

**SESOC Conference 2021 - Icebreaker Function Sunday 4 July 2021**

Time	
17.00-18.00	Registration
18.00-19.30	Icebreaker- Meet and Greet

**SESOC Conference 2021 - Day 1 - Monday 5 July 2021**

Time	Session		
8.00 - 9.00	Registration/Coffee and Tea		
9.00 - 9.10	Carl Ashby - 'Conference Welcome'		
9.10 - 9.20	SESOC President Address'		
9.20 - 10.00	(KN1) Professional Engineering and the Engineering Technician - Paul Campbell - SESOC Past President (40min) Chair: Carl Ashby		
10.00 - 10.20	Morning Tea		
10.20 - 12.00	Plenary Session 1 - Low Damage Design Guidance and Seismic Resilience Chair: Prof. Jason Ingham		
10.20 - 10:45	(DS5) 'NZ Low Damage Seismic Design Guidance Information. Stuart Oliver - Holmes Consulting Group		
10.45 - 11.10	(DS1)'ATC-145: Framework for Assessing the Extent of Repair Required for Earthquake-Damaged Concrete Moment Frames. Nicholas Brooke – CompuSoft Engineering Ltd		
11.10 - 11.35	(DS41) 'Resilient Buildings Project - Helen Ferner - NZSEE President		
11.35 - 12.00	(DS 36) Moat Wall Pounding Analysis for a prototype base-isolated building in Wellington - Prof. Ken Elwood - University of Auckland		
12.00 - 13.00	Lunch		
13:00 - 13:40	(KN2) Our Modelling John Hare - Holmes Consulting (40 min) Chair: Hamish McKenzie		
13.40 - 15.30	Plenary Session 2 - Current Design Practice - Reflections and Observations Chair: Hamish McKenzie		
13:40 - 14:05	(DS2) Human Factors in Structural Engineering - Gordon Hughes - G A Hughes and Associates		
14:05 - 14:30	(DS 40) Trends and Observations from Consenting Reviews - Carl Ashby / Stanley Chung - WSP NZ Ltd		
14:30 - 14:55	(DS 42) Computer Modelling - Know the Limitations - Nic Brooke - CompuSoft Engineering		
14.55 - 15.00	Session 2 Questions and Conference Announcements - Hamish McKenzie		
15.00 - 15.30	Afternoon Tea		
15:30 - 17:00	Session 3A - Sustainability and the Structural Engineer Chair: Charlotte Toma	Session 3B - Emerging Structural Engineers (ESE) Papers Chair: Laura Schwass	Session 3C - General and Small Engineering Practice Consultants Special Session Chairs: Martin Pratchett and Ian Watson
15.30 - 15:45	(DS15) An Introduction to Transition Engineering and it's Implications for the Practice of Structural Engineering in New Zealand from 2021-2035 Brendon Donnell Structure Design Ltd	Mistakes Happen - Then What? Vini Moelianto - WSP NZ Ltd	Welcome by SESOC President Michelle Grant (5mins) Why be an Engineering General Practitioner - Peter Van Grinsven (10 mins)
15.45 - 16:00	(ESE2) The Embodied Carbon of buildings in New Zealand: Proposals for Future Regulation, and the Role of Increased Seismic Resilience Katie Symons MBIE	(ESE 3) Integrating Sustainability Considerations into Structural Engineering Phoebe Moses - BECA	Dealing with Difficult Clients - Avoiding Complaints Stacey Campbell - Engineering NZ
16.00 - 16:15	(DS10) Embodied Carbon in Structural Design: A Detailed Assessment of A c.12,000m2 Residential Development in Auckland: Nick Carman - Mott MacDonald NZ	(ESE 5) Mental Health in the Structural Engineering Profession Michael Geddes - WSP NZ Ltd	Small Office Practice Helen Davidson - Chief Executive - ACE
16.15 - 16:30	(DS12) Challenges and Possible Solutions for Structural Engineers Seeking to Make a Positive Contribution to the Climate Emergency Jared Keen - BECA	(ESE 7) Enabling Earthquake Repairs in an Extreme Environment Ben Exton - Structex	The Differences in Detailing for Residential and Light Commercial Practice Alisdair Sinclair - DTCE Consultants
16.30 - 16:45	Discussion Panel on Sustainability (30mins) all presenters including Charlotte Toma, Katie Symons, Nick Carman, Jared Keen, Brendon Donnell	(ESE 8) A Simpler Approach to Strengthening Unreinforced Brick Masonry Buildings in New Zealand - Matthew Cutfield / Hamish Tocher - Holmes Consulting	The Things I wish I Knew - Starting a Small Business Julie Elliott, Hawk Cooper, Anthony Cook Panel: Gordon Hughes, Ian Watson, Hawk Cooper, Anthony Cook, Pete Van Grinsven
16.45 - 17:00		Ashburton District Council Civil Centre: Learnings on Timber Connections - Amber Coulthard - Beca	Networking and Refreshments (15mins) - Hosted By SESOC President - Michelle Grant
17.00	Day 1 Close		
19.00 - 19.30	Pre-dinner drinks and networking		
19.30 - Late	Conference Dinner and SESOC Awards		

**SESOC Conference 2021 - Day 2 - Tuesday 6th July 2021**

Time	Session			
8.00 - 9.00	Registration/Coffee and Tea			
9.00 - 9.05	Day 2 Welcome			
9.05 - 9.45	KN3 (DS16) Innovation the next big thing or the next big failure Rick Henry (40 mins) Chair: Carl Ashby			
9.45 - 10.05	(DS22) Factors Affecting the Balancing of Gender Representation in the Engineering Industry - Hanna Davidson / Lucy Devonshire			
10.05 - 10.30	Morning Tea			
10.30 - 12.15	Technical Session 4A - General Practitioner Topics Chair: Michelle Grant	Technical Session 4B - Standards Updates Chair: Enrique del Rey Castillo	Session 4C - Bridges and Civil Structures Chair: John Tait	ACA Session 1
10.30 - 10.55	(DS19) On the Edge: Structural Design Examples of scaffold in WLG David Morrison - Morrison Design Consulting Engineers Ltd	(DS17) NZS3404 Block Shear Steel Connection Design Provisions Kevin Cowie - SCNZ	DS 26 Innovative Seismic Design of Peka Peka to Otaki Expressway Bridges Jamil Khan - Beca	Updating SNZ TS 3404 – where are we now and where to from here? Raed El Sarraf - WSP
10.55 - 11.20	(DS18) How to Avoid being Sued - 10 Tips for Consulting Engineers Ian Watson - IL Watson Consulting	(DS 20) The Revised Specification for Concrete Production NZS3104:2021 Dave McGuigan - Concrete NZ	(DS25) SH2 Wairoa River Cycleway Extension Ronald Wessel- Beca	Concrete – the long term solution James Mackechnie - CCANZ
11.20 - 11.45	(DS 37) Avoiding 50% of RFIs, the Importance of clear documentation Martin Pratchett - Engineering NZ	(DS 6) Development of the NZ Earth Building Standards NZS 4297, 4298 & 4299:2020 Richard Walker	(DS7) Design of Te Wananga - An Architectural concrete wharf Alex Vink -T&T	How durable is your timber? Nick Marston - BRANZ
11.45 - 12.10	(DS 27) Updating Verification Method B1/VM4 – Section 3.0 – Shallow Foundations Nick Clendon - Coffey Services	Building Regulatory Update Mark Ryburn - MBIE	(DS33) Design for Manufacture and Assembly (DfMA) Civil Structures and Bridges Liam Edwards - Beca	Building shiny bridges and buildings, exploring the beauty of stainless steel Paul Gapper - NZSSDA
12.10 - 13.15	Lunch			
13.15 - 15.00	Technical Session 5 A - Engineering Case Studies Chair: John Snook	Technical Session Session 5 B - Research Topics Chair: John Tait	Technical Session 5C - Structural Analysis Chair: Hamish McKenzie	ACA Session 2
13.15 - 13.40	DS 30 - Regenerative Practice in Structural Engineering - A case study Dunedin South Library Simon Burrough	(DS8) The Cost of more resilient Structures Enrique del Rey Castillo - UoA	(DS 31) The Effects of the Extent of Cracking on the Design of Reinforced Concrete Structures using Elastic Methods	How to design durable structures for Waka Kotahi Liam Coleman - Waka Kotahi NZTA
13.40 - 14:05	(DS9) - Seismic Resilient Mass Timber Structures with Damage-Avoidance Connections: Developments, Design Methods and Case Studies Ashkan Hashemi - UoA	(DS 11) Testing and Design Recommendations of confinement to wall ends with FRP Laminate and Spike Anchors Zhibin Li - UoA	(DS21) A Brief Investigation into Estimating Floor Spectra for Base Isolated Buildings - Didier Pitenga Holmes Consulting LP	Dealing with B2 - meeting the Councils requirements Andrew Boyd - Auckland Council Building Consents
14: 05 - 14:30	(DS2) SESOC Software - Recent Developments Geoff Bird - BECA	(DS 14) Using an innovative low damage anchorage system for industrial tanks Kaveh Sahami - UoA	(DS28) A New Way of Working – Using Digital Tools for Everyday Engineering Alex Baylis - Robert Bird Group	Overview of Engineering NZ Position on Producer Statements and B2 Martin Pratchett - Engineering NZ
14:30 -15:00	Afternoon Tea			
	Plenary Session 6 - Chair Prof. Jason Ingham			ACA Session 3
15.00 - 16.00	Lightning Talks - Hosted By Jason Ingham 10 presenters 60 minutes			2 presentors, 25 mins each
15:00 - 16:00	3D Printing: A catalyst for innovation Prof. Olaf Diegel - UoA	Design to construction - Seismic chasm or bridgeable Gap? Andrew Blackford - Naylor Love	A computer couldn't do my job ... Matt Bishop - BVT Engineering	Intumescent Coatings - the FPA Specification Garth Moran - Altex
	Auckland Harbour Bridge - 2020 Truss Repair Liam Edwards - Beca	Embodied carbon assessments for NZ Buildings: Where to Start? Nick Carman - Mott MacDonald NZ	Understanding the Value of a talented drafter Annie Scott - Jensen McArley Austin	
	Digital transformation and disruption Prof. Robert Amor - UoA	A post-Dickensian tale of two whare Prof. Anthony Hoete- UoA	Interdependent vulnerabilities in critical post-disaster organisations Patrick Cummeuskey - Auckland Council	
	15 mins Q&A			
16.00 - 16.25	(KN4) Development and Validation of Retrofit Techniques for Hollowcore Floors Frank B�ker / Nic Brooke (40 mins)			ACA Open Forum
16:25 - 16:30	Conference Close - Michelle Grant SESOC President			