Technical Papers (TR42)

Session 1:
- The Building & Construction Sector – A Way Forward (Maurice Williamson – Minister of Building & Construction)
- Design of Offshore Concrete Structures (Tor Ole Olsen – Dr.techn.Olav Olsen)
- Delivering Transport Infrastructure (Geoff Dangerfield – NZ Transport Agency)

Session 2:
- Concrete Structures – Structural Engineering Issues and the Department of Building & Housing (Mike Stannard / David Hopkins / Graeme Lawrence – Department of Building & Housing)
- Bridge 45 NAL (Scott Valleyly – HEB Structures)
- Rehabilitation of Bridges with Concrete Overlays (Gilbert Balbuena / Jacob Kunz – Hilti New Zealand Ltd)

Session 2A: (NZRMCA Concurrent Materials Session)
- Recycled Concrete Aggregate and its application in New Zealand Ready-Mix Concrete Production (Wentao Zhang – Stahlton Engineered Concrete; Chris Munn – Allied Concrete)
- Pumice Aggregates for Structural Lightweight and Internally Cured Concretes (Samuel Green – Arup; Len McSaveney – Golden Bay Cement)
- A Brewery built from Millions of Beer Bottles: Use of Glass Aggregate Concrete (Greg Slaughter / Campbell Robertson – Holcim New Zealand Ltd; Ross Copland – Mainzeal)
- A Critical Review of Test Methods for Determining the Quality of Fine Aggregates, Sands and Basecourses in New Zealand (Jason Lowe – Winstone Aggregates; Douglas Wilson / Philippa Black – University of Auckland)

Session 3:
- Design and Construction of the New Mangere Bridge (Alex Parfitt / Juan Pretorius – Fletcher Construction; Ronald King / Andrew Dickson – Beca Infrastructure Ltd)
- Manukau Harbour Crossing Durability Modelling (Dene Cook – Firth New Zealand Ltd; Andrew Dickson – Beca Infrastructure Ltd)
- An investigation to establish the severity, prevalence and distribution of prestressed precasting steel corrosion risk in the New Zealand concrete bridge stock (Rhys Rogers / Jason Ingham – University of Auckland)
- Design and Construction of the New Lynn Rail Trench (Stephen Lee – Beca Infrastructure Ltd; John Palm – Fletcher Construction)

Session 4:
- SESOC’s View on Double Tee Supports (John Hare – SESOC Management Committee / Holmes Consulting Group)
- Flange Supported Double Tees – An Historical Perspective (Len McSaveney – Golden Bay Cement; Rod Fulford – Precast NZ Inc)
- Prototype testing of Extended Loop Bar Details for Flange Hung Double Tee Flooring Units (Rhys Rogers / Moustafa Al-Ani / Nicholas Brooke – University of Auckland; Len McSaveney – Golden Bay Cement)
- Experimental Testing of the Support Systems for Precast Concrete Double Tee Flooring (Chris Allington – Holmes Solutions Ltd)

Session 4A: (NZRMCA Concurrent Session)
- Steel Fibre Reinforced Concrete (SFRC) – Quality, Performance and Specification (Alan Ross – BOSFA)
- The Economy and the Concrete Industry (NZIER)
- The Weather Outside is Frightful (Ken Ring)
- GBC – New Service Centre Update (GBC)

Session 5:
- Precast in Control (John Hare – Holmes Consulting Group)
- Push Over: An artistic vision of concrete construction (Simon Glass – Artist; University of Auckland)
- New Opportunities: Why Precast Concrete Claddings Deserves Another Look (Morten Gjerde – Victoria University of Wellington)

Session 5A: (NZRMCA Concurrent Related Projects Session)
- The Construction of a new State of the Art Batching Plant on an environmentally sensitive “Greenfields” site in Christchurch (Chris Munn – Allied Concrete)
• A Detailed Investigation of the Uptake of CO2 in Crushed Concrete (Kiran Dayaram – University of Canterbury; Greg Slaughter / Michael Rynne – Holcim New Zealand Ltd)
• Concrete, particularly for the Oil and Gas Industry (Tor Ole Olsen – Dr.techn.Olav Olsen)
• Formliners, Moulds and Photo Engraved Technology (John Joveski – Reckli NZ & Australia)

Session 6:
• Use of Steel Fibres in Precast Segment Linings – The Hobson Bay Sewer Tunnel Experience (Ralf Winterberg – Macccaferri Italy; Dan Wilson – Wilson Tunnelling Ltd; Rory Bishop – McConnell Dowell)
• Quay Park One, Mahuhu Crescent, Auckland (John McCurran – CPG New Zealand Ltd)
• Rotokawa Geothermal Turbine Tabletop Support Structure (Jamil Khan / Hamish Brookie – Beca Infrastructure Ltd)