



Queensland

**IPWEA**INSTITUTE OF PUBLIC WORKS  
ENGINEERING AUSTRALASIA

# Annual CONFERENCE

Royal International Convention Centre, Brisbane | 22-24 October 2019

IN PARTNERSHIP WITH THE  
BRISBANE CITY COUNCIL

Day 1	Tuesday 22 October			
10.30am	Registration opens for Design Thinking Session			
11:00am – 12:30pm	Design Thinking Session (CASE Workshop for U35 delegates) – Sponsored by Aurecon			
12:30pm - 1:30pm	Registrations open and Lunch			
1:30pm - 4:45pm	Tech Tours			
	Tour 1	Tour 2	Tour 3	Tour 4
	Brisbane Airport Corporation	Kingsford Smith Drive	Komatsu Wacol Facility Tour	Luggage Point Innovation Centre
5:00pm - 7:00pm	Welcome Function – Exhibition Area (Royal International Convention Centre) Sponsored by A2K Technologies			

Day 2	Wednesday 23 October			
7:30am	Registration desk open			
	Topic	Presenter		
8:30am - 8:40am	Introduction and Acknowledgement of Traditional Owners			
8:40am - 9:00am	Conference welcome	Lord Mayor Adrian Schrinner	Brisbane City Council	
9:00am - 10:00am	Keynote Presentation – Robotics in the Future of Work	Marita Cheng	2012 Young Australian of the Year	
10:00am - 10:30am	Morning Tea in Exhibition Area – sponsored by SurePact			
10:30am - 11:10am	Planning for a Sustainable & Resilient City	Mr Hengky Tay	Singapore Urban Redevelopment Authority	
11:10am - 11:50am	The Death of the Job, the Future of Work	David Bartlett	Former Premier of Tasmania	
11:50am - 12:30pm	Panel Discussion: Future Australia - planning for our communities in 2050			
12:30pm - 1:30pm	Lunch in Exhibition Area – sponsored by LGIAsuper			
	Stream 1: A Strategic Approach to Safer Roads  Sponsored by Point8	Stream 2: Delivering Surface Water Solutions	Stream 3: Planning for our Community	Stream 4: Water Utilities  Sponsored by Interflow
1:30pm – 2:00pm	Using AusRAP and ANRAM data and assessments to reduce casualty crashes on Queensland roads  Michael Gillies, TMR	Thabeban master drainage strategy – a wholistic approach to reducing flooding and increasing development yield in flat terrain  Nicole Bichel, SLR Consulting	How should I decide? Development assessment and conditions  Sarah Hausler, McCullough Robertson	Queensland Urban Water Industry Strategy  Trevor Dean, Fraser Coast Regional Council
2:00pm – 2:30pm	Safe System Assessments	Evolution in flood modelling based on the example of the Eudlo Creek crossing over the	Delivering Place-based Infrastructure and Land Use Planning using Digital Twins	Understanding and optimising disinfection performance in a water supply network



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	Kenn Beer, Safe System Solutions Pty Ltd	<i>Bruce Highway</i> Anne Kolega, BMT Global	Jason Natoli, Integran	Neels Kloppers, Gladstone Regional Council & Roger Crozier, Stantec
2:30pm – 3:00pm	<i>Applying Safe Systems principles to raised priority crossings for pedestrian and cyclist paths</i>	<i>Waterways as social assets: filling the gap in waterway design guidelines</i> Katie Fletcher, ARUP	<i>Assessment of pavement impacts of development: lessons from the Department of Transport and Main Roads</i>	<i>Townsville's water supply and sewerage demand by land use</i> Darron Irwin, City of Townsville
	Prue Oswin, Sidelines Traffic		Bradley Jones, Premise	
3:00pm – 3:30pm	<b>Afternoon Tea in Exhibition Area</b>			
3:30pm - 4:00pm	<i>Future innovations for road networks'</i>	Michael Caltabiano	ARRB	
4:00pm - 4:30pm	<i>Traffic Management Harmonisation</i>	Dr. Dan Sullivan	Austroads	
4:30pm - 5:15pm	IPWEAQ Futures Challenge – Sponsored by Premise			
6:00pm - 7:00pm	<b>Pre-dinner drinks in Exhibition Area – Sponsored by Leading Roles</b>			
7:00pm – 11:00pm	<b>Excellence Awards Gala Dinner 2019 – Hall C (Royal International Convention Centre)</b> <i>Sponsored by Leading Roles</i>			

Day 3	Thursday 24 October			
7:30am	Registration desk open			
	Topic	Presenter		
8:30am - 8:45am	Street Planning & Design Manual	The Honourable Cameron Dick MP	Department of State Development, Manufacturing, Infrastructure and Planning	
8:45am – 9:25am	Keynote Presentation – The man who found a unique way to represent his country. <b>Sponsored by Shepherd</b>	Mick Collis	Author, Poet and Sports commentator	
9:25am - 10:05am	A resilient Queensland	Brendan Moon	Queensland Reconstruction Authority	
10:05am – 10:30am	Pretengineers	Jack Aubort Ryan Loomans		
10:30am - 11:00am	Morning Tea in Exhibition Area			
	Stream 5: Sustainable Flexible Pavements	Stream 6: Innovation in Structures	Stream 7: Optimising Asset Data	Stream 8: Professional Practice
11:00am – 11:30am	Getting better performance from bituminous materials - from waste to sustainability	Enabling better bridge management by understanding risk  Dr Tim Heldt, ARRB	A Council’s transformational journey to allow improved asset management.	The importance of dotting your "i's" and crossing your "t's" - a snapshot of key considerations for delivering your project



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	Rob Vos, AAPA		Anna Scott, Gladstone Regional Council	Matt Bradbury, McCullough Robertson
11:30am – 12:00pm	<i>Optimising the use of construction and demolition waste in granular and stabilised pavement materials</i>	<i>Scenic Rim Council and InQuik flood resilience project for Brookland Bridge replacement</i>  Logan Mullaney, InQuik	<i>PANIC STATIONS! When State Government funding rules our asset condition assessment schedule</i>	<i>Intuition, infrastructure and overcoming bias</i>  James Thorne, WSP Opus (2019 Hynds NZ Best Paper Award)
	Lincoln Latter, ARRB, & Stephen Hulme, Department of Transport & Main Roads		Shelley Burchett, Proterra Group Phil Herron, South Burnett Regional Council	
12:00pm – 12:30pm	<i>Comparison of deep lift asphalt and foamed bitumen treatment options for heavily trafficked pavements</i>  Scott Young, Stabilised Pavements of Australia	<i>Toowoomba Second Range Crossing – constructing the viaduct</i>  Isaac Kirsch, Department of Transport & Main Roads	<i>Stormwater pipe condition assessment – if only animals could talk</i>  Clarissa Campbell, Moreton Bay Regional Council	<i>Board of Professional Engineers update</i>  Dawson Wilkie, Board of Professional Engineers
12:30pm - 1:30pm	<b>Lunch in Exhibition Area (12:45 – 1:15, AGM with special resolutions)</b>			
	<b>Stream 9: Effective Project Delivery</b>	<b>Stream 10: Sustainable Asset Management</b>	<b>Stream 11: Community Projects</b>	<b>Stream 12: Women in Public Works Engineering Sponsored by GHD</b>
1:30pm – 2:00pm	<i>Logan Enhancement Project – delivering innovative solutions to overcome the challenges of upgrading an existing motorway</i>  Andrew Richardson, Transurban Queensland	<i>Managing the cost of local government services</i>  Rachel Vagg, Queensland Audit Office	<i>Resurrecting an Australian icon: rebuilding the Waltzing Matilda Centre in outback Queensland</i>  Brian Jackson, Peak Services	<i>Masterclass – Diversity as a superpower</i>  Facilitator: Dr Jillian Kenny
2:00pm – 2:30pm	<i>North Burnett Regional Council takes a new approach to road service delivery</i>  Darren Shepherd, Shepherd Services &	<i>Adaptive asset management: a pathway to the evidence-based and sustainable management of complex infrastructure assets</i>	<i>Brisbane Valley Rail Trail – Australia's longest trail</i>  Andrew Johnson, Somerset Regional Council	





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	Justin Kronk, North Burnett Regional Council	Ben Penhallurick, Renew Solutions & James Coathup, Renew Solutions	
2:30pm – 3:00pm	<i>Scenic Highway, Statue Bay – Cyclone Marcia Reconstruction Project</i>  Dan Toon, Livingstone Shire Council	<i>Transitioning to an asset management ecosystem</i>  Kieran Shirey, LOGiT Australia	<i>Construction of Hughenden Recreational Lake</i>  Hari Boppudi, Flinders Shire Council
3:00pm – 3:30pm	<b>Afternoon Tea in Exhibition Area</b>		
3:30pm - 3:45pm	IPWEAQ Learning Hub	Nadia Marks	IPWEAQ
3:45pm - 4:30pm	<b><i>The Great Debate: Rural and regional engineers are more adaptable than their city counterparts.</i></b>		
4:30pm - 4:45pm	IPWEAQ President's Address		
5:30pm – 8:30pm	<b>Closing Ceremony (Welcome to Bowen Hills) – Sponsored by PelicanCorp</b>		

<b>Day 4</b>	<b>Friday 25 October</b>
8:30am	<b>Registration (Rydges Fortitude Valley)</b>
9:00am – 1:00pm	<b>SPDM Consultation Workshop</b>