 9:30	Transforming Rail Network Safety Through Equipment Safety & Compliance Management on a Modern SaaS Platform Mark Barrett, Chief Operating Officer, aquipa, Australia
9:30 – 9:50	Digital Train Control: Functional Safety for AI Based Systems David Milburn, Senior Technical Director, Global Leader – Digital Train Control, GHD, Australia Mike Erskine, Executive Advisor, GHD Advisory, Australia
9:50 – 10:10	Compliance vs. Due Diligence: SFAIRP and its Interaction with System Safety and Assurance Approaches Tim Procter, Senior Consultant, Indec Consulting, Australia
10:10 – 10:25	<i>Discussion Session</i>
10:25 – 10:55	Break
10:55-11:55	Keynote: Captain David Evans, Qantas
	Theme: Demonstrating Safety in New Technology
11:55 – 12:00	Remarks from the Chair
12:00 – 12:20	Ensuring Safety During Construction of Dedicated Freight Railway Corridor in India Veer Narayan, Vice President, Railways and Metros, SYSTRA MVA Consulting, India
12:20 – 12:40	Next-Generation Rail Safety Systems using Artificial Intelligence and Machine Learning Tony Crosby, General Manager Services, 4Tel, Australia
12:40 – 12:50	<i>Discussion Session</i>
12:50 – 13:50	Lunch Break
	Theme: Demonstrating Safety in New Technology
13:50 – 13:55	Remarks from the Chair
13:55 – 14:15	The Smarter Way of Using Fire Protection in Rolling Stock Applications Manprit Singh Baweja, Regional Manager – APAC, Fogtec Brandschutz & GmbH Co. KG, India
14:15 – 14:35	Broken Rail Detection-Reliable Onboard Solution Stewart Blair, Head of Development, MRX Technologies
14:35 – 14:45	<i>Discussion Session</i>
14:45 – 15:15	Break
15:15 – 15:45	IRSC Update & Close of Conference
17:30	Buses depart Hyatt
18:00 – 21:00	Farewell Function – The Rooftop at The Lucky Shag

Thursday 17 October – Technical Site Visits | Speno Rail Maintenance Facility & Roy Hill Remote Operations, Perth

Friday 18 October– Technical Site Visits | Roy Hill & Pilbara Ports Authority, Port Hedland