

## Concrete NZ Conference 2022 Technical Programme (At 23 Sept 2022)

	3 OCTOBER			
10.00 - 17.00	Registration desk open			
	SKELLERUP & ORPUS ROOM	BAY TRUST FORUM		
11.00 - 12.00	Concrete NZ – Precast Meeting			
		11.30 – 12.0	0 Concrete NZ – Readymix Annual Meeting	
11.30 – 12.45	Lunch – Exhibition Hall			
	BAY TRUST FORUM			
12.45 - 13.00	Conference Opening			
13.00 – 14.45	Session 1 Chair: Alessandro Palermo			
	<b>KEYNOTE:</b> The Future of Concrete Santiago Pujol (University of Canterbury)			
	A Vision for Fast Decarbonisation of the NZ Concrete Industry <i>Kevin Larcombe (Holcim NZ)</i>			
	Americas Cup 36 – Hobson Wharf Extension Design and Construction Joshua Paterson, Ted Polley (Beca Ltd) and Murray Ford (Downer)			
14.45 - 15.30	Afternoon Tea – Exhibition Hall			
	BAY TRUST FORUM	Sk	ELLERUP & ORPUS ROOM	
15.30 - 17.00	Session 2A Chair: Alistair Russell		ssion 2B air: John Marshall	
	A Dissipative Controlled Rocking Column Solu Bridge Piers on Monopiles Sabina Piras, Alessandro Palermo, Gabriele ( (University of Canterbury)	Co Chiaro Gi	ix Design and Fresh Properties of 3D Printed oncrete <b>useppe Loporcaro, Don Clucas</b> (University of onterbury)	
	Effect of Accelerated Curing and Admixtures Concrete Shrinkage Hossein Askarinejad, Jonathan Chantarawite Kiran Joshipandey (Ara Institute of Canterbur Trevor Sawyer (Firth Concrete)	Pi Don, Ai	aluation of the Durability of AutoCast Concrete oe Against Machine-Made Concrete Pipe <b>nerico Dos Santos, Tim MacIntosh</b> (Hynds Pipe stems Ltd); <b>Daksh Baweja, Hayden Duffy</b> (BG&E)	
	Pioneering a New Way of Building Bridge Pier Hugo Jackson, Alison Craigie (Fulton Hogan (	Civil) Co	pre-Reinforced Concrete: A Technical Insideration on Application and Design In <i>Hundloe (Master Builders Solutions Pty Ltd)</i>	
	Low Damage Rocking Concrete Wall Structure Resilient Hold-downs and No Post-Tensioning Applications, Stiffness and Case Study Ashkan Hashemi, Nicholas Chan, Rick Henry, Quenneville (University of Auckland); Chris Wallington, Samir Govind (Beca); Pouyan Za	g: Vi Ja Pierre	rbonation Resistance Factor for Concrete neet Shah, Allan Scott (University of Canterbury); mes Mackechnie (Concrete NZ/Allied Concrete Ltd	

	BAY TRUST FORUM
17.00 - 17.30	Concrete NZ Learned Society AGM
17.30 - 18.00	Concrete NZ AGM
18.30	President's Reception – Exhibition Hall
19.00	Depart for Casual Conference Dinner & Entertainment

FRIDAY 14 OCTOBER				
8.00 - 13.30	Registration desk open			
	BAY TRUST FORUM			
8.30 - 10.15	Session 3 Chair: Dave McGuigan			
	Strength Classification and Durability of Concrete Made from Industrial or Natural Supplementary Cementitious Materials James Mackechnie (Concrete NZ/Allied Concrete Ltd); Vineet Shah, Allan Scott (University of Canterbur Waikato Expressway – Hamilton Section Ted Polley (City Edge Alliance)			
	It's Okay Not to Be Okay – Your Daily Mental Health Journey <i>Mike Botherway</i> (Higgins Concrete Ltd)			
	Northland Rail Upgrade – Fast-tracked Replacement of Five Bridges Using Post-Tensioned Segmental Construction Matthew Ireland, Aidan Summers (Holmes Consulting); Rafael Ballen (KiwiRail)			
10.15 - 11.00	Morning Tea – Exhibition Hall			
	BAY TRUST FORUM	SKELLERUP & ORPUS ROOM		
11.00 - 12.45	Session 4A Chair: Moustafa Al-Ani	Session 4B Chair: Kerry Newton		
	Design and Construction of Te Wananga – A New Waterfront Space for Auckland Alex Vink (Tonkin & Taylor); Alex Foxon (Isthmus Group Ltd); Kiel Heeks-Purell (HEB Construction)	Rubberised Concrete: Material Characterization and Mechanical Behaviour Ernesto Hernandez, Royce Liu, Alessandro Palermo, Gabriele Chiaro, Allan Scott (University of Canterbury)		
	Overview of the Cyclic Shear Behaviour of Corrosion Damaged RC Circular Columns Benjamin Matthews, Alessandro Palermo and Allan Scott (University of Canterbury)	Chemical and Mineral Admixture Concrete Mix Design for Sustainability Using Simplex Centroid Model Jarod Wilson, Ezra Jones (Sika)		
	Glass Fibre-Reinforced Polymer (GFRP) Bars – A Durable Reinforcement Alternative for Concrete Bridge Piers <b>Cain Stratford, Alessandro Palermo, Allan Scott</b> (University of Canterbury)	Effect of Curing Condition and Weather on Concrete Cylinder Compressive Strength <b>Opinder Saggi, Nasser Almesfer, Craig Bezett</b> (Allied Concrete Ltd)		
	Tokomaru Bay - Historic Wharf Restoration Using Modern Materials <b>Ray Hudd, Mark Dyer, James Brott</b> (University of Waikato)	The Revised NZS 3104 Specification for Concrete Production and the Concrete NZ Plant Audit Scheme James Mackechnie (Concrete NZ/Allied Concrete Ltd); Rob Gaimster, Adam Leach, Dave McGuigan (Concrete NZ)		
	Half Moon Bay Marina Precast Concrete Breakwater: Production Lessons Learnt Jamal Almulla (Wilco Precast Ltd)	Golden Bay Cement's Waste End-of-Life Tyre Project Gian Raffainer (Golden Bay Cement); David Welsh (Fletcher Building)		
12.45 - 13.30	Lunch – Exhibition Hall			

13.30	Range of Social Activities – Depart from Energy Events Centre
18.30	Pre-dinner Drinks – Grand Hall, Energy Events Centre
19.00	Formal Conference Dinner & Awards Evening - Energy Events Centre

8.00 – 13.00	Registration desk open		
	BAY TRUST FORUM	SKELLERUP & ORPUS ROOM	
8.30 - 10.15	Session 5A Chair: Ralf Kessel	Session 5B Chair: Paul Dillon	
	Case Study of Solar Panel Installation at Concretec New Zealand Ltd Justin Bragg (Concretec New Zealand Ltd)	The Sound of Music: University of Otago – Music and Theatre Redevelopment Project Alex Kelly, John Heenan, Neill Lewis (Beca)	
	Getting Ahead of the Curve on Decarbonisation and Sustainability <i>Bernie Napp</i> (Concrete NZ)	Effect of Multifaceted Technologies on Concrete in the 2020s Sue Freitag, Mary Ann Halliday (WSP)	
	Hawkes Bay Airport Terminal Redevelopment James Behan, Brendon Cornell, Jessica Jacks (WSP Wellington)	A Review of Concrete Specifications in the New Zealand Industry and the Complications Associated with Them in Practice <b>Paul Donoghue, Trevor Sawyer</b> (Firth Industries)	
	Proposed Test Programme for Concrete-Filled Metal Deck Applications: Bridging the Gap for ETA Approved Mechanical Anchors	High and Ultra-High Performance Concrete for New Zealand Bridges: A Natural Pathway to Sustainable Design	
	<b>Emanuele Naccini</b> (Ramset); <b>Enrique Del Rey Castillo</b> (University of Auckland)	Rosie Pagel, Alessandro Palermo, Ernesto Hernandez (University of Canterbury); Hannah Weise (WSP)	
	Carbon Mitigation Options in the Cement Industry <i>Allan Scott</i> (University of Canterbury); <i>Chris Oze</i> (Occidental College); <i>Vineet Shah</i> (Callaghan Innovation)	Projects and People – What Does the Right Workforce Look Like <i>Mark Williams (Waihanga Ara Rau), Greg Durkin</i> <i>(BCITO)</i>	
10.15 – 10.45	Morning Tea – Exhibition Hall		
	BAY TRUST FORUM		
10.45 – 12.45	Session 6 Chair: Rick Henry		
	A Sustainability Check of Some Recently Constructed Concrete Bridges – A Case Study Jamil Khan (Beca Ltd)		
	Construction of Tekapo a New Intake Gate and Shaft Mark Hedley (Downer NZ); Alex Parfitt (Parfitt Construction Ltd)		
	Testing of Flange Hung Double Tee Units with Loop Bars <b>Rick Henry, Matthew Jenkins, Ken Elwood</b> (University of Auckland)		
	Underpinning of Auckland's Chief Post Office Building Niraj Ranjit, Dale Burtenshaw, Michael Chung (Aurecon); Nick Craig (Downer Soletanche Bachy JV)		
	Building the Largest Floor Slab in New Zealand and the Future of High-Performance Floors – A Case Study or Foodstuffs North Island Distribution Centre (NIDC) <i>Tim Walker (Face Consultants / RDT Pacific), Sam Datlen-Carter (Conslab)</i>		
12.45 – 13.00	Sandy Cormack Award and Conference Closure		