

2025 NZSEE Programme – DRAFT

Day 1: Tuesday 8 April 2025

08:00-18:00	Registration Desk Open Great Room Foyer		
09:00-09:30	Mihi Whakatau Conference Opening Opening Address by Mayor Wayne Brown Great Room 1&2		
09:30-10:30	Keynote 1: Marwan Nadar Seismic Design Strategies on Major Bridges Located in High Seismic Zones Great Room 1&2		
10:30-11:00	Morning Tea Break Great Room 3&4		
11:00-12:50	01A – Evaluation of Existing Buildings, Seismic Strengthening & Retrofit Room: Great Room 1&2	01B – Building Code Compliance, Building Legislation, Standard Development Room: Crystal 2	01C – Engineering Seismology, Seismic Hazard and Ground Motions Room: Jade 1&2
11:00-11:15	01A.1 Seismic Strengthening of Te Whare o Rehua Sarjeant Gallery in Whanganui Philip Yong & Ian Brown	01B.1 Preliminary Observations from the Chile-NZ Research Collaboration on the Seismic Design of Hospitals Quincy Ma	01C.1 The Past and Future of Ground-Motion Models: A Review on Uncertainty Sanjay Bora
11:15-11:30	01A.2 A Draft Performance Framework for Common NZ URM Buildings Seismically Strengthened using Standard Details Hamish Tocher & Alistair Cattanach	01B.2 Seismic Risk and the Building Code - Integrating Geotechnical Requirements (For New Building Design Work) Kiran Saligame	01C.2 Framework for Selection of Representative Earthquake Scenarios for Wellington Preetish Kakoty
11:30-11:45	01A.3 Seismic Retrofit of URM Parapets using Vertical Screw Reinforcing: Experimental Testing and Simplified Design Approach Dmytro Dizhur	01B.3 A Comparison of the Seismic Demands Calculated for Residential Buildings using DZ TS 1170.5 and NZS 3604 Nadia Luketina	01C.3 Non-ergodic Analysis of Hybrid Broadband Ground-Motion Simulations in New Zealand Juan Jose Sepulveda Garcia
11:45-12:00	01A.4 A Methodology for the Seismic Assessment of Infilled Frames with Significant Vertical Discontinuities	01B.4 Functional Recovery of Bridge Networks: Framework Development and Implementation	01C.4 The New Zealand Ground-Motion Database: A 2024 Update Aaron Rampersad

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	Rolf Veldboom & Jonathan Chambers	Chenhao Wu	
12:00-12:15	01A.5 Seismic Retrofit of a Two-Storey Reinforced Concrete Building Using Moment-Resisting Frames (MRFs) incorporating the Optimised Sliding Hinge Joint (OSHJ) Shahab Ramhormozian & Mahinda Ellegala	01B.5 Shaping Future Practice for Non-Structural Seismic Performance Jan Stanway	01C.5 Progress on the NZ-Wide Vs30 Map Update Jaehwi Kim
12:15-12:30	01A.6 Understanding Potential Avoided Upfront Carbon Emissions through Strengthening of Seismically-Deficient Buildings Annie Scott	01B.6 Damage Observed in Chilean Hospitals during the 2010 Mw 8.8 Maule Earthquake Renato Calcagno	01C.6 Validation of Hybrid Broadband Ground-Motion Simulation for Large Magnitude Earthquakes in New Zealand Cesar Pajaro Miranda
12:30-12:45			01C.7 Influence of Ground Motion Spatial Variation in the Seismic Risk of a Proposed Inter-City Railway Francis Jenner Bernales
12:45-13:15	Q&A Panel	Q&A Panel	Q&A Panel
13:15-14:15	Lunch Great Room 3&4		
14:15-15:35	02A – Structural Response & Experimental Testing of Structural Systems (Part 1) Room: Great Room 1&2	02B – Structural Response & Experimental Testing of Structural Systems (Part 2) Room: Crystal 2	02C - Performance of Non-Structural Components & Structural Connections Room: Jade 1&2
14:15-14:30	02A.1 Modelling and Test-Analysis Correlation Study of a Five-Story Building Using in-Situ Measurements Kawa Andisheh	02B.1 Seismic Performance of Concrete Wall-Steel Beam Bolted Web Plate Connections Claire Pascua	02C.1 Seismic Restraint Approaches in Existing Buildings Andrew Baird

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14:30-14:45	02A.2 Pre-Assessment of Real-time Hybrid Shake Table Test for Evaluation of Seismic Response of MDOF System Saurabh Shiradhonkar & Iwansh Gupta	02B.2 Flexural Strengthening of RC T-beams using Varied NSM-CFRP Configurations Yanuar Haryanto	02C.2 Seismic Performance of Rocking Precast Concrete Cladding Panels and Internal Partition Walls in a Three-Story Steel Test Building Rajesh Shrestha
14:45-15:00	02A.3 Experimental Study on Real-Time Hybrid Testing for a Reinforced Concrete Structure Shih Wei Yeh	02B.3 Comparative Analysis of Confined and Unconfined UHPC Column Under Axial Loading Manish Acharya & Mustafa Mashal	02C.3 Numerical & Experimental Seismic Analysis of Cold-Formed Steel Pallet Rack Connections in the Down-Aisle Direction Nima Shokrollahi
15:00-15:15	02A.4 Seismic Performance of Rib and Infill Floors Amir Moshref	02B.4 Full Scale Semi-Cyclic Experimental Validation on the use of Plywood Panels for the In-Plane Strengthening of URM Walls Dmytro Dizhur	02C.4 Seismic NSE Hiccups and Solutions from Buildings Services Perspective Prashant Patel
15:15-15:35	Q&A Panel	Q&A Panel	Q&A Panel
15:35-16:05	Afternoon Tea Break Great Room 3&4		
16:05-18:00	Plenary 1: Managing Seismic Risks in Existing Buildings Henry Tatham, Matthew McDermott, Jenni Tipler Great Room 1&2 Plenary 2: Seismic Risk Working Group Updates [PRESENTERS TBC] Great Room 1&2		
18:00-18:30	NZSEE Annual General Meeting Great Room 1&2		
18:30-20:00	Welcome Reception, Poster Session and Young Professionals Meet and Greet Great Room 3&4		

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Day 2: Wednesday 9 April 2025

07:30-18:00	Registration Desk Open Great Room Foyer		
07:30-08:30	Breakfast Session 1 Design Competition Presentations		
08:30-09:30	Keynote 2: NHC Toka Tū Ake Keynote Speaker Laurie Johnson Earthquake Resilient Infrastructure: How Do We Get It? Insights from Efforts in San Francisco and the U.S. Great Room 1&2		
09:30-10:30	Keynote 3: Santiago Pujol Expecting the Unexpected Great Room 1&2		
10:30-11:00	Morning Tea Break Great Room 3&4		
11:00-12:00	Plenary 3: Putting People at the Heart of Engineering Sonny Vercoe, Jeff Fahrensohn, Julia Becker, Charlotte Brown Great Room 1&2		
12:00-13:00	Lunch and He Tohu Pupu Seismic Design Competition Great Room 3&4		
13:00-15:00	03A – Concrete Structures Room: Great Room 1&2	03B – Energy Dissipation Systems & Seismic Dampers for Improved Seismic Performance Room: Crystal 2	03C – Geotechnical Performance, SSI & Liquefaction Assessment, Tsunami & Their Impact Room: Jade 1&2
13:00-13:15	03A.1 Conceptual Development of Demountable Floor-Frame Connections to Avoid Seismic Damage to Precast Floors Gonzalo Lozano	03B.1 Diaphragm Design Considerations for Buildings Utilizing Viscous Dampers Nikoo Hazaveh	03C.1 Seismic Strengthening of a Deep Basement Wall in a High Seismicity Area: A Case Study in Wellington Mikias Yohannes
13:15-13:30	03A.2 Damage to Demolition – Challenges and Findings from Inspection of Damaged Hollow Core Floors Hamish McKenzie	03B.2 An Evaluation of Buckling Restrained Braced Frames with Eccentric Brace Configurations Brandt Saxey	03C.2 Addressing Biases with Mapping Liquefiable Soil Maxim Millen
13:30-13:45	03A.3 Seismic Performance of Non-Ductile Reinforced Concrete Frame Detailing Banu Ardi Hidayat	03B.3 Effect of Coupling between the Moment Frame and the Viscous Damper on Seismic Response of a Steel Building Ali Rad	03C.3 Seismic Lateral Pile Capacity Analysis in Marine Soils: Philippine Practices with Open-Source Frameworks Enrico Luis Abcede

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13:45-14:00	03A.4 Seismic Performance Evaluation of Reinforced Concrete Structures with Infill Masonry Walls Containing Various Opening Locations Qudratullah Sharafi, Taufiq Ilham Maulana, Taiki Saito & Mukhtar Ahmad Ehsas	03B.4 The Efficacy of Linear and Nonlinear Viscous Damper Subsystem Stiffness on Response Reduction in SDOF System Subjected to Earthquakes Hayman Ahmed	03C.4 Modelling Earthquake Induced Cascading Hazards alongside Probabilistic Risk Assessment: A Pilot Study of Napier City Katie Jones
14:00-14:15	03A.5 Performance Based Seismic Design using NLTHA: Retrofit of a 1980's 12 Storey RC Structure in Wellington for New Seismic Hazard Arun Puthanpurayil	03B.5 New Friction-based Seismic Brace: Cost-efficient Alternative to BRB's and EBF's Pouyan Zarnani	03C.5 To which extent coastal ecosystems can play a mitigation role against tsunami waves & currents in Aotearoa New Zealand? S R Uma
14:15-14:30	03A.6 Performance-Based Seismic Design of Post-Installed Anchors in New Zealand Dorian Borosnyoi-Crawley	03B.6 Oil Dampers in Seismic Isolation Systems: Experimental Insights, Analytical Findings, and Applications Javier Lopez Gimenez	03C.6 Findings of the Subsurface Compacted Rubble Rafts (SCRR) Pilot Project for Ground Improvement in Severe Liquefaction Mitigation in Christchurch Zhaodong Du
14:30-1500	Q&A Panel	Q&A Panel	Q&A Panel
15:00-15:30	Afternoon Tea Break Great Room 3&4		
15:30-16:45	Plenary 4: Enhanced Seismic Resilience: A Pathway to the Wider Implementation of Dissipative Controlled Rocking in Bridges Brandon McHaffie Great Room 1&2 The Place of Base Isolation and Other Mechanisms for Mitigating Significant Seismic Hazard Risks in Bridges Mustafa Al-Ani Great Room 1&2 MBIE/NHC/SESOC Low Damage Seismic Design Guidance Hamish McKenzie Great Room 1&2		
17:00-17:45	Joint Committee for Seismic Assessment and Retrofit Workshop Great Room 1&2		
19:00-22:00	Conference Dinner NZSEE Awards NZSEE/QuakeCoRE Emerging Women Leaders Award		

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	Otto Glogau Award NZSEE Research Scholarship Bulletin Service Award Great Room 1&2
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Day 3: Thursday 10 April 2025

08:30-17:00	Registration Desk Open Great Room Foyer		
08:30-09:15	Plenary 5: Focus on Resilience and Sustainability of Existing and New Buildings Pathmanathan Brabhaharan Great Room 1&2		
09:15-10:15	Plenary 6: Leveraging New Technologies for Earthquake Engineering and Resilience Julian Benito, Raj Prasanna, Maria Mingallon Great Room 1&2		
10:15-10:45	Morning Tea Break Great Room 3&4		
10:45-12:30	04A – Learnings from Earthquakes Special Session Room: Great Room 1&2	04B – Structural Resilience, Including Low-Damage Systems & Earthquake Protection Room: Crystal 2	04C – Steel Structures Room: Jade 1&2
10:45-11:00	04A.1 Observed Damage from 17 Dec 2024 M7.3 Vanuatu Earthquake Laura Whitehurst & John Seward	04B.1 Design, Fabrication and Experimental Performance of Seismic Shear Panel Dampers An-Chien Wu	04C.1 Assessment of Seismic Capacity of Existing Steel Portal Frame Structures Jitendra Bothara
11:00-11:15	04A.2 The 2024 Hualien, Taiwan Earthquake: NZSEE Learning from Earthquakes Reconnaissance Mission Report Bo-Yao Lee, Doug Mason, Richard Mowll, Alice Chiang-Richards, Julian Benito	04B.2 Seismic Performance of Suspended Ceilings with Velcro-Secured Lay-in Tiles via Shake Table Tests Aasish Tiwari	04C.2 Seismic Interaction between a Reticular Structure and Multi-Supported Secondary Structures Fengze Li
11:15-11:30	04A.3 Performance of reinforced concrete buildings surveyed following the 3 April 2024 Hualien Earthquake Lucas Hogan	04B.3 Design and Evaluation of Seismic Resilient Building Structures in China Pan Peng	04C.3 Considerations for Selection of Friction Moment Frame Connection Configuration Roberto Carlevaris
11:30-11:45	04A.4 Effect of Low-Cost Retrofitting systems on performance of Reinforced Concrete buildings Surveyed after	04B.4 The Asymmetric Friction Connection (AFC): Sliding Behaviour and Optimum Range of Installed Bolt Tension	04C.4 Performance of Symmetric Friction Connection with Partially Deflected Belleville Springs

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	the 2024 Hualien earthquake in Taiwan Lucas Hogan	Fatemeh Alizadeh	(SFCBeSs) in a Brace-to-Gusset Plate Connection Zhenduo Yan
11:45-12:00	Discussion	04B.5 Seismic Performance of Steel Braced Frames: Comparing Buckling Restrained Braces, Friction Braces, and Braces with Resilient Slip Friction Joint Dampers Rajnil Lal	04C.5 Innovative Australasian Cold-Formed Steel Platform Framing Collector Beams for Multi-Storey Residential Buildings Ankeeta Karmakar
12:00-12:30		Q&A Panel	Q&A Panel
12:30-13:30	Lunch Great Room 3&4		
13:30-15:05	05A – Seismic Policy, Communication of Seismic Risk & Societal Perception Room: Great Room 1&2	05B – Seismic Isolation Systems Room: Crystal 2	05C – Timber Structures Room: Jade 1&2
13:30-13:45	05A.1 Towards Incentivising Resilience to Natural Hazards in Aotearoa: A Case for Action Ben Exton	05B.1 Building Storey Seismic Isolation Behaviour and Issues Gregory Macrae	05C.1 Challenges in Achieving Seismic Resilience of Light Timber-Framed Houses Angela Liu
13:45-14:00	05A.2 New Zealand Emergency Management of Built Heritage: Insights and Recommendations from a Gap Analyses Study Clara Caponi	05B.2 Optimised and Adaptive Supplementary Damped Isolation Systems Kiran Makan & Peter Huber	05C.2 Traditional Seismic Fuses in Timber Structures - Pros and Cons Pierre Quenneville
14:00-14:15	05A.3 Trends in Medium-Density Housing (MDH) Construction: A Case Study of Mid-Rise Apartments in New Zealand Indriana Apriani	05B.3 Effect of Impact Models on the Response of Base-Isolated Buildings Subjected to Moat Wall Pounding Yuanyuan Wei	05C.3 Experimental Investigation of a Two-Storey Full-Scale CLT Structure with Resilient Rocking Walls Setu Raman Agarwal
14:15-14:30	05A.4 Commemorating the 1974 Dunedin Earthquake to	05B.4 Continuous Column Stiffness Effects on	05C.4 Experimental Testing of a Full-Scale Resilient, Low-Damage, Two-Story Cross

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	Encourage Community Resilience Caroline Orchiston	Buildings with Lower Storey Isolation Gregory Macrae	Laminated Timber (CLT) Wall Structure Soheil Assadi
14:30-14:45	05A.5 War, Earthquake and Recovery Politics in Conflict-Affected Syria Jitendra Bothara		
14:45-15:05	Q&A Panel	Q&A Panel	Q&A Panel
15:05-15:35	Afternoon Tea Break Great Room 3&4		
15:35-16:35	Keynote 4: Park and Paulay Keynote Speaker Ruben Boroschek Structural Health Monitoring for Informed Decision-Making: Practical Insights Great Room 1&2		
16:35-17:00	Conference Closing Conference Awards: Best Student Paper award Best Research Paper award Best Practice Paper award Great Room 1&2		