

SWISSOTEL SYDNEY
18-20 MAY 2016



RISK2016

RISK ENGINEERING CONFERENCE

RISK & OPPORTUNITY IN A STATE OF DEVELOPMENT

CONFERENCE & PRE-CONFERENCE WORKSHOP

SPONSORS



Risk
Engineering
Society



ENGINEERS
AUSTRALIA

**TECHNOLOGY
SUPPORTERS**



KEYNOTE & INVITED SPEAKERS



PROF S. TRAVIS WALLER

TOPIC: Analytics for Addressing Uncertainty in Strategic Transport Network Planning



STEVE BICKLEY

TOPIC: What does risk-based regulation mean for rail safety?



KARL BRIDGES

TOPIC: Using reduction and risk introduction through ITS



ASHLEY BRINSON

TOPIC: Risks with infrastructure megaprojects using international benchmarks



DALE COOPER

TOPIC: Quantitative analysis: about right or precisely wrong



KARL DAVEY

TOPIC: ERM, From 'Enterprise Risk Management' to 'Everyone's a Risk Manager'



DR VINAYAK V DIXIT

TOPIC: Risk attitudes and perceptions and impact on usage of autonomous vehicles



DAVID HULETT

TOPIC: Intergrated cost schedule risk assessment



MIKE MCCLOSKEY

TOPIC: An effective Risk Management and Change Controls platform in delivery of major projects



DREW RAE

TOPIC: When does risk assessment reveal and when does it merely reassure



LISA SHI

TOPIC: Security and resilience risks for critical facilities



PETER TRUEMAN

TOPIC: Simple, plain English project contingency and risk management



ALEX WONG

TOPIC: Integrated project planning and control for major projects case study

REGISTRATION FEES

Registration	Standard	Late
	19 Mar - 16 Apr 2016	19 Apr - 16 May 2016
EA/RES member full conference registration and workshop • Conference registration • 1 x day workshop	\$1,485.00	\$1,620.00
Non member full conference registration and workshop • Conference registration • 1 x day workshop	\$1,650.00	\$1,820.00
Speaker registration • Conference registration • 1 x day workshop	\$1,335.00	N/A
EA/RES member full conference registration only	\$950.00	\$1,200.00
Non member full conference registration only	\$1,250.00	\$1,440.00
Speaker full conference registration only	\$670.00	N/A
Student registration (conference dinner not included)	\$490.00	\$550.00
David Hullett workshop only – Wed 18 May 2016	\$1,100.00	\$1,200.00
Half day workshops – Wed 18 May 2016	\$500.00	\$600.00
Additional conference dinner tickets	\$140.00	\$140.00

WORKSHOP PROGRAM

Wednesday 18 May			
0800 – 0830	Registration		
0830 – 1215	WORKSHOP 1 Integrated Cost Schedule Risk Assessment Dr. David Hulett	WORKSHOP 2 Risk Analysis Approach for Target Cost Contract Lisa Shi Head of Risk Asia, Arcadis	WORKSHOP 3 Human Factors, A systems approach to risk assessment, analysis, and prevention Prof Paul Salmon & Dr. Guy Walker
1000 – 1015	Morning Tea		
1215 – 1315	Lunch		
1315 – 1700	CONTINUATION OF WORKSHOP 1	WORKSHOP 4 How to be an intelligent customer for risk and safety analysis Dr Drew Rae Lecturer, Safety Science Innovation Lab	WORKSHOP 5 Resilience engineering as a form of risk management Karl Bridges
1515 – 1530	Afternoon Tea		
1700 – 1800	Pre-conference Networking & Drinks		

CONFERENCE PROGRAM

Thursday 19 May

0800 – 0830	Registration		
0830 – 0845	Welcome and Introduction by Chair		
0845 – 1000	<p>PLENARY SESSION</p> <p>Professor Fabio Ciravegna Department of Computer Science, University of Sheffield <i>Six billion human sensors to support management of small and large scale emergencies</i></p> <p>Professor S. Travis Waller University of New South Wales <i>Analytics for Addressing Uncertainty in Strategic Transport Network Planning</i></p> <p>Associate Professor, Dr Guy Walker Heriot Watt University, Scotland <i>Human Factors risks related to ITS Infrastructure</i></p>		
1000 – 1030	Morning tea		
1030 – 1230	STREAM 1 PROJECT RISK & CONTINGENCY	STREAM 2 SECURITY RISK	STREAM 3 SAFETY RISK
1030 – 1110	<p>Dr. David Hulett David Hulett & Associates, <i>Integrated Cost Schedule Risk Assessment</i></p>	<p>Lisa Shi Head of Risk Asia, Arcadis <i>Security and resilience risks for critical facilities</i></p>	<p>Dr. Stephen Weber Safety Action Pty Ltd <i>Zero Access - an international machine guarding program</i></p>
1110 – 1150	<p>Ashley Brinson Executive Director The Warren Centre <i>Risks with infrastructure megaprojects using international benchmarks</i></p>	<p>Allard Kernkamp Cyber security / Risk management, TNO, The Netherlands <i>The internet of things and risk management</i></p>	<p>David Skegg Central Queensland University <i>Quality of safety advice in industry and government - who cares?</i></p>
1150 – 1230	<p>Goran Gelic McCullough Robertson <i>BIM in Australian standards contracting risks and liabilities</i></p>	<p>Carl Pettersson Holmes Fire <i>Risk reduction of multifunctional buildings - Special emphasis on antagonistic attacks and domino effects</i></p>	<p>Geoffrey Hurst ENGINEOHS <i>Safety in design and safety case</i></p>
1230 – 1330	Lunch		

CONFERENCE PROGRAM

Thursday 19 May			
1330 – 1450	STREAM 1 PROJECT RISK & CONTINGENCY	STREAM 2 RISK MANAGEMENT	STREAM 3 SAFETY RISK
1330 – 1410	<p>Mr Pedram Danesh-Mand Risk Engineering Society</p> <p>RES Contingency Guideline New coming guideline for cost and schedule contingency management</p>	<p>Laurie Bowman Synchrony</p> <p>A guide to designing and implementing an effective risk matrix</p>	<p>Dr. Drew Rae Lecturer, Safety Science Innovation Lab, Griffith University</p> <p>When does risk assessment reveal, and when does it merely reassure</p>
1410 – 1450	<p>Santosh Bhat Australasian Project Planning</p> <p>Modelling weather risk for project schedule risk analysis</p>	<p>Robert Relf Alive Information</p> <p>Who is a risk engineer?</p>	<p>Jim Whiting Risk at Workplaces Pty Ltd</p> <p>Clarifying common misuses of safety risk language</p>
1450 – 1520 Afternoon tea			
1520 – 1640	STREAM 1 PROJECT RISK & CONTINGENCY	STREAM 2 RISK MANAGEMENT	STREAM 3 ENVIRONMENTAL RISK
1520 – 1600	<p>Mike McCloskey Managing Director Aquenta Consulting</p> <p>An effective risk management and change controls platform in delivery of major projects</p>	<p>Karl Davey Head of Risk, Transurban</p> <p>ERM From 'Enterprise Risk Management' to 'Everyone's a Risk Manager</p>	<p>Leigh Appleyard ACOR Consultants [CC] Pty Ltd</p> <p>A critique on assessing and managing the risks of climate change</p>
1600 – 1640	<p>David Cox Brisbane City Council</p> <p>Delivering complex infrastructure: the Brisbane City Council experience</p>	<p>Alexandra Meldrum National Congress Member, Engineers Australia.</p> <p>Sustainability and risk</p>	<p>Ian Thomas I F Thomas & Associates</p> <p>The post fossil fuel dilemma</p>
1640 – 1700 Panel wrap-up, Announcements			
1700 – 1800 Networking & Drinks			
1900 – 2300 Conference Gala Dinner			

CONFERENCE PROGRAM

Friday 20 May

0800 – 0830	Registration		
0830 – 0845	Welcome and Summary of Day One		
0845 – 1000	<p>PLENARY SESSION</p> <p>Jim Modrouvanos Executive Director Asset Standard Authority, Transport for NSW</p> <p>Opening Address</p> <p>Steve Bickley Director, Safety and Risk at Office of the National Rail Safety Regulator</p> <p>What does Risk-based Regulation mean for Rail Safety?</p> <p>Richard Palmer Head of DNV GL's oil & gas operations in the Australia, PNG and NZ region</p> <p>Dynamic Barrier Management</p>		
1000 – 1030	Morning tea		
1030 – 1230	STREAM 1 – PROJECT RISK & CONTINGENCY	STREAM 2 – DESIGN & SYSTEM SAFETY	STREAM 3 – EMERGENCY RISK
1030 – 1110	<p>Dr. Dale Cooper Broadleaf</p> <p>Quantitative analysis: about right or precisely wrong</p>	<p>Karl Bridges Director, HFE</p> <p>Using reduction and risk introduction through ITS</p>	<p>David Martin DavRisk & Resilience Solutions</p> <p>Crisis management & disaster recovery</p>
1110 – 1150	<p>Brendon Gardner University of Canterbury</p> <p>Communicating risk of a highway conceptual cost estimate using stochastic methods</p>	<p>Edmund Ang AECOM Australia Pty Ltd</p> <p>Advancing the acceptance of risk based design beyond engineers: past, present and future states</p>	<p>Dr. Patrick Walker R4Risk</p> <p>Using stability classes F and G in the development of emergency response plans</p>
1150 – 1230	<p>Peter Trueman Industry General Manager - Transport Infrastructure, John Holland</p> <p>Simple, plain English project contingency and risk management</p>	<p>Ruben Welschen Scott Lister</p> <p>Safety assurance in transport; the good, the bad and the benefits</p>	<p>Michela Leedow & Nicholas Johnston R4Risk</p> <p>Consequence modeling for contingency plans</p>
1230 – 1330	Lunch		

CONFERENCE PROGRAM

Friday 20 May

1330 – 1530	STREAM 1 - PROJECT RISK & CONTINGENCY	STREAM 2 – DESIGN & SYSTEM SAFETY	STREAM 3 – ENERGY & DANGEROUS GOODS
1330 – 1410	<p>Alex Wong Principal Manager Program , TfNSW Sydney Metro</p> <p>Integrated project planning and control for major projects case study</p>	<p>Dr. Vinayak V. Dixit Deputy Director, UNSW rCITI</p> <p>Risk attitudes and perception and impact on usage of autonomous vehicles</p>	<p>Jeff Jones Project Delivery Assurance</p> <p>Challenges with developments occurring on top of existing petroleum pipelines.</p>
1410 – 1450	<p>Santhosh Therakam Aqenta Consulting</p> <p>How to map a true risk profile to arrive at the right contingency for successful management of a complex project</p>	<p>Michael Erskine GHD</p> <p>A possible risk based approach to designing large electrical storage facilities</p>	<p>Dr. Limao Zhang University of Alberta</p> <p>Safety risk assessment of tailings ponds: A simulation approach</p>
1450 – 1520	Afternoon tea		
1520 – 1640	STREAM 1 - PROJECT RISK & CONTINGENCY	STREAM 2 – DESIGN & SYSTEM SAFETY	STREAM 3 – ENERGY & DANGEROUS GOODS
1520 – 1600	<p>Amr Fathy The American University in Cairo</p> <p>Genetic algorithms for two-phase construction dynamic site layout</p>	<p>Marcus Punch Marcus Punch Pty. Ltd.</p> <p>Think control, not risk!</p>	<p>Richard Lightfoot</p> <p>Fracking, unconventional gas and its risks</p>
1600 – 1640	<p>Greg Wruck GNT Project Solutions</p> <p>The devil is the detail and the law of unintended consequences</p>	<p>Matt Goode Black Ice Systems</p> <p>Risk analysis and functional safety in mining</p>	<p>Amanda Wylde ACOR MCE</p> <p>Dangerous goods transport compliance - A simplified and effective approach</p>
1640 – 1700	Conference Wrap-up and Announcements		



RISK 2016
Conference Secretariat
Engineers Australia

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