

SPEAKING PROGRAM

11th Australian Small Bridges Conference

Gold Coast Convention and Exhibition Centre, Queensland, Australia, Tuesday 16th – Wednesday 17th May 2023

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SPEAKING PROGRAM – 11th AUSTRALIAN SMALL BRIDGES CONFERENCE 2023


DAY ONE – TUES 16th MAY -Registration & Exhibition Opens
Arrival Tea/ Coffee from 8.00 AM



TIME	STREAM ONE	STREAM TWO	STREAM THREE
9.00	CONFERENCE OPENING		
9.15	<p>RE-USING WHAT WE HAVE - Tim Heldt</p> <ol style="list-style-type: none"> Breathing New life into Old Bridges: Maximising Their Potential for a Circular Future. Ken O’Neill, Aurecon. Inspection Methodologies to Aid the Preservation of Historic and Contemporary Victorian Bridges. Dan McLeish & Anthony Cafari, Graduate Engineer, Sterling Infrastructure. Saving the Historical South Arm Bridge Landmark. Davide Maggiolo, Timber Restoration Services. 	<p>DESIGN & MODELLING - Reza Salamy</p> <ol style="list-style-type: none"> Design of Integral Land Green Bridges. Binh Pham, SMEC Comparison Between Modelling for Bridge Design & Modelling for Crash/Impact. Dane Hansen, IF3 Australia The Use of 3D Reality Models, Inspection Software & AI for the Management of Bridge Infrastructure. Dr. Liam Holloway, Duratec Australia 	<p style="text-align: center;">PLATINUM SPONSOR</p> <div style="text-align: center;">  <p>DOWN UNDER BRIDGE UNITS</p> </div>
10.35	 <p style="text-align: center;">MORNING TEA & EXHIBITION</p>		
11.10	<p>DESIGN - Ross Pritchard</p> <ol style="list-style-type: none"> Canada’s Longest 3-Lane Design Timber Bridge – Nappan Marsh Bridge. Dr Dan Tingley, Wood Research & Development. CANADA. Design of the Replacement Bridge Over Clyde River at Nelligen. Long Bai, Stantec Australia. On the Analysis & Design of a Pony Truss Bridge. Jeandré le Roux, Tiaki Engineering Consultants. NEW ZEALAND Development of an Innovative Ultra-High Performance Prestressed Concrete U-Girder for Long Span Bridges-Case Study. Arash Behnia, Robert Bird Group and Rohan Agarwal, Technical Team Lead, MIDAS IT, INDIA 	<p>REHABILITATION & STRENGTHENING - Jeevan Senthilvasan</p> <ol style="list-style-type: none"> Bridge Rehabilitation of Donnybrook Rd Bridge Over Barbers Creek, Victoria. Dr Yanan Yang, Department of Transport Vic. Marco Vargas, WGA Doolan Deck Bridge Strengthening & Longevity Rehabilitation Works - How to Increase Lifespan at a Fraction the Cost of New. Patrick Bigg, Timber Restoration Services Bridge Strengthening Design & Construction – Dynon Road Bridge Over Moonee Ponds Creek, West Melbourne. Harry Ostapiv, Depart of Transport Vic Toughened 2C-Epoxy Adhesives for the Structural Strengthening of Steel Bridges & Structures. Antonino Montalbano, Structural Bonding & Strengthening, Sika. SWITZERLAND. 	<p>PILES & SOIL NAILS – Scott Matthews</p> <ol style="list-style-type: none"> Micropiles Design & Installation Options for the Temporary Gresham St Bridge – Case Study. Iain Robertson, RIX Ground Engineering Do Micropiles Have a Role to Play in Bridge Construction. Christopher Dowding, Osborn Consulting State of Practice - Advancements in Bored Pile Assessment & Quality Assurance. Haden Van Den Elsen, Piletest. Advancements in Soil Nails & Ground Anchors in Australia & New Zealand – Glass-Fibre Reinforced Polymer Tendons. Greg Sieders, Bluey Technologies

12.55			
1.55	<p>RENOVATION, REPAIRS & MAINTENANCE - Scott Matthews</p> <ol style="list-style-type: none"> The Howard Street Bridge Renovation – A Case Study in the Recycling of a Small Bridge. Nicholas Critchley and Dominic Branca, Marine & Civil Maintenance Concrete Deck Repair & Replacement of the Loganlea Road Overpass Bridge, including Sustainability Initiatives. Evan Lo, Department of Transport and Main Roads, Qld The Replacement of the Pot Bearings of a Western Distributor Viaduct in Sydney using Flat Jacks. Kenny Luu, SMEC New FRP Solutions for Structural Repair of Bridges & Culverts. Mo Ehsani, QuakeWrap, USA 	<p>NEW BRIDGES - Aida Bartels</p> <ol style="list-style-type: none"> Country Bridge Solutions. Nicholas McMullen and NSW. Brett Butcher, Transport for NSW. Bridge Renewals – Beyond Timber Bridge Replacement. Adam O’Rourke and Edward Eskew, Ductile Consulting Engineers Design Principles of Fauna Rope Structures. Alberto Anca Pereira, AECOM Maximising Underbridge Clearance with a Low-Profile Bridge Deck Girder System. Mike Wright, InQuik International 	<p>CULVERTS, SERVICES & RAILWAYS -Jeevan Senthilvasan</p> <ol style="list-style-type: none"> Rehabilitation of Redbank Creek Culvert following Mining Subsidence Impact. Peter Boesch, Stantec Australia. Culvert Renewals in Rail- Approaches to Design & Construction to Succeed Within Constrained Access Windows. Stephen Farrington & David Miller, Sterling Infrastructure Neerim Road Level Crossing Service Beam Installation Beneath Rail to Facilitate Utility Cutovers. Daniel Fedele, Beca. Remediation of Culverts Beneath Roadways. James O’Grady, Mainmark Ground Engineering.
3.40			
4.10	<p>PROJECTS - Aida Bartels</p> <ol style="list-style-type: none"> Sundale Bridge: Conversion of an Existing 4-Lane Road Bridge with Narrow Footpath to 5-Lanes. Ross Pritchard, SMEC. Frankston-Dandenong Road Bridge Upgrade. David Huggett, SMEC Australia Design & Delivery of the Latham’s Road Upgrade Project in Melbourne. Tanmay Vegad, Hatch Dibble Avenue Waterhole Slope Stabilisation – Former Brick Pit Rehabilitation in Dense Urban Environment. Paul Lunniss and Alistair Hyde Page, Inner West Council 	<p>BRIDGE INSPECTION & ASSET MANAGEMENT – Scott Matthews</p> <ol style="list-style-type: none"> Level 2 Bridge Inspections: Next steps for Local Government. Tim Heldt, Osborn Consulting and Josh Seskis, Independent Consultant. Inspection, Condition Assessment, Modelling, Load Carrying Capacity, & Prediction of the Residual Service Life of the Bridges. Dr Farhad Nabavi, Technocrete Consulting Engineers. Advances, Insights & Innovation in Structural Health Monitoring. John Vazey, EngAnalysis. Enhanced Sustainability Based on Reliability Approach to Bridge Management. Sachidanand Joshi, UBMS Research Group. INDIA. 	<p>RAILWAY BRIDGE REFURBISHMENT -David Miller</p> <ol style="list-style-type: none"> + Refurbishment of Steel Railway Bridges in South East Queensland. Bradley Sutton, Queensland Rail. Aaron Lau, Engineering, Queensland Rail. Superstructure Replacement Design of Dated Railway Bridges: Case Study of a Composite Deck. Mehdi Lima, Sterling Infrastructure and Ahmed Al-Aghbari, Structures, Metro Trains Melbourne. + Challenges in Rehabilitating Old Bridges Over Rail Corridors. Reza Salamy, pitt&sherry
5.55			
7.15	<p align="center">CONFERENCE DINNER (For those with tickets) at GCCEC</p>		

DAY TWO - WEDS 17 MAY Registration & Exhibition Opens at 8.00 AM

Arrival Tea/Coffee from 8.00 AM

	STREAM ONE	STREAM TWO	STREAM THREE
8.30	OPENING		
8.40	<p>COMPOSITE PEDESTRIAN/ CYCLE BRIDGES -Scott Matthews</p> <ol style="list-style-type: none"> A Study on Fibre Reinforced Plastic (FRP) as an alternative material for Pedestrian Bridges. Elena Lynch, SMEC. The Design of Light-Weight FRP Clip-on Cycleways for New Zealand & Australia. Rohan McElroy, icubed consulting. The Design of Mersey River FRP Truss Bridge. Dr Ali Mohammed, Wagners. The First Concrete Filled Steel Tubular Bridge in Australia. Krishna Shrestha, Horsham City Council. 	<p>TIMBER -Dan Tingley</p> <ol style="list-style-type: none"> Decision Support System for Remedial Modelling of Timber Bridges. Dr Maria Rashidi, Western Sydney University Review of Log Girder Bridge Connections – Sugarloaf Road Bridge. Stephen Richards, Wood Research and Development River Road Bridge – Design & Construction – Lightweight Clear Span Replacement Solutions that go the distance. Patrick Bigg, Timber Restoration Services Full Scale Testing to Determine Load Sharing Factors for Glued-Laminated Timber Bridges. Clay Hoger, Wood Research and Development 	<p>RAILWAY BRIDGES AND CULVERTS -Raphael Woon</p> <ol style="list-style-type: none"> + Detailed Visual Inspections & Load Rating of Reinforced Concrete Pipe Culverts for a Rail Network in Western Australia. Harini Mabotuwana & Harshil Patel, Aurecon Rail Bridges Renewal Design. Jasmin Salandanan, Hatch + Mastering Railway Interface Management: An In-Depth Guide for Australian Asset Owners. David Bailey, Sterling Infrastructure
10.25			
11.00	<p>PEDESTRIAN/CYCLE BRIDGES - Ken O'Neill</p> <ol style="list-style-type: none"> The Kids' Bridge. Nicholas Keage and Michael Kakulas, Associate Director AECOM. Indooroopilly Riverwalk, Design for performance during a Flood Event. Laura Merry, Arup. Voyager Point Footbridge – Structural Assessment & Strengthening of a 101 m Long Steel Suspended Arch Footbridge. Tim Shaw, GHD. Relics from a Bygone Era Rise Again – Tumbarumba - Rosewood Rail Trail Davide Maggiolo, Timber Restoration Services. 	<p>CONSTRUCTION -TRAFFIC MANAGEMENT – Ross Pritchard</p> <ol style="list-style-type: none"> Changes in Temporary Traffic Management for Road Asset Inspections in Queensland. Rebecca Blair, Osborn Consulting. Removal of the Beatrice Bush Bridge for the Rozelle Interchange Project. Matt Hennessy, EIC Activities. Constructing Bridges over Public Utilities in Suburban Sydney – the Processes & Challenges. Eric Hooimeyer, Teleo Design. Frenchman's Creek Bridge Replacement in a Short Closure of the Road. Ali Sheeran, SMEC. 	<p>LOCAL GOVERNMENT BRIDGE REHABILITATION - Reza Salamy</p> <ol style="list-style-type: none"> An Approach for Carrying Out Load Rating Assessment of Existing Concrete Culverts & Timber Bridge Structures. Awais Jamil Chaudry, Stantec Australia. + Rehabilitation of Rawdon Island Bridge. Stephen Wood, Port Macquarie Hastings Council + Condition & Load Rating Assessment of Cuttagee Bridge Located in Bega Valley Shire of NSW. Muhammad Abdullah Jamal, Stantec Australia

12.45	 LUNCH & EXHIBITION		
1.45	BRIDGE DESIGN -CODES – Scott Matthews <ol style="list-style-type: none"> 1. *In-Situ Timber Bridge Moisture Content Test Results and Subsequent Bridge Code Considerations. Dr Dan Tingley, Wood Research & Development. CANADA. 2. *Greenfield Timber Design Pertaining to Moisture Content: a Global Code Comparison. Dr Dan Tingley, Wood Research & Development. CANADA 3. Suggested Changes to AS 5100 Bridge Design for Wide Pedestrian / Cycle / Active Transport Corridor Bridges. Ross Pritchard, SMEC, 4. The Evolution of Australian Bridge Design Code for Timber Bridges in Australia. Clay Hoger, Wood Research & Development. 	CONCRETE BRIDGE CORROSION REPAIR & PREVENTION – Tim Heldt <ol style="list-style-type: none"> 1. Realkalisation Technology for the Restoration of Multiple Bridges in Tasmania. Atef Cheaitani, Remedial Technology, Sydney, NSW 2. Sustainable Repair & Protection of Severely Corroded Concrete Bridge Substructures. Andrew Dickinson, Vector Corrosion Technologies. 3. Case Study: 17 years of Corrosion Prevention for a Reinforced Concrete Bridge. Atef Cheaitani, Remedial Technology. 	
3.15	CONFERENCE CLOSE		

Note: Presentations have been allocated 20 minutes, apart from * which are 15 min, and + which are 30 min. Delegates can quietly change streams mid-Session. Speaking Sessions have a shared Q&A Panel Session of all Presenters from that Session after Speakers have presented. Each Session will also have a Session Chair.

The 11th Australian Small Bridges Conference is managed by Leading Infrastructure.

