NZSEE 2013 Technical Conference Michael Fowler Centre, Wellington Conference Programme

Friday 2	6 April 2013	
Time	Venue	
9:00 – 10:00	MFC Fletcher Challenge Foyer	Registration
10:00 - 10:30	MFC Auditorium	NZSEE 2013 Conference Opening
		Official Welcome and Opening Assoc Prof Stefano Pampanin, President, NZSEE
		Celia Wade-Brown, Mayor of Wellington City
10:30 – 11:20	MFC Auditorium Session 1	Keynote Address: the EERI Distinguished Lecture Resilience: An Engineering Challenge Session Chair: Peter Wood, NZSEE 2013 Conference Convenor
		Presenter: Professor Mary C. Comerio, UC Berkeley, California
11:20 - 11:40	Renouf Foyer	Morning Tea
11:40 – 12:05	MFC Auditorium Session 2	Invited Presentation: The State of Earthquake Engineering in New Zealand - One Engineer's View Session Chair: Assoc Prof Stefano Pampanin, President NZSEE Presenter: John Hare, Holmes Group, President SESOC, Christchurch

Friday 26	6 April 2013				
12:05 – 12:30	MFC Auditorium Session 3	Invited Presentation: Earthquake Assessment of School Buildings: Expectation, Issues, and Challenges Session Chair: Assoc Prof Stefano Pampanin, President NZSEE Presenters: Jerome Sheppard (Manager, Policy, Planning & Standards) and Dave Brunsdon (Chair of MoE's Engineering Strategy Group)			
12:30 - 13:30	Renouf Foyer	Lunch			
13:30 – 13:55	MFC Auditorium Session 4	Invited Presentation: the SSA/EERI William B Joyner Memorial Lecture The context and impacts of the Canterbury earthquake sequence of 2010-2011 Session Chair: David Wood, Beca Presenter: Dr Kelvin Berryman, Director, Natural Hazards Research Platform			
13:55 – 15:00	MFC Auditorium Session 5	Forum: Satisfying New Zealand's Appetite for Earthquake Risk Session Chair: Neville Brown, WCC Forum Panellists: Kelvin Berryman, John Hare, Rob Jury, Helen Anderson, David Johnston, Ian Cassels, Kit Miyamoto, John Gardiner & David Hopkins			
15:00 – 15:30	Renouf Foyer		Afternoon Tea		
15:30 – 16:45	Michael Fowler Centre Session 6	6A :Seismic design case studies MFC Auditorium Session Chair: Peter Smith	6B: Seismic hazard modelling Renouf Foyer 1 Session Chair: Richard Smith, EQC	6C: Geotechnical matters Lionharbour View Room Session Chair: Michael Pender	
15:30 – 15:45		Paper No. 1: ONE MARKET LANE - SEISMIC DESIGN POST CANTERBURY Thornton A, Cattanach A	Paper No. 6: EARTHQUAKE HAZARD MODEL FOR LOSS ESTIMATION IN AUSTRALIA USING THE 2012 GA HAZARD MODEL Campbell K, Thenhaus P, Gupta N, Smith D, Khater M	Paper No. 11: CYCLIC STRENGTH TESTING OF CHRISTCHURCH SANDS WITH UNDISTURBED SAMPLES Taylor M, Cubrinovski M, Bradley B,	

NOTE Presentation times, including questions: Keynotes 50 min; Invited 25 min; Orals 15 min.

Friday 26 April	Friday 26 April 2013				
15:45 – 16:00	Paper No. 2: A LOW DAMAGE DESIGN SOLUTION FOR A 15 STOREY STEEL FRAMED BUILDING Tait J, Finnegan J, Sidwell G	Paper No. 7: GROUND MOTION MODELLING OF A LARGE SUBDUCTION INTERFACE EARTHQUAKE IN WELLINGTON, NEW ZEALAND Holden C, Zhao J, Stirling M	Paper No. 12: SEISMIC PERFORMANCE OF GROUND ANCHORS IN WELLINGTON ALLUVIUM Hope A, Palmer S		
16:00 – 16:15	Paper No. 3: KILMORE STREET MEDICAL CENTRE: APPLICATION OF AN ADVANCED FLAG-SHAPE STEEL ROCKING SYSTEM Latham D, Reay A, Pampanin S	Paper No. 8: SENSITIVITY STUDY OF AFTERSHOCK OCCURRENCE FOR A WELLINGTON FAULT EARTHQUAKE Christophersen A, Rhoades D, Hainzl S	Paper No. 15: COMPARISON OF LIQUEFACTION MITIGATION OPTIONS: A CHRISTCHURCH CASE Mahoney D, Kupec J		
16:15 – 16:30	Paper No. 4: SEISMIC UPGRADE OF WELLINGTON CITY COUNCIL'S NEWTOWN PARK FLATS Cattanach A, Palmer S	Paper No. 9: PROBABILISTIC SEISMIC INDOOR INJURY ESTIMATION Yeow T, MacRae G, Dhakal R, Bradley B	Paper No. 13: SOIL PROFILE CHARACTERISATION OF CHRISTCHURCH STRONG MOTION STATIONS Wotherspoon L, Orense R, Bradley B, Cox B, Wood C, Green R		
16:30 - 16:45	Paper No. 5: FERRYMEAD BRIDGE – FROM WIDENING AND SEISMIC UPGRADING TO REPLACEMENT, A CASUALTY OF THE CHRISTCHURCH EARTHQUAKE Kirkcaldie D, Brabhaharan P, Cowan M, Wang C, Hayes G	Paper No. 10: PROBABILISTIC SEISMIC HAZARD MODELLING: A REVIEW IN LIGHT OF RECENT EVENTS Stirling M	Paper No. 14: STRENGTH REDUCTION FACTORS FOR FOUNDATIONS AND EARTHQUAKE LOAD COMBINATIONS INCLUDING OVERSTRENGTH FACTORS Palmer S		

Friday 26 April 2013				
16:45 – 17:00		Break		
17:00 – 17:30	MFC Auditorium	NZSEE Annual General Meeting Chairperson: Assoc Prof Stefano Pampanin, President NZSEE; with Win Clark, NZSEE Executive Officer		
18:30 – Renouf Foyer 20:30		Welcome Reception and Stand up Buffet Host: Assoc Prof Stefano Pampanin, President NZSEE		

Saturday	Saturday 27 April 2013				
Time	Venue				
8:30 – 9:20	MFC Auditorium Session 7	Keynote Address: Earthquake Engineering in the Modern World Session Chair: Assoc Prof Rajesh Dhakal, University of Canterbury Presenter: Professor Sudhir Jain, President Elect IAEE, Director IIT Gandhinagar, India			
9:20 – 9:45	MFC Auditorium Session 8	Invited Presentation: It's Our Fault: Eight years of improved earthquake hazard and risk estimation in Wellington Session chair: Pathmanathan Brabhaharan, OPUS International Consultants Presenter: Russ Van Dissen, Earthquake Geologist, GNS Science			
10:10 Auditorium Session 9 Session chair: Robert Davey, OPUS International Consultants		Invited Presentation: Learning from the Canterbury Earthquakes to Strengthen National Building Performance Session chair: Robert Davey, OPUS International Consultants Presenter: Adrian Regnault, General Manager, Building System Performance, MBIE			

10:10 – 10:40	Renouf Foyer		Morning Tea	
10:40 – 12:25	Michael Fowler Centre Session 10	10A: The 2010-2011 Canterbury earthquake sequence: near-surface and building responses to extreme ground motions	10B: Structural performance techniques Renouf Foyer 1	10C: Seismic assessments: National to property portfolios Lionharbour View Room
	Micha	MFC Auditorium Session Chair: Caroline Holden	Session Chair: Clark Hyland	Session Chair: Luke Allen
10:40 – 10:55		Paper No. 16: CHARACTERISTICS OF VERTICAL GROUND MOTIONS IN THE CANTERBURY EARTHQUAKES Lee R, Bradley B, Franklin M	Paper No. 23: DESIGN SPECTRA FOR SEISMIC ISOLATION SYSTEMS IN CHRISTCHURCH, NEW ZEALAND Whittaker D, Jones L	Paper No. 30: PERFORMANCED BASED DESIGN OF BUILDINGS TO ASSESS AND MINIMIZE DAMAGE AND DOWNTIME Wetzel N, Mayes R, Tam K, Weaver B, Brown A, Pietra D
10:55 – 11:10		Paper No. 17: EMPIRICAL ANALYSIS OF NEAR-FAULT FORWARD-DIRECTIVITY EFFECTS IN THE 2010-11 CANTERBURY EARTHQUAKES Joshi V, Bradley B	Paper No. 24: LOW DAMAGE DESIGN – A CASE STUDY Gardiner D, Galloway B, Bull D	Paper No. 31: MOVING TOWARDS DISPLACEMENT-BASED ASSESSMENT IN AUSTRALIA Goldsworthy, H
11:10 – 11:25		Paper No. 18: SEPARATING SOURCE, PATH AND SITE INFLUENCES ON GROUND MOTION DURING THE CANTERBURY EARTHQUAKE SEQUENCE, USING SPECTRAL INVERSIONS Kaiser A, Oth A, Benites R	Paper No. 25: SEISMIC VISCOUS DAMPERS: A COST-EFFECTIVE SOLUTION WITH ENHANCED PERFORMANCE FOR BOTH EXISTING AND NEW CONSTRUCTION Gilani A, Miyamoto K	Paper No. 32: TOWARDS DISPLACEMENT-BASED SEISMIC ASSESSMENT IN EUROPE Sullivan T, Calvi G

11:25 – 11:40	Paper No. 19: ENGINEERING APPLICATION OF HIGH FREQUENCY GROUND MOTIONS IN CHRISTCHURCH Van Houtte C, Ktenidou O, Larkin T, Holden C	Paper No. 26: INNOVATIVE RESIDENTIAL FLOORING SOLUTION FOR THE TC3 FOUNDATION CATEGORY Cook D, Hambling J	Paper No. 33: A DISCUSSION ON THE DIFFERENCE BETWEEN NEW ZEALAND'S PHILOSOPHY FOR THE SEISMIC DESIGN OF NEW BUILDINGS AND SEISMIC ASSESSMENT OF EXISTING BUILDINGS, AND THE ISSUES THAT ARISE Au E, Lomax W, Walker A, Banks G, Haverland G
11:40 - 11:55	Paper No. 20: FLING-STEP EFFECT ON THE SEISMIC BEHAVIOUR OF HIGH-RISE RC BUILDINGS DURING THE CHRISTCHURCH EARTHQUAKE Hamidi Jamnani H, Karbassi A, Lestuzzi P	Paper No. 27: SLIDING SHEAR CAPACITIES OF THE ASYMMETRIC FRICTION CONNECTION Khoo H, Yeung S, Zhou H, Clifton C, MacRae G	Paper No. 34: EARTHQUAKE RESILIENCE THROUGH EARLY INTEGRATED URBAN PLANNING AND PRACTICE Brabhaharan P
11:55 – 12:10	Paper No. 21: LESSONS FROM THE PERFORMANCE OF HOUSES IN THE CANTERBURY EARTHQUAKE SEQUENCE OF 2010-11 Thomas G, Kim B, Beattie G, Shelton R, Sim D	Paper No. 28: SENSITIVITY OF POST- TENSIONED CONCRETE WALL RESPONSE TO MODELLING OF DAMPING O'Hagan, J, Twigden K, Ma Q	Paper No. 35: ACTING ON THE SEISMIC ASSESSMENT OF A LARGE PORTFOLIO Lindstrom D, Sharpe R

12:10 – 12:25		Paper No. 22: ANALYSIS OF THE SEISMIC RESPONSE OF THE CHRISTCHURCH WOMEN'S HOSPITAL Kuang A, Sridhar A, Gutschmidt S, Gavin H	Paper No. 29: EXPERIMENTAL AND ANALYTICAL STUDY OF REPLACEABLE BUCKLING-RESTRAINED FUSED-TYPE (BRF) MILD STEEL DISSIPATERS Sarti F, Smith T, Palermo A, Pampanin S, Bonardi D, Carradine D	Paper No. 36: CONSEQUENCE-BASED DECISION MAKING TOOLS TO SUPPORT NATURAL HAZARD RISK MITIGATION AND MANAGEMENT: EVIDENCES OF NEEDS FOLLOWING THE CANTERBURY (NZ) EARTHQUAKE SEQUENCE 2010-2011, AND INITIAL ACTIVITIES OF AN OPEN SOURCE SOFTWARE DEVELOPMENT CONSORTIUM Giovinazzi S, Wenzul H, Powel D, Sung Lee J		
12:25 – 13:30	Renouf Foyer	Lunch				
13:30 -		Either: A. Tours – with earthquake hazard risk and risk reduction focus. Register for all tours at Registration –				
17:30		1. Waterfront Walking Tour				
		2. City views and earthquake r	isk reduction;			
		3. Cuba and Courtney Heritage; OR				
		B. The Wellington City Council Ea	rthquake Resilience Expo - <i>Wellington Rock</i>	s Wellington Town Hall; OR		
		C. Free time				
18:30 – 19:00	Te Papa	Pre-dinner Drinks				
19:00 -	Te Papa	NZSEE 2013 Conference Dinner and Annual Award Presentations				
23:00		Host: Assoc Prof Stefano Pampanin, President NZSEE				
			Dress: smart casual, suits optional			

Sunday	28 April 2013				
Time	Venue				
8:30 – 9:20	MFC Auditorium Session 11	Keynote Address: "Retrofit of Heritage Buildings" Session Chair: Win Clark, NZSEE EO Presenter: Prof. Ing. Claudio Modena, University of Padova, Italy			
9:20 – 9:45	MFC Auditorium Session 12		Invited Presentation: Conserving our Built Heritage and the 'New Realities' Session Chair: Win Clark, NZSEE EO Presenter: Mr Bruce Chapman, Chief Executive of the New Zealand Historic Places Trust		
9:45 – 10:45	MFC Auditorium Session 13	Forum: Heritage Buildings: What are the New Realities? Session Chair: Bruce Chapman, Chief Executive of the New Zealand Historic Places Trust Forum Panelists: Alistair Cattanach, Alistair Aburn, Andre Lovatt, Iona Pannett, Lewis Holden, Bruce Petry			
10:45 – 11:15	Renouf Foyer	Morning Tea			
11:15 – 13:15	Michael Fowler Centre Session 14	14A: From Heritage to Economics MFC Auditorium Session Chair: Win Clark	14B: Soils, Structures, and Interactions Renouf Foyer 1 Session Chair: Liam Wotherspoon	14C: Structures and Practices Lionharbour View Room Session Chair: Les Megget	
11:15 – 11:30		Paper No. 37: HUDDART PARKER BUILDING - HERITAGE SEISMIC RETROFIT Thornton A, Vance N	Paper No. 45: SOIL STRUCTURE INTERACTION STARTS WITH ENGINEERS Oliver S, Hare J, Harwood N	Paper No. 53: USING HIGH-STRENGTH SELF-COMPACTING CONCRETE IN REINFORCED CONCRETE BEAM- COLUMN JOINTS Soleymani Ashtiani M, Dhakal R, Scott A	

Sunday 28 A	Sunday 28 April 2013					
11:30 - 11:45	Paper No. 38: FORMER MAGISTRATES' COURT BUILDING – STRENGTHENING AND PERFORMANCE Brown A, Hill J, Newall J, Kerrigan C, Mitchell M	Paper No. 46: SFSI IN SHALLOW FOUNDATION EARTHQUAKE RESPONSE Storie L, Pender M	Paper No. 54: SEISMIC ASSESSMENT AND STRENGTHENING OF THE AUCKLAND INTERNATIONAL AIRPORT CONTROL Kunkel E			
11:45 - 12:00	Paper No. 39: 15 STOUT STREET SEISMIC ASSESSMENT INCORPORATING IN-SITU STRUCTURAL STEEL BEAM/COLUMN TESTING Holden T	Paper No. 47: ROCKING CONTROLLED DESIGN OF SHALLOW FOUNDATIONS Pender M , Algie T, Storie, L, Salimath R	Paper No. 55: DYNAMIC FRICTION CO- EFFICIENT OF ASYMMETRICAL FRICTION CONNECTIONS (AFC) Herve R, Rodgers G, Chase G, Chanchi J, MacRae G			
12:00 – 12:15	Paper No. 40: SEISMIC ASSESSMENT AND IMPROVEMENT OF NAPIER'S ART DECO BUILDINGS Walsh K, Ingham J	Paper No. 48: DYNAMIC BEHAVIOUR OF FULLY PRECAST ROCKING BRIDGE Mazza R, Palermo A, Gutschmidt S	Paper No. 56: EXPERIMENTAL VERIFICATION OF SLIP-FRICTION CONNECTORS INTENDED FOR IMPLEMENTATION IN ROCKING TIMBER SHEAR WALLS Loo W, Kun C, Quenneville P, Chouw N			
12:15 – 12:30	Paper No. 41: WHAT DUCTILITY VALUE SHOULD BE USED WHEN ASSESSING UNREINFORCED MASONRY BUILDINGS? Allen C, Masia M, Derakhshan H, Dizhur E Ingham J, Griffith M	Paper No. 49: SPATIALLY-DISTRIBUTED GROUND MOTION INTENSITY MAPS: APPLICATION FOR SITE-SPECIFIC LIQUEFACTION EVALUATIONS IN CHRISTCHURCH Bradley B, Hughes M	Paper No. 57: PREVENTING SEISMIC DAMAGE TO FLOORS IN POST-TENSIONED TIMBER FRAME BUILDINGS Moroder D, Buchanan A, Pampanin S			

Sunday	28 April 2013			
12:30 – 12:45		Paper No. 42: CURRENT ADVANCES IN FRP ANCHORAGE TESTING Arnold S	Paper No. 50: EFFECT OF SOIL TYPE ON BUILDING SEISMIC DEMAND Loye A, Evans S, Dhakal R , Lin SL	Paper No. 58: ASSESSMENT OF COLLAPSE CAPACITY OF RC BUILDINGS BASED ON FIBER-ELEMENT MODELLING Ebrahimi Koopaee M, Dhakal R, Bradley B, MacRae G
12:45 – 13:00		Paper No. 43: POTENTIAL BENEFITS OF STRENGTHENING EARTHQUAKE-PRONE BUILDINGS Cousins J	Paper No. 51: EVALUATION OF NUMERICAL POUNDING MODELS WITH EXPERIMENTAL VALIDATION Khatiwada S, Chouw N, Butterworth J	Paper No. 59: THE SEISMIC DESIGN OF PRESSURE EQUIPMENT AND ITS SUPPORTS – IPENZ PRACTICE NOTE 19 Lindup G
13:00 – 13:15		Paper No. 44: CONSEQUENCES OF THE CANTERBURY EARTHQUAKE SEQUENCE FOR INSURANCE LOSS MODELLING Drayton M, Verdon C	Paper No. 52: IMPLEMENTATION OF LOW DAMAGE CONSTRUCTION: WHAT ARE THE CHALLENGES? Uma S, Dhakal R, MacRae G	Paper No. 60: A RECOVERY BOILER RECOVERED Reid J, Dyer P
13:15 – 14:15	Renouf Foyer		Lunch	
14:15 – 14:40	MFC Auditorium Session 15	Invited Presentation: SCIRT – A Disaster Rebuild Model for Infrastructure Session Chair: Assoc Prof Stefano Pampanin, President NZSEE Presenters: Rod Cameron, FIEAust CPEng(Aust) MIPENZ, SCIRT Value Manager and Peter Kinley, SCIRT Asset Investigation Dai Manager		nt NZSEE
14:40 – 15:00	MFC Auditorium Session 16	Conference Awards and Conference Closure Session Chair: Peter Wood, NZSEE 2013 Conference Convenor		