

Australasian Structural Engineering Conference
WEDNESDAY 11 November 2020 - FRIDAY 13 November 2020
 Online

Wednesday, 11 November 2020

	Room A	Room B	Room C
09:00	Plenary Day 1		
09:00	Welcome		
09:05	Bayonne Bridge Navigational Clearance Program - LIVE ONLY Roger Haight P.e., Env Sp		
10:05	Break & Virtual Exhibition		
10:20	Buildings: Miscellaneous 1 <i>Chairperson: Peter Statton, Harrison Chua</i>	Transportation Infrastructure <i>Chairperson: Geoff Taplin, Nicolette Cumbo</i>	Buildings: Research <i>Chairperson: Amin Heidarpour, Spiros Dallas</i>
10:20	57: Design approach of sports lighting masts Ramesh Watson	84: Structural engineering challenges for designing major underground road or rail transport infrastructure Stewart Garden Fieaust Cpeng	49: Large-Scale Cyclic Testing of Two 3D Assemblies of Drywall Systems Under Bidirectional Lateral Loading Protocol Hamidreza A Yazdi
10:40	62: Successful Implementation of a Tuned Slushing Damper in Melbourne: From Concept to Commissioning Michael Pieterse Mieaust Cpeng, Ron Aquino	88: Methods and approaches for managing the risk of impacts on structures from ground movements Chris Lyons Mieaust	28: New in-plane shear modelling and capacities for non-ductile, limited/moderately ductile building designs for Permanent Formwork Walls to AS3600-2018 Concrete Structures Stephen Nash Mieaust
11:00	Observation of Armistice Day	Observation of Armistice Day	Observation of Armistice Day
11:05	47: The Digital Wind Method: Aligning industry innovations for the design of tall and slender buildings Joshua Haigh, Andy Mak	70: Concrete Culverts Strengthening Using Near Surface Mounted and Externally Bonded FRP Retrofit Techniques Larry Yang, Yasuto Nakamura	15: Behaviour of Circular Geopolymer Concrete Columns Reinforced with GFRP Bars and Helices under Axial and Flexural Loads Shehroze Ali
11:25	12: High Strength Reinforcing Steels: The Benefits and how they are Delivered Anthony Ng	19: Improving the Way we Approach Temporary Works Barnabas Ilko Mieaust Cpeng	68: Experimental study on Concrete Strengthened with Steel Rings, Wire Mesh and Modified High Strength Mortar under Axial Compression Ellen Zhao Mieaust
11:45	55: Innovative prefabricated in high-rise buildings Shan Kumar	43: Precast super-T girders designed to accommodate flare geometry at the Bridge on The Northern Road over the M4 Motorway Nell Hardy	
12:05	2019 John Connell Medal Presentation	1: Fatigue assessment of a steel through girder rail bridge using AS 5100-2017 Luke Weatherstone, Ben Chung, Vahid Manoochehrikian	
12:25		59: Australia's first bridge: lessons learnt John Hilton Fieaust Cpeng Engexec	
12:45	Break & Virtual Exhibition		
13:30	Panel Discussion: Pandemic shock - do we "snap back" or aim to "snap forward"? Marco Assorati, Benita Husband Fieaust Cpeng Engexec, Jane Macmaster Fieaust Cpeng Engexec, Carl Chouler		
14:45 - 15:35	Virtual Networking Wednesday		

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	Room A	Room B	Room C
09:00	Plenary Day 2		
09:00	The Aftermath of Disaster in Christchurch - Repairing, strengthening and creating new hope Helen Trappitt		
10:00	Break & Virtual Exhibition		
10:15	Buildings: Seismic	Buildings: Materials	Engineering 4.0
	<i>Chairperson: Peter Statton, Shan Kumar</i>	<i>Chairperson: Spiros Dallas, Dean Ashton</i>	<i>Chairperson: Harrison Chua, Nicolette Cumbo</i>
10:15	69: The Impacts of Higher Seismic Hazard Requirements on the Design and Performance of Ordinary Reinforced Concrete Buildings in Australia Prashidha Khatiwada Gradieaust, Xiangzhe Weng	73: Design of Cold-Formed Ferritic Stainless Steel-Unlipped Channels with Offset Web Holes under One-Flange Web Bearing Load Cases Amirmohammad Yousefi Mieaust	66: Prefabrication Industry 4.0 Model for Tomorrow Joyce Ferng Fieaust Cpeng
10:35	20: Waste Water Treatment Plant upgraded to improve future earthquake performance James Ogrady Fieaust Cpeng	74: Experimental and Numerical Investigations of Cold-Formed Austenitic Stainless Steel Channels Under Bearing Loads Amirmohammad Yousefi Mieaust	83: How do we share Lessons Learnt from past failures? Peter Ho Am Fieaust Cpeng
10:55	30: Seismic test programme on a proprietary tension only bracing system: ReidBrace™ Emanuele Naccini	61: AS/NZS 2327 Composite Structures - The future direction of steel design and construction in Australia John Merrick Fieaust Cpeng	71: altCONNECT – An Innovative Structural Steel Connection Without Bolts or Welds Dave Meney, Brandon Westdorp
11:15	52: Experimental Findings on the Seismic Performance of Reinforced Concrete U-shaped Walls using the Digital Image Correlation Technique Ryan Hoult	90: A new two-dimensional continuum-to-frame transition element based on substructure method Pengjun Zhao Mieaust Cpeng	
11:35		Buildings: Environmental <i>Chairperson: Spiros Dallas, Dean Ashton</i>	
11:35	72: Simplified approach for multi-storey asymmetrical buildings in regions of low to moderate seismicity Elisa Lumantarna	54: Low-carbon concrete: How engineers can lead the change David Law	
11:55	75: Lightweight masonry blocks with expanded perlite aggregate for bushfire resistance Indunil Erandi Ariyaratne	5: Mid-rise engineered wood structures: a growing trend in Australia Paolo Lavisci	
12:15	R W Chapman Medal 2019 Presentation		
12:45	Break & Virtual Exhibition		
13:30	Panel Discussion: Sustainable Built Environments in the 21st Century Joe Karten, Jane Ogilvie Mieaust, Garry Ormston, Paul Stoller, John Bahoric Mieaust Cpeng		
14:45 - 15:35	Virtual Networking Thursday		

73 & 74: not presented

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	Room A	Room B	Room C
09:00	Plenary Day 3		
09:00	Forensic Engineering - Case histories and competence implications Don Mcquillan		
10:00	Break & Virtual Exhibition		
10:15	Buildings: Fasteners	Research	Buildings: Miscellaneous 2
	<i>Chairperson: Shan Kumar, Peter Statton</i>	<i>Chairperson: Geoff Taplin, Amin Heidarpour</i>	<i>Chairperson: Spiros Dallas, Dean Ashton</i>
10:15	24: Review of design and prequalification of cast-in anchor channels Tilak Pokharel	22: Inspection System for Industrial Structures Grace Go Mieaust	65: Structural Dynamics Noise and Vibration: Buildings Adjacent to Train Lines Pablo Reboredo Gasalla
10:35	27: Tensile Behaviour of Cast-in Headed Anchors with Void Formers in Early Age Concrete Osamah Obayes Gradieaust	32: Nonlinear transient analysis for the design of structures in fire: 14 storey case study Matthew Walden Mieaust Cpeng	92: Prefabricated connection for assembly of steel beam to concrete filled steel column Chenting Ding
10:55	25: Fastenings in masonry - what matters? Jessey Lee	91: Design checklist for critical public infrastructure assets on counter-terrorism measures Ruwan Weerakoon	18: Structurally Engineering the Third World Brendan Letter Mieaust
11:15	9: Channel bolts under static and seismic shear loads in the axis of anchor channels Christoph Mahrenholtz	63: Repository of Hands-on Performed Experiments for On-line Delivery of Structural Engineering Course Material Nicholas Haritos	10: Results of Timber-Framed Shear Wall Tests Craig Cowled
11:35	56: Post-installed retrofitting system for improving the punching shear and shear capacity of reinforced concrete elements Jochen Buhler		17: Handling Large Rebar Cages Russell Keays Fieaust Cpeng
11:55	31: Epoxy Bonded Anchors and Durability vs Design Life Andrew Coumaros		41: Cyclic modeling of prefabricated high-capacity hybrid members Fatemeh Javidan
12:15			39: Wind-Induced Creaking Noise Assessment of a Large-Scale Assembly of Drywall System using Multi-Axis Testing Hamidreza A Yazdi
12:45	Break & Virtual Exhibition		
13:30	Panel Discussion: Prefab Modular- a Construction Disruptive Technology George Argyrou, Murray Ellen, Joyce Ferng Fieaust Cpeng, Tim Newman, Shan Kumar		
14:45 - 15:35	Virtual Networking		

91: not presented