

# 10th Australian Small Bridges Conference 2021

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**DAY ONE- Monday 15<sup>th</sup> Feb 2021**

8.00 Registration - Arrival Tea & Coffee - Exhibition viewing

**Stream 1: Theatre 1**

**Stream 2: Theatre 2**

9.00 CONFERENCE OPENING Scott Matthews

**9.05 BRIDGE ASSESSMENT AND MANAGEMENT**

**PRIORITISATION STRATEGY FOR TIMBER BRIDGE REPLACEMENTS**

Susie Seeto, *Structural Engineer* and Sally Farquhar, *Senior Structural Engineer*, AECOM

**A RISK-BASED APPROACH TO MANAGEMENT OF REMOTE VEHICLE AND PEDESTRIAN STRUCTURES IN TASMANIA**

Tim Chappell, *Senior Engineer*, Tasmania Parks and Wildlife Service

**FROM DATA TO INFORMATION – BRIDGING THE GAP ON HOW TO INCREASE VALUE FROM INSPECTION PROGRAMS**

Gavin Chadborn, *Manager- Asset Strategy & Planning*, pitt&sherry

**Q&A PANEL SESSION-**

10.35 Morning Tea

**11.15 PEDESTRIAN BRIDGES FOR RAIL PROPECTS**

**ROOTY HILL STATION EASY ACCESS UPGRADE: PEDESTRIAN BRIDGE DESIGN AND CONSTRUCTION WITH MULTIPLE SITE CONSTRAINTS**

Nebojsa Ravic, *Principal Bridge Engineer* and Angus Murray, *Bridge Engineer*, Cardno

**DESIGN AND CONSTRUCTION OF TEMPORARY PEDESTRIAN BRIDGE AT MARTIN PLACE METRO STATION**

Rowan Hsu, *Principal Structural Engineer*, BG&E and Natalie Cook, *Structural Engineer* Arcadis

**PEDESTRIAN BRIDGE CONSTRUCTION STAGING – COCK LANE FOOTBRIDGE, WERRINGTON, UNITED KINGDOM**

Rupert Noronha, *Project Engineer*, Brisbane City Council

**Q&A PANEL SESSION**

**11.15 BRIDGE MAINTENANCE AND INSPECTION**

**WORKSHOP: BRIDGE ACCESS FOR MAINTENANCE AND INSPECTION**

Mark Elliott, *Owner and CEO*, Down Under Bridge Units

**PLANNING FOR REPAINTING AND STRUCTURAL REPAIRS OF RED BRIDGE, BEENLEIGH**

Antony Andradi, *Senior Engineer Pavement and Structures*, Logan City Council

**REVIVING AN ICONIC STRUCTURE – REPAINTING AND STRUCTURAL REPAIRS TO THE LOGAN RIVER RED BRIDGE**

Matt Duncanson, *Senior Engineer – Materials Technology*, SMEC Australia

**Q&A PANEL SESSION**

12.45 Lunch

**1.45 RAILWAY BRIDGES**

**LONGITUDINAL BRAKING/TRACTION AND THERMAL FORCE ASSESSMENT FOR RAILWAY BRIDGE TO AS5100:2017**

David Han, *Technical Director*, Rockfield Technologies Australia

**DESIGN AND CONSTRUCTION OF TOORAK ROAD MULTI-SPAN RAIL BRIDGE**

Daniel Pang, *Principal Structural Engineer* and John Noonan, *Principal Structural Engineer*, Jacobs

**INTEGRAL RAIL BRIDGE CONSTRUCTION – STAMFORD RAIL UNDERBRIDGE - WERRINGTON, UNITED KINGDOM**

Rupert Noronha, *Project Engineer*, Brisbane City Council

**1.45 FLOODING, SCOUR & DESIGN -**

**HAUGHTON RIVER FLOODPLAIN UPGRADE PROJECT**

Aida Bartels, *Structures Lead AHJV - Associate Principal*, Arup and Tina O'Connell *Hydraulics Lead AHJV - Principal Engineer*, HDR

**DEEP SCOUR ANALYSIS AND FLOOD LOADING ON SUBMERGED BRIDGES**

Elijah Holland, *Structural Engineer*, Aurecon

**PILE REMEDIATION AND SCOUR PROTECTION**

Ray Crampton, *Founder and Director*, Commercial Marine Group Subsea Solutions

**Q&A PANEL SESSION**

<p><b>Q&amp;A PANEL SESSION</b></p>	
<p><b>3.15 Afternoon Tea</b></p>	
<p><b>3.55 CULVERTS</b></p> <p><b>SUNBURY CULVERT MODIFICATION TEMPORARY PROPPING AND STAGING</b>  <i>Joe Abraham, Temporary Works Coordinator, CPB Contractors</i></p> <p><b>COLLABORATIVE DEVELOPMENT OF 300LA TWIN CELL UNICULVERTS FOR AURIZON REPLACEMENT RAIL CULVERT AND BRIDGE STRUCTURES</b>  <i>Stephen Farrington, Sales Manager Central Queensland and Ken Weier, Civil Engineer Humes</i></p> <p><b>MEASUREMENTS BASED ASSESSMENT OF A DAMAGED CULVERT</b>  <i>John Vazey, Engineering Manager, EngAnalysis</i></p> <p><b>Q&amp;A PANEL SESSION</b></p>	<p><b>3.55 BRIDGE DESIGN</b></p> <p><b>NEW “LOW FORCES” BRIDGE BARRIER DESIGN AN EXAMPLE OF FEA SIMULATION FOR EXCELLENT DESIGN</b>  <i>Dane Hansen, Senior Engineer, LB Australia</i></p> <p><b>A SERVICEABILITY ANALYSIS OF PEDESTRIAN INDUCED EXCITATION FOM LIGHT-WEIGHT FRP FOOTBRIDGES</b>  <i>Rohan McElroy, Principal Structural Engineer, icubed consulting</i></p> <p><b>Q&amp;A PANEL SESSION</b></p>
<p><b>5.25 Networking Drinks &amp; Canapes sponsored by LB AUSTRALIA (This is included for all Two-Day and Day One Ticketholders)</b></p> <p><b>6.45 Optional Conference Dinner (Must have paid for a dinner ticket)</b></p>	

Note:

1. All Sessions will conclude with a Q&A Panel Session from all the speakers in that Session.
2. To read the abstracts, biographies and to see all co-authors go to [www.smallbridges.com.au](http://www.smallbridges.com.au)
3. Updated on 1<sup>th</sup> Feb 2021



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**DAY TWO -Tuesday 16th Feb 2021**

8.00 Registration - Arrival Tea & Coffee - Exhibition viewing

**Stream 1: Theatre 1**

**Stream 2: Theatre 2**

**8.45 CONFERENCE OPENING – DAY TWO**

**8.45 CONFERENCE OPENING – DAY TWO**

**8.50 RETAINING WALLS, ABUTMENTS AND PILING**

**EMBANKMENT RETAINING WALLS CONSTRUCTED IN A NARROW RAIL CORRIDOR**

**Kim Guttridge**, *Technical Director, Mott MacDonald*, and **Tim Pistono**, *Senior Structural Engineer, WSP*

**RETAINING WALL SYSTEMS INTERFACING WITH BRIDGE ABUTMENT WALLS**

**Ian Ward**, *Associate Director and Roads & Rail Leader (Vic, TSA Management)*

**CONSTRUCTION OF A ROAD BRIDGE OVER WATER – VINES CREEK, MACKAY, QUEENSLAND**

**Rupert Noronha**, *Project Engineer, Brisbane City Council*

**Q&A PANEL SESSION**

**8.50 NEW BRIDGE PROJECTS**

**MUIR ROAD AND BEDWIN ROAD CABLE BRIDGES**

**Chris Duffy**, *Director, Certus Projects*

**BR65 VELOWAY BRIDGE OVER LEXINGTON ROAD - ACCELERATED DESIGN IN THE TIME OF COVID-19**

**David Lingard**, *Structural Engineer, Jacobs*

**ACCELERATED PROGRAM TO REPLACE 3 LOAD LIMITED TIMBER BRIDGES FOR THE UPPER LACHLAN SHIRE COUNCIL TO SM1600**

**Logan Mullaney**, *Managing Director, InQuik Bridging Systems*

**Q&A PANEL SESSION**

**10.20 Morning Tea**

**10.50 RAILWAY BRIDGES**

**PI-GIRDER – A FULL SPAN PRECAST VIADUCT FOR THE MANILA L1 CAVITE EXTENSION PROJECT (L1CEP) IN THE PHILIPPINES**

**Jonathan Herguais**, *Director Structures & Civil Infrastructure ANZ, SYSTRA* **Scott Lister**, *Melbourne*

**STEEL TRUSS LOAD ASSESSMENT FOR AGING BRIDGES USING FEA AND AS5100:2017**

**Daniel Stephenson**, *Principal Structural Engineer, Rockfield Technologies Australia*

**STRUCTURAL ANALYSIS OF BURIED CORRUGATED METAL CULVERTS**

**Satyajit Datar**, *Technical Director, Infrastructure, Aurecon*

**Q&A PANEL SESSION**

**10.50 RECOVERY, RESTORATION AND REPAIR**

**RESTORING CORRODED AND DEFICIENT PIERS – DURABILITY AND STRUCTURAL STRENGTHENING SOLUTION OF DUNBOGAN BRIDGE PIERS**

**Tim Shaw**, *Structural Engineer – Bridges and* **Daniel Anstice**, *Technical Director – Materials Technology GHD*

**BUSHFIRE RECOVERY - REBUILDING DESTROYED SMALL SPAN TIMBER BRIDGES ACROSS SOUTHERN NSW**

**Logan Mullaney**, *Managing Director, InQuik Bridging Systems*

**REPAIR OPTIONS FOR EXTENDING THE LIFE OF BRIDGE ASSETS NEW or OLD: CASE STUDIES OF COMMON ISSUES**

**Grant Dowling**, *Target Market Manager – Refurbishment, Sika*

**Q&A PANEL SESSION**

12.20 Lunch

**1.20 CORROSION AND STRUCTURES**

**THE LATEST DEVELOPMENTS IN CONCRETE CORROSION PROTECTION FOR INFRASTRUCTURE ASSETS**

*Atef Cheaitani, Managing Director, Remedial Technology*

**ADVANCES, BENEFITS AND CHALLENGES IN APPLIED STRUCTURAL HEALTH MONITORING**

*John Vazey, Engineering Manager, EngAnalysis*

**USING CHLORIDE DIFFUSION MODELLING TO PREDICT THE REDUCTION IN GLOBAL WARMING POTENTIAL FOR CONCRETE STRUCTURES REINFORCED WITH HOT DIP GALVANIZED STEEL**

*David Harrison, Market and Specification Engineer, Galvanizers Association of Australia*

**USING FRP PULTRUDED PROFILES IN THE DESIGN OF THE SMALL BRIDGE**

*Mahdi Saadati, Senior Structural Engineer, High Mat*

**Q&A PANEL SESSION**

3.00 Conference Close

**Conference Chair**

Scott Matthews, Managing Director, Leading Infrastructure

**Conference Manager**

[support@leadinginfrastructure.com](mailto:support@leadinginfrastructure.com)

