

FINAL PROGRAM

Sunday 1 May 2022

12.00pm – 4.00pm

IPWEA Australasia Board Meeting (by invitation)

6.00pm – 8.00pm

Welcome Reception – Adelaide Convention Centre sponsored by 

Monday 2 May 2022

7.30am – 8.15am

Conference Registration
Breakfast at Trade Display in the Exhibition Hall


Session 1 (Plenary)

Official Opening Ceremony & Welcome

8.15am – 10.00am

Keynote Address – Shane Fitzsimmons, Commissioner Resilience NSW. Topic: *“Resilience in the Face of Adversity”*

10.00am – 10.30am

Morning Tea sponsored by 

Session 2




2A: Managing the Environment & Climate Change



2B: Asset Management – Introduction

2C: Road Pavements & Recycled Materials

2D: Good Stuff I

Location	Hall L	City Room 1	City Room 2	City Room 3
Chair	Megan Woodward	Ben Clark	Madeleine Bekavac	Jarred Collins
10.30am – 10.52am	Auckland’s Road to Electric Public Transport – Why So Bumpy? Myles Lind Anna Percy Auckland Transport (NZ)	IPWEA Whitepaper - Best Practice Asset Management Steve Verity IPWEA (VIC)	Austrroads Research on Recycled Materials in Road Pavements Ross Guppy Austrroads (NSW)	Cumberland City Council Delivering Innovative Infrastructure Solutions to the Community Nitin Gurjar Cumberland City Council (NSW)
10.52am – 11.14am	An Integrated Asset Management Framework for Green, Natural, and Gray Assets Heather Himmelberger Southwest EFC (USA)	Climbing the Mountain – Achieving a Successful Audit Outcome Timothy McCarthy Morrison Low (NSW)	From Landfill to Road Fill – How to Optimise the Use of Waste in Asphalt Trevor Distin COLAS (NSW)	Stakeholder Engagement Lessons Learned from the Development of the Wunggurwil Dhurrung Centre Sylvia Janus Moonee Valley City Council (VIC) Ellis Hughes Wyndham City Council (VIC)
11.14am – 11.36am	Thames – Shall We Stay, or Shall We Go? Emily Walker Edward Guy Rationale Ltd (NZ)	A Revolutionary Digital Experience in Asset Management Planning Piers Duggan City of Mitcham (SA)	Delegates please note there are no presentations in this time slot	Public Realm Projects & Their Role in Community Well-being – Post Lockdowns Eliza MacLennan COMPLETE Urban (NSW)
11.36am – 12.00pm	Public Works and the Effect on Climate Change Christie Nguyen COMPLETE Urban (NSW)	Fit for Purpose Specifications for Managing Community Assets Nandini Mehta NATSPEC (NSW)	Making Decisions to Use Alternative Material in Public Works – Multi-Criteria Decision Analysis Mayuri Wijayasundara Deakin University (VIC)	Frangible Poles for Motorcycle Safety Kenn Beer Safe System Solutions (VIC)

12.00pm – 1.00pm					Lunch sponsored by 
Session 3 1.00pm – 2.30pm	3A: Managing the Environment & Climate Change	3B: Asset Management / Decision Support	3C: Bridges	3D: Smart Parking Forum	
Location	Hall L	City Room 1	City Room 2	City Room 3	
Chair	Megan Woodward	Phil Burton	Rita Excell	Gerry Gannon	
1.00pm – 1.22pm	Summary Findings of the 2021 IPCC Sixth Assessment Report on Climate Change Science, Impacts, Adaptation and Mitigation Jacqueline Balston IPWEA (SA)	Information Management System for Road Network and Smart Assets – South Australia Experience Nabin Pradhan DM Roads (NSW)	Bridge Network Analysis Program Hai Le Bridge Network Analysis (QLD)	Smart Parking Forum Open to all conference delegates A half day forum as part of the IPWEA Emerging Technology Stream  See breakout program available as a separate PDF from conference website Proudly sponsored by 	
1.22pm – 1.44pm	Managing Urban Heat Under Climate Change Fahim Tonmoy BMT (QLD)	Challenges in Long Term Road Renewal Planning Justin Weligamage Toowoomba Regional Council (QLD)	Pultruded Fibre Reinforced Polymer Composite Bridge Deck Ali Mohammed Wagners CFT (QLD)		
1.44pm – 2.06pm	Applying Climate Hazard Science to our Asset Management Models Ashay Prabhu Michelle Walker City of Greater Geelong (VIC)	Building Blocks to Success: Rebuilding Asset Management at City of Ryde Marcus Apicella City of Ryde (NSW) Nicola Daaboul Brightly (NSW)	Widening and Strengthening Innovations on the Eunony Bridge Irene Scott Pitt & Sherry (VIC)		
2.06pm – 2.30pm	IPCC Q&A Session	Sticky Stones – Linking Laboratory Testing to on Road Performance of Unsealed Road Materials Rod Ellis Tonkin Consulting (SA)	Age Defying Bridge using Sustainable and Durable Materials Darren Lutze Incomat (SA) Ross George Austeng (VIC)		
2.30pm – 3.00pm	Afternoon Tea				

Session 4 3.00pm – 4.30pm	4A: Climate Resilient Assets Workshop	4B: Asset Management / Decision Support	4C: Road Pavements	4D: Smart Parking Forum
Location	Hall L	City Room 1	City Room 2	City Room 3
Chair	Phil Burton	Kathryn Johnson	Jarred Collins	Gerry Gannon
3.00pm – 3.22pm	<p>Launch of IPWEA Practice Note 12.2: Climate Resilient Materials for Infrastructure Assets</p> <p>Jacqueline Balston IPWEA Director of Sustainability (SA)</p>	<p>Transformation of a City's Asset Management from Renewal/Condition Assessment Based Asset Management to Community Asset Management</p> <p>Dameon Roy City of Salisbury (SA)</p> <p>John Devine City of Salisbury (SA)</p>	<p>Proven Methods to Double the Life of Asphalt Roads</p> <p>Ross Ioakim ASI Solutions (UK)</p>	<p>Smart Parking Forum</p> <p>Open to all conference delegates</p> <p>A half day forum as part of the IPWEA Emerging Technology Stream</p>  <p>See breakout program available as a separate PDF from conference website</p> <p>Proudly sponsored by</p> 
3.22pm – 3.44pm	<p>Resilient Materials for Designing and Managing Assets Under a Changing Climate</p> <p>Fahim Tonmoy BMT (QLD)</p>	<p>Road Network Management with Artificial Intelligence</p> <p>David Paine Fulton Hogan (VIC)</p>	<p>Digital Transformation in Pavement Maintenance in City of Melbourne</p> <p>Leigh Goullet Citywide (VIC)</p>	
3.44pm – 4.06pm	<p>A Hands-on Demonstration and Workshop in the Use of PN12.2</p> <p>Jacqueline Balston IPWEA Director of Sustainability (SA)</p>	<p>National Service Level Standards for Roads – Progress Report</p> <p>Gareth Prosser Department of Infrastructure, Transport, Regional Development and Communications (ACT)</p>	<p>Caltrans Gap Graded Asphalt Technology Transfer with Onsite Blended Crumbed Rubber Binder</p> <p>Rod McArthur Topcoat Asphalt</p>	
4.06pm – 4.30pm	<p>Q&A Session</p>	<p>Opportunities to Optimise Heavy Vehicle Access on the Local Road Network</p> <p>Todd Wellard National Heavy Vehicle Regulator (QLD)</p>	<p>Road Maintenance Contracts 2020 – It's All in the Prep</p> <p>Angela Farnell Baw Baw Shire (VIC)</p>	
7.00pm – 10.00pm	<p>Monday Evening Function – Adelaide Oval sponsored by COMPLETE URBAN</p>			

7.30am – 8.15am

Conference Registration
Breakfast at Trade Display in the Exhibition Hall

Young IPWEA Address – Ben Clark, Chair YIPWEA.

Session 5 (Plenary)
 8.15am – 10.00am

IPWEA Head of Education Address – Jonathan Jones. Topic: “*Building Asset Management Capability – the Path to Better AM Practice*”

Keynote Address – Felicity Furey, Award-winning Business Leader. Engineer. Entrepreneur. Aspiring Aviator. Topic: “*Inspiring the Engineers of the Future*”

10.00am – 10.30am

Morning Tea sponsor by 

Session 6
 10.30am – 12.00pm


6A: Asset Management – Lessons Learnt


6B: Road Pavement Enhancements


6C: ARRB Workshop


6D: Artificial Intelligence

Location	Hall L	City Room 1	City Room 2	City Room 3
Chair	Ben Clark	Rod Ellis	Rita Excell	Phil Burton


10.30am – 10.52am	Australia’s Local Government Infrastructure – Where Are We At? Steve Verity IPWEA (VIC)	A Practical Approach to Rehabilitate Thin Existing Pavements using Basegrade Stabilisation Scott Young Stabilised Pavements of Australia (QLD)	 Road Asset Performance and Maximising the Life of Assets Nigel Powers	Scenic Rim Council's journey using Artificial Intelligence (AI) and Machine Learning (ML) to Automatically Capture and Manage Road and Footpath Defects Scenic Rim Council evaluated Retina Visions’ and TechnologyOne’s solution to capture and update defects in the road corridor and for footpaths. By attaching a simple Google Pixel camera to waste trucks and e-bikes, Scenic Rim Council was able to start capturing defects in minutes. This presentation discusses the Scenic Rim experience and the business benefits discovered.
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10.52am – 11.12am	“Nice-to-Have” or “Silver Bullet”? – Challenge Facing Local Government in BIM Adoption John Jiang Hastings District Council (NZ)	Evaluation of Geosynthetic Stabilised Pavements over Reactive Clay Subgrades in Metropolitan Adelaide South Australia Rod Fyfe Geofabrics (SA)	 Data Collection – Ushering New Technology to Manage your Pavements Richard Wix	Alvin Valle Scenic Rim Council (QLD)
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11.12am – 11.34am	Small Model Canadian Communities & Financial Needs Assessment Jamie Davignon Stantec (CANADA)	Enhancing Pavement Durability Using a Sustainable Asphalt Reinforcement Geogrid: Practical Experience in Roads and Airfields Zehra Kaya Huesker Australia (QLD) Peter Levett City of Salisbury (SA)	 Building Assurance Models Hear how assurance models help to ensure that both the contractor and client can be assured of timely reporting and performance. Includes a Case Study of the ARRB Assurance Model is supporting the management of Tracks and Fire Trails. Johan Cronjé	Live Capture of Footpath Defects at the Conference, with Real Time Evaluation of the Results TechnologyOne and Retina Visions will have its “Defect Capturer e-bike” at the conference. This workshop builds on the Scenic Rim presentation showcasing the technology they evaluated to capture defects automatically. We will take the attendees out in the field with the TechnologyOne Field App to view the results as they are happening. This is a real-life, real-time assessment of this technology on the Adelaide streets around the Conference Centre.
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11.34am – 12.00pm	First Nations Custodianship in Asset Management Kieran Shirey LOGiT Australia (QLD)	Subgrade Lime Stabilisation – An Investigation into Design, Field Performance & Quality Control Ali Jamshidi Pavement Management Services (QLD)	 Don’t Set and Forget your Asset Management Models This presentation will demonstrate how a peer review of asset management triggers and intervention levels, based on national best practice, can lead to a reduction in your maintenance backlog. Dr Richard Yeo	The “field visit” will be followed by discussion about other AI/ML applications to benefit Local Government. Alvin Valle Scenic Rim Council (QLD) Michael Cybulski Retina Visions (QLD) Gordon Sterling TechnologyOne (QLD)
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12.00pm – 1.00pm

Lunch sponsor by 

Session 7 1.00pm – 2.30pm	7A: Stormwater Management	7B: Good Stuff II	7C: ARRB Workshop	7D: Asset Tracking & Monitoring Forum
Location	Hall L	City Room 1	City Room 2	City Room 3
Chair	Megan Woodward	Jarred Collins	Rita Excell	Jonathan Jones
1.00pm – 1.22pm	Delegates please note there are no presentations in Hall L during session 7A	Port Pirie Council and PPS Stormwater Condition Assessment Project Richard Powell Plumbing & Pipeline Solutions (SA)	 Sustainability and Materials Performance Dr Clarissa Han Brooke Hall Melissa Lyons	Asset Tracking & Monitoring Forum Open to all conference delegates
1.22pm – 1.44pm	Delegates please note there are no presentations in Hall L during session 7A	Exploring the Effect of Urban Development on Stormwater Runoff in Growth Areas of Melbourne Purananad (San) Fokeerah Melbourne Polytechnic (VIC)	This session will share knowledge on new initiatives involving safe and beneficial use of sustainable materials. It will involve a forum session with expert speakers discussing: <ul style="list-style-type: none">• Sustainability assessment of innovative pavement technologies and recycled materials.• Recycled materials evaluation framework for local government.• National best practice expert advice on the optimised use of sustainable materials.• Performance based specifications covering emerging use of recycled materials including recycled plastic noise wall specs and recycled processed composites	A half day forum as part of the IPWEA Emerging Technology Stream  See breakout program available as a separate PDF from conference website
1.44pm – 2.06pm	Delegates please note there are no presentations in Hall L during session 7A	Emergency Markers – Saving Time, Saving Lives Lyn Terrett Rapidmap Global (VIC)		Proudly sponsored by 
2.06pm – 2.30pm	Delegates please note there are no presentations in Hall L during session 7A	Smart Infrastructure Delivered Trevor Potts ENE.HUB (NSW)		

2.30pm – 3.00pm					Afternoon Tea				
Session 8 3.00pm – 4.30pm		8A: Project Management & Delivery		8B: Asset Management – Tools		8C: ARRB Workshop		8D: Asset Tracking & Monitoring Forum	
Location		Hall L		City Room 1		City Room 2		City Room 3	
Chair		Megan Woodward		Brendon Lyons		Rita Excell		Jonathan Jones	
3.00pm – 3.22pm		Surely It Can Only Get Simpler? Can Australian Projects Be Harmonized? Matthew Bradbury McCullough Robertson (QLD)		Using GIS to Deliver a Needs-Based Maintenance Grading Program Kathryn Johnson City of Port Pirie (SA)		 Road Safety Tools for Local Government David McTiernan Malcolm Mak Emily McLean		Asset Tracking & Monitoring Forum Open to all conference delegates	
3.22pm – 3.44pm		Resident-Centric Worksite Experience – Development Case from Helsinki, Finland Ville Alatyppo City of Helsinki (FINLAND)		Using Artificial Intelligence to Enhance Condition Assessment of Drainage and Wastewater Pipes Michelle Aguilar VAPAR (VIC)		Learn about the existing and emerging tools available to rapidly assess the risk on your road network. Understand what acronyms such as NetRisk 2.0, ANRAM, iRAP, AusRAP and SSAF mean and how you can use them to deliver as safer outcome for your communities. New visualisation tools, which enable big data analytics incorporating asset management analysis to inform road safety decision-making, assistance for identifying high-risk issues and how these can be leveraged for State and Federal Funding programs.		A half day forum as part of the IPWEA Emerging Technology Stream  See breakout program available as a separate PDF from conference website Proudly sponsored by 	
3.44pm – 4.06pm		Multi-Objective Operational Forward Works Programme Optimization Using a Meta-Heuristic Algorithm Fritz Jooste Lorix Ltd (NZ)		Artificial Intelligence and Road Asset Management: the Good, Bad and the Ugly John Yeaman Pavement Management Services (QLD)					
4.06pm – 4.30pm		Galloway Culvert Remediation – Emergency Response Jim Raz Interflow (NSW) Morgan Ellingham City of Onkaparinga (SA)		360° Mobile Mapping – Map Once, Use Multiple Times Peter Terrett Rapidmap Global (QLD)					
6.00pm		Delegates free night to explore the dining delights of Adelaide Young IPWEA Pub Night Departs from Convention Centre (North Terrace, by the Intercontinental). All expenses at delegates' own cost.							

7.30am – 8.15am

Breakfast at Trade Display in the Exhibition Hall

Session 9 (Plenary)
8.15am – 10.00am

Keynote Address – Romilly Madew, CEO Infrastructure Australia. Topic: “Sustainable Asset Management”

Thought Leaders – Ashay Prabhu, Co-Founder Assetic & **John Comrie**, Director at JAC Comrie will address the Keynote topic from their perspectives

Panel Session – Romilly Madew, Ashay Prabhu and John Comrie will be joined by Terri Velasquez, President Government Finance Officers Association (USA) for a Q&A session moderated by IPWEA CEO David Jenkins

Street Lighting & Smart Controls Forum

Open to all delegates
Commences at 9.00am in City Room 3 and live streamed

10.00am – 10.30am

Morning Tea

Session 10
10.30am – 12.00pm

10A: Good Stuff III

10B: Project Management & Delivery

10C: Traffic Management & Road Safety

10D: Street Lighting & Smart Controls Forum

Location	Hall L	City Room 1	City Room 2	City Room 3
Chair	Jarred Collins	Madeleine Bekavac	Heather Barclay	Graham Mawer

10.30am – 11.00am

How Emerging Technologies Can Compliment Public Assets
Ian Hutton
COMPLETE Urban (NSW)

Asset Management Transformation: Strategic Project Management to Ensure Continuity and Success
Jean-Pierre Koekemoer
City of Port Lincoln (SA)

The Effects of Road Geometry and Posted Speed Limits on Driver Speed Selection
Jason Deller
Green Strategy Pty Ltd (VIC)

Street Lighting & Smart Controls Forum

Open to all delegates
Commences at 9.00am in City Room 3 and live streamed

11.00am – 11.30am

Asset Management: An overview and value of the ISO 55000 Series Standards
Ross Goyne
IPWEA (VIC)

Capital Works Transformation
James Mitchell
City of Holdfast Bay (SA)

Fairbanks Drive – Community Centric Road Upgrade
David Boothway
City of Salisbury (SA)

A full day forum as part of the IPWEA Emerging Technology Stream



See breakout program available as a separate PDF from [conference website](#)

11.30am – 12.00pm

Delivery of Envision Innovative Solutions to Infrastructure Projects in Virtual Reality
Bill Zhang
BE Engineering Solutions (SA)

Taking Back Condition Assessments
Jeremy Rudd
Regional Project Consulting (VIC)






TGSI – Means to Assist
Paul Moller
ALLTAC (VIC)

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12.00pm – 1.00pm

Lunch

Session 11 1.00pm – 2.30pm	11A: Good Stuff IV	11B: Project Management & Delivery	11C: Traffic Management & Road Safety	11D: SLSC
Location	Hall L	City Room 1	City Room 2	City Room 3
Chair	Jarred Collins	Kathryn Johnson	Rita Excell	Graham Mawer
1.00pm – 1.22pm	Sustainability; Life, Liberty and the Pursuit of Negative Entropy, Part 3 John Milne Clark County Public Works (USA)	Gladstone Regional Council Gets Mobile with Online Works Program Darren Shepherd Shepherd (QLD)	Improving Road Safety with All Weather Pavement Markings Kosta Karagiannopoulos 3M Australia (NSW)	Street Lighting & Smart Controls Forum Continues in City Room 3 until 4.30pm and live streamed A full day forum as part of the IPWEA Emerging Technology Stream See breakout program available as a separate PDF from conference website
1.22pm – 1.44pm	Why Tomorrow's City Must Be Green and Inspired by Nature Germain Briand Urban Canopee Australia (VIC)	Leading the Way in Damage Prevention Graeme McKenna Before You Dig Australia (VIC)	Conversion of Local Government Owned Assets – MV to LED Street Lighting Anna Scantlebury City of Canning (WA)	
1.44pm – 2.06pm	Mobility in the Evolving City Nathan Parish COMPLETE Urban (NSW)	Using AI for Sealed Road Maintenance Management – A Roads Alliance Initiative Stephen Hegedus Shepherd (QLD)	School Transport Framework – City of Salisbury David Boothway City of Salisbury (SA)	
2.06pm – 2.30pm	Registration of Engineers: Coming Soon to a State Near You! David Hallett IPWEA (VIC)	General Conditions of Contract for Construction – National Capital Works 4 Richard Edwards RJE Professional Services (SA)	Defect Identification and Maintenance Management of Bridges and Concrete Structures using Artificial Intelligence Krishna Shrestha Horsham Rural City Council (VIC)	
2.30pm – 3.00pm	Afternoon Tea – Trade Exhibition Closes			
Session 12 (Plenary) 3.00pm – 4.30pm	Keynote Address – Dr Bronwyn Evans , CEO Engineers Australia. Topic: “Skills Shortage in Engineering and the Future Workforce” Thought Leader Address – Michelle Holland , SynergyIQ. Topic: “Engineered’ Leadership” Closing Address and Invitation to Melbourne 2024			 Proudly sponsored by  
4.30pm	Conference Closes			
6.30pm – 11.00pm	Gala Awards Dinner sponsored by  Creating value together IPWEA Australasia Excellence Awards sponsored by 			
Thursday 5 May 2022				
8.15am – 3.45pm	Technical Tours			