

ACMSM19 Programme Outline

Wednesday 29 November			
8.00-9.00	Registration	Central Lecture Block	
9.00-9.30	Conference Opening	C2, Central Lecture Block	
9.30-10.30	Session 1	Keynote Lectures C2, Central Lecture Block	
10.30-10.50	Morning tea	Central Lecture Block	
10.50-12.30	Session 2	Composite Structures and Materials	Room 011 Commerce
		Reinforced Prestressed Concrete Structures	C2, Central Lecture Block
		Dynamic Analysis of Structures	Room 012 Commerce
12.30-1.30	Lunch	Central Lecture Block	
1.30-3.30	Session 3	Geomechanics and Foundation Engineering	Room 011 Commerce
		Computational Mechanics	Room 012 Commerce
		Earthquake Engineering	C2, Central Lecture Block
3.30-3.50	Afternoon tea	Central Lecture Block	
3.50-5.30	Session 4	Structural Mechanics	C2, Central Lecture Block
		Structural Health Monitoring and Damage Identification	Room 011 Commerce
		Timber Engineering	Room 012 Commerce
5.30-6.30	Welcome Reception	Central Lecture foyer	

Thursday 30 November			
8.55-9.25	Session 5	Keynote Lecture C2, Central Lecture Block	
9.30-10.30	Session 6	Structural Mechanics	C2, Central Lecture Block
		Timber Engineering	Room 011 Commerce
		Shock and Impact Loading	Room 012 Commerce
10.30-10.50	Morning tea	Central Lecture Block	
10.50-12.30	Session 7	Fire Engineering	Room 011 Commerce
		Reinforced and Prestressed Concrete Structures	C2, Central Lecture Block
		Steel Structures	Room 012 Commerce
12.30-1.30	Lunch	Central Lecture Block	
1.30-3.30	Session 8	Composite Structures and Materials	Room 011 Commerce
		Computational Mechanics	Room 012 Commerce
		Dynamic Analysis of Structures	C2, Central Lecture Block
3.30-3.50	Afternoon tea	Central Lecture Block	
3.50-5.30	Session 9	Mechanics of Materials	Room 011 Commerce
		Reinforced and Prestressed Concrete Structures	C2, Central Lecture Block
		Shock and Impact Loading	Room 012 Commerce
7.00-9.30	Conference Dinner	Hotel Grand Chancellor	

Friday 1 December			
8.55-9.25	Session 10	Keynote Lecture C2, Central Lecture Block	
9.30-10.30	Session 11	Fire Engineering	Room 011 Commerce
		Structural Health Monitoring and Damage Identification	Room 012 Commerce
		Dynamic Analysis of Structures	C2, Central Lecture Block
10.30-10.50	Morning tea	Central Lecture Block	
10.50-12.30	Session 12	Mechanics of Materials	Room 011 Commerce
		Reinforced and Prestressed Concrete Structures	C2, Central Lecture Block
		Shock and Impact Loading	Room 012 Commerce
12.30-1.30	Lunch	Central Lecture Block	
1.30-3.30	Session 13	Composite Structures and Materials	Room 011 Commerce
		Computational Mechanics	Room 012 Commerce
		Earthquake Engineering	C2, Central Lecture Block
3.30-4.00	Closing ceremony and afternoon tea	C2 and foyer	

ACMSM19 Full Conference Programme

Wednesday 29 November			
8-9am	Registration		
9-9.30	Conference opening		
Session 1	Keynote papers: Session chair: Peter Moss ROOM C2		
9.30-10.00	The ductility of suspended reinforced concrete slabs containing Class L welded wire fabric <i>R.I.Gilbert, Z.I.Sakka & M.Curry</i>		
10.00-10.30	Assessment and prediction of remaining safe and serviceable life for corroding infrastructure <i>R.E.Melchers</i>		
10.30-10.50	Morning tea		
Session 2	Composite Structures and Materials Session chair: Mike Griffith ROOM 011	Reinforced and Prestressed Concrete Structures Session chair: Stefano Pampanin ROOM C2	Dynamic Analysis of Structures Session chair: Geoff Chase ROOM 012
10.50-11.10	Behaviour of composite beams stiffened by a longitudinal plate accounting for time effects <i>P.Ansourian & G.Ranzi</i>	The effect of controlled permeability formwork on the curing of concrete <i>A.A.Adam, T.C.K.Molyneaux, I.Patnaikuni & D.Law</i>	Influence of non-uniform abutment and pier movements on pounding responses of an isolated bridge structure <i>N.Chouw, M.Adam & H. Su</i>
11.10-11.30	Coupled geometric and viscoelastic nonlinearities in parabolic concrete-filled steel tubular arches <i>M.A. Bradford, R.I.Gilbert & T.Wang</i>	Load balancing of post-tensioned concrete beams with friction losses <i>M.A.Bradford, R.I.Gilbert & G.Brock</i>	Effects of interface material on the dynamic behaviour of rigid blocks <i>M.A.ElGawady, Q.Ma, J.Butterworth & J.M.Ingham</i>
11.30-11.50	Behaviour of the longitudinal shear connection in secondary composite beams incorporating trapezoidal steel decking <i>S.Ernst, R.Q.Bridge & M.Patrick</i>	Performance of damaged avoidance beam-column joint subassembly subjected to bi-directional earthquake excitation <i>B.A.Bradley, R.P.Dhakal, J.B.Mander & L.Li</i>	Semi-active management of structures subjected to high frequency ground excitation <i>C.M.Ewing, R.P.Dhakal, J.G. Chase & J.B. Mander</i>
11.50-12.10	Composite concrete slab and LVL flooring systems <i>M.Fragiacomo & B.L.Deam</i>	Ultimate load behaviour of concrete wall panels with varying opening configurations <i>C.Cooper, H.Guan & D.J.Lee</i>	Slab effects on building seismic performance <i>U.Gunasekaran, G.A.MacRae, R.Fenwick & A.J.Carr</i>
12.10-12.30	Eccentric loading of externally confined fibre reinforced concrete columns <i>M.N.S. Hadi</i>	Effect of iron rods and cans on the bearing capacity of the cementitious composites <i>A.T. Mohammed, A.A. Ibrahim & M.A. Elawa</i>	Prediction of dynamic response due to distributed structural modifications <i>H.Hang, K.Shankar & J.Lai</i>
12.30-1.30	Lunch		

Wednesday 29 November continued

Session 3	Geomechanics and Foundation Engineering <i>Session chair: Misko Cubrinovski</i> ROOM 011	Computational Mechanics <i>Session chair: Athol Carr</i> ROOM 012	Earthquake Engineering <i>Session chair: Nick Haritos</i> ROOM C2
1.30-1.50	Experimental investigation of open and closed ended piles in soft clay <i>D.A.Gallagher & K.G.Gavin</i>	Longitudinal and transverse partial interaction analysis of composite beams accounting for time effects and shear-lag effects <i>P.Ansourian, G.Ranzi, F.Gara & G.Leoni</i>	Dependency of building fragility to source mechanisms of records selected for incremental dynamic analysis <i>B.A.Bradley, R.P.Dhakal & J.B.Mander</i>
1.50-2.10	Investigation of the effect of critical depth on the shaft resistance of closed ended piles in clay <i>D.A.Gallagher & K.G.Gavin</i>	Transient analysis of dynamic soil structure interaction using the scaled boundary finite-element method <i>M.H.Bazyar & C.Song</i>	Multi storey Semi-Active Tuned Mass Damper building system <i>M.H.Chey, J.B.Mander, A.J.Carr & J.G.Chase</i>
2.10-2.30	Mechanical properties of quarry by-products <i>D.Ionescu</i>	Interfacial stresses of dissimilar thermorheologically anisotropic media <i>R.C.Chang, J.J. Chen & J.J.Shyr</i>	Seismic protection of a four storey one-fifth scale structure using semi active resetable tendon elements <i>R.F.Anaya, A.J.Carr, J.B.Mander & J.G.Chase</i>
2.30-2.50	Electrokinetic treatment of soft Australian clay <i>M.Stojanov & M.Nastev</i>	Thermal stresses in multi-layered media with straight or circular boundaries <i>C.K.Chao & F.M.Chen</i>	Behaviour of brick veneer walls under in-plane racking load <i>D.J. Heath, E.F.Gad, J.L. Wilson & L.Simeoni</i>
2.50-3.10	Dynamic interaction analysis of soil pile and structure due to harmonic waves <i>P.K.Wijaya</i>	Limited rotation CMM model for FE analysis of RC membranes <i>S.J.Foster</i>	Seismic strengthening of low strength concrete columns by external confinement using prefabricated SFRC panels <i>A.Ilki, D.Akgun, R.O.Goray, C.Demir & N.Kumbasar</i>
3.10-3.50	Analysis and design of pile-prestressed anchor supporting structure <i>Y-P. Zhu & X-L.Wang</i>	The analysis of skew plates with two opposite simply supported edges <i>B.W. Golley & J.Petrolito</i>	The dynamic out-of-plane behaviour of unreinforced masonry walls <i>E.Lumantarna, N.T.K. Lam, J.Wilson, M.C. Griffith & J.Vaculik</i>
3.30-3.50	Afternoon tea		
Session 4	Structural Mechanics <i>Session chair: Faris Albermani</i> ROOM C2	Structural Health Monitoring and Damage Identification <i>Session chair: Rob Melchers</i> ROOM 011	Timber Engineering <i>Session chair: Massimo Fragiaco</i> ROOM 012
3.50-4.10	Buckling of thin rectangular plates by shearing force <i>K.Abe, A.Terao, Y.Nakahara, K.Miura & T.Nishimura</i>	Analysis of seismic damage using time series models and Artificial Neural Networks <i>O.R.de Lautour & P.Omenzetter</i>	Damage evaluation of a timber beam using a modal-based method <i>F.C.Choi, J.Li, B.Samali & K.Crews</i>
4.10-4.30	Simulation of crack interaction in a concrete beam <i>T.T.Bui & M.M.Attard</i>	Determining the seismic transfer function infimum for a structural design <i>C.E.Hann, J.G.Chase & W-H. Wu</i>	Defining appropriate limit states for design of timber connections in Australia and New Zealand <i>K.Crews</i>
4.30-4.50	Flexural torsion in a thin rectangular bar <i>D.H.Clyde</i>	Damage database for residential structures <i>D.J.Heath, J.Corvetti, E.F.Gad, J.L.Wilson & F.Hodges</i>	Accessible and reliable design of stressed-skin panels – an Australian perspective <i>C.Gerber, K.Crews & C.Sigris</i>
4.50-5.10	An explicit finite element method for the analysis of masonry shear walls containing reinforcement <i>M.Dhanasekar & W.Haider</i>	Modal-based damage identification methods for plate-like structures <i>J.Li, F.C.Choi & B.Samali</i>	Screw and nail-gluing techniques for wood composite structures <i>C.Gerber, K.Crews & C.Sigris</i>
5.10-5.30	An inverse approach for the evaluation of plastic constitutive parameters from structural response <i>M.Dhanasekar & S.Jia</i>	Multi-chemo physical approach to life-cycle assessment of structural concrete <i>K.Maekawa, E.Gebreyouhannes & N.Chijiwa</i>	Development of composite elements sourced from home-grown timber for use in domestic structures <i>J.R.Gilfillan & S.G.Gilbert</i>
5.30-6.30	Welcome Reception, Central Lecture foyer		

Thursday 30 November			
Session 5	Session chair: Rajesh Dhakal ROOM C2		
8.55-9.25	Keynote paper: Upgrading of transmission towers using tension bracing diaphragm <i>S.Kitipornchai & F.Albermani</i>		
Session 6	Structural Mechanics Session chair: Brian Uy ROOM C2	Timber Engineering Session chair: Keith Crews ROOM 011	Shock and Impact Loading Session chair: Hao Hong ROOM 012
9.30-9.50	Verifications of shear strength of masonry walls retrofitted using FRP <i>M.A.ElGawady</i>	A cost effective approach for integrity assessment of timber bridges <i>J.Li, B.Samali & K.Crews</i>	Simple model for overturning and damage <i>H.A.Al Abadi, N.T.K.Lam & E.F.Gad</i>
9.50-10.10	Variational formulations in nonlinear frame analysis including shear deformation <i>J.Petrolito & K.A.Legge</i>	Quasi-static cyclic tests on seismic-resistant beam-to-column and column-to-foundation subassemblies using Laminated Veneer Lumber (LVL) <i>A.Palermo, S.Pampanin, M.Fragiacomo, A.Buchanan, B.L.Deam & L.Pasticier</i>	Response of light-framed clad walls to blast vibrations <i>J.Corvetti, E.F.Gad & J.L.Wilson</i>
10.10-10.30	Concrete stresses and strengths for gravity loading in a Roman theatre <i>C.M.Zhu & H.M.Goldsworthy</i>	Mechanical properties and behaviour of <i>Falcataria</i> -Rubber Wood LVL <i>J.A.Tjondro & M.Hadi</i>	Modelling localised response of steel fibre reinforced ultra high-strength concrete panels under high velocity impact <i>A.Gupta, P.Mendis, T.Ngo & M.Rebentrost</i>
10.30-10.50	Morning tea		
Session 7	Fire Engineering Session chair: Roger Plank ROOM 011	Reinforced and Prestressed Concrete Structures Session chair: Ian Gilbert ROOM C2	Steel Structures Session chair: Greg MacRae ROOM 012
10.50-11.10	A component-based approach for modelling the effect of fire on steel joints <i>F.Block, I.W.Burgess, J.B.Davison & R.J.Plank</i>	Polymer fibre reinforced normal and high strength concrete beams in shear <i>S.Fragomeni</i>	Yielding shear panel device for passive energy dissipation <i>R.W.K.Chan, F.Albermani & M.S.Williams</i>
11.10-11.30	Fire performance of steel portal frame buildings <i>M.W.Bong, A.H.Buchanan, R.P.Dhakal & P.J.Moss</i>	Prediction of punching shear failure behaviour of slab-edge column connections with varying size and location of openings <i>V.Garda, H.Guan & Y.C.Loo</i>	Basic behaviour of round press-joints used in an ultra long-spanning hybrid steel deck <i>M.Glasle & R.Q.Bridge</i>
11.30-11.50	Simple method for modelling hollow core concrete slabs under fire <i>J.Chang, A.H.Buchanan, R.P.Dhakal & P.J.Moss</i>	Tension stiffening in lightly reinforced concrete beams or slabs containing either steel or FRP reinforcement <i>R.I.Gilbert</i>	The effect of diffusible hydrogen on tensile properties of high strength steel bead on plate weldments <i>R.Holdstock, D.Nolan & Z.Sterjovski</i>
11.50-12.10	Fire resistance of connections in laminated veneer lumber (LVL) <i>P.J.Moss, A.H.Buchanan, J.Lau & T.Chuo</i>	Behaviour of R/C beam confined with FRP cylinder <i>T.Hara & S.Ishida</i>	Experimental study of high strength steel beams subject to local buckling effects <i>R.B.Tans & M.Mahendran</i>
12.10-12.30	The behaviour of multi-bay, two-way reinforced concrete slabs in fire <i>P.J.Moss, R.P.Dhakal, A.H.Buchanan & G.Wang</i>	Torsional resistance of high-strength concrete beams <i>T.Hossain, P.Mendis, T.Aravinthan & G.Baker</i>	Effectiveness of a common leg reinforcing method used for strengthening existing transmission towers <i>C.Tongkasame, J.E.Mills & Y.Zhuge</i>
12.30-1.30	Lunch		

Thursday 30 November continued			
Session 8	Composite Structures and Materials <i>Session chair: Mark Bradford</i> ROOM 011	Computational Mechanics <i>Session chair: Andrew Deeks</i> ROOM 012	Dynamic analysis of structures <i>Session chair: Emad Gad</i> ROOM C2
1.30-1.50	Experimental study of two-way FRP composite slab <i>D.Huang, G.M.Van Erp, T.J.Heldt & C.L.Cattell</i>	Boundary integral equations for the bending-stretching coupling analysis of composite laminates <i>C.Hwu & Y.C.Liang</i>	Effect of spatial ground motion at a canyon site on dynamic structural responses <i>H.Hao & N.Chouw</i>
1.50-2.10	Local facesheet buckling of a sandwich plate with a graded core <i>S.Kitipornchai, J.Yang & K.M.Liew</i>	General variational principle base shear correction method <i>Y.Liu & C.K.Soh</i>	Dynamic testing of the Sale Swing Bridge – before and after deck replacement works <i>N.Haritos & M.Hewitt</i>
2.10-2.30	Joining materials with glass fibre reinforced plastics – an experimental study <i>P.Kumar & R.Kumar</i>	Geometrically non-linear analysis of composite stiffened & sandwich structures using the finite element method <i>R.E.Ojeda, N.Lawrence, G.Thomas & B.G.Prusty</i>	Laboratory measurements of dynamic properties of rail pads subjected to incremental preloads <i>S.Kaewunruen & A.M.Remennikov</i>
2.30-2.50	Behaviour of T-stub connection to concrete-filled circular column with blind bolts and extensions <i>H. Yao, H.M. Goldsworthy, E.F. Gad</i>	Finite element analysis of cold-formed stud wall systems, lined on one side, under axial loads <i>M.M.Pham, Y.Zhuge & J.E.Mills</i>	A two-degree-of-freedom model for rain-wind-induced vibration of inclined cables <i>X.Ma, Z.Zhong & D.D.Li</i>
2.50-3.10	Shear connection in composite secondary beams with trapezoidal profiled fibre reinforced concrete slabs <i>I.Lius, M.A. Bradford, B.Uy, A.Filonov & Z.Vrceļ</i>	A probabilistic traffic load model for reliability assessments of bridges <i>S.G.Reid</i>	Simple, robust hybrid test systems for non-linear structural dynamic research and development <i>K.J.Mulligan, J.G.Chase, R.B.Elliott, B.Horn, G.Danton, B.L.Deam & J.B.Mander</i>
3.10-3.30	Behaviour and design of high performance steel (HPS) sections with concrete infill subjected to abnormal loading <i>B. Uy</i>		Semi-active Tuned Mass Damper systems <i>K.J.Mulligan, M.Miguelgorry, V.Novello, J.G.Chase, G.W.Rodgers, B.Horn, J.B.Mander, A.J.Carr & B.L.Deam</i>
3.30-3.50	Afternoon tea		
Session 9	Mechanics of Materials <i>Session chair: Priyan Mendis</i> ROOM 011	Reinforced and Prestressed Concrete Structures <i>Session chair: Koichi Maekawa</i> ROOM C2	Shock and Impact Loading <i>Session chair: Alex Remenikov</i> ROOM 012
3.50-4.10	Evaluation of Rapid Chloride Permeability Test results using systematic increase of pozzolanic materials <i>M.S.Ahmed & O.Kayali</i>	Finite element analysis of reinforced concrete walls with openings in one-and two-way action <i>D.J.Lee, H.Guan, J.H.Doh & S.Fragomeni</i>	Human-induced vibration of floor systems and stadia - some practical observations from field measurements <i>N. Haritos, E.F. Gad, J.L. Wilson</i>
4.10-4.30	Cracking tendency of concretes made with slag blended cements subjected to restrained shrinkage conditions <i>T.Aly & J.G.Sanjayan</i>	Fatigue behaviour of CFRP-repaired corroded RC beams <i>M.K.Y.Loo, S.J.Foster & S.T.Smith</i>	Numerical modelling of simply supported square tubular beams subjected to a uniform blast load <i>H. Jama, M. Bambach, R. Grzebieta, X.L. Zhao</i>
4.30-4.50	A model for compressive failure in unreinforced masonry <i>K.Chaimoon & M.M.Attard</i>	An investigation into the behaviour of reactive powder concrete columns <i>A.R.Malik & S.J.Foster</i>	Blast induced ground vibration limits on infrastructure <i>Z.A. Krezel, E.F. Gad, J.L. Wilson, A. Moore, A. Richards</i>
4.50-5.10	Dynamic properties of fibre reinforced and plain ultra high performance concrete <i>X.Gao, T.C.K.Molyneaux, I.Patnaikuni & S.M.S.Rahman</i>	Research on the property of concrete slabs with type II cold-rolled deformed bars <i>G.J.Nie, Z.Zhong & X.Ma</i>	The teaching of impact dynamics <i>N.T.K. Lam</i>
5.10-5.30	Tension and size effects of unreinforced concrete <i>C.J.Hartley & B.L.Deam</i>	The effect of corrosion on the capacity and behaviour of a 45 year-old post-tensioned concrete bridge beams <i>T.M. Pape, R.E. Melchers</i>	Analytical model of glazing panel subject to impact loading <i>R. Lumantarna, N.T.K. Lam, P. Mendis, E.F. Gad</i>
7.00-9.30	Conference dinner, Hotel Grand Chancellor		

Friday 1 December

Session 10	Session chair: Bruce Deam ROOM C2		
8.55-9.25	Keynote paper: Progress in advanced modeling of building structures exposed to fire <i>R.J. Plank</i>		
Session 11	Fire Engineering Session chair: Andy Buchanan ROOM 011	Structural Health Monitoring and Damage Identification Session chair: Piotr Omenzetter ROOM 012	Dynamic Analysis of Structures Session chair: John Mander ROOM C2
9.30-9.50	Cold-formed steel columns under simulated fire conditions <i>T. Ranawaka, M. Mahendran</i>	Real-time integral based structural health monitoring <i>I. Singh-Levett, J.G. Chase, C.E. Hann, B.L. Deam</i>	Elasto-plastic response of a bar by combination of bending and twisting moment <i>K. Osawa, T. Yamanaka, T. Nishimura, K. Miura</i>
9.50-10.10	Thermal bowing of steel members due to non-uniform temperature distribution <i>M.B. Wong, M.A. Bradford</i>	Towards a rule-based matrix for evaluating distress mechanisms in bridges <i>S. Venkatesan, S. Setunge, T.C.K. Molyneaux, R.J. Gravina, J. Fenwick</i>	The collapse behaviour of columns with low aspect-ratios <i>K. Rodsin, N.T.K. Lam, J.L. Wilson, H. Goldsworthy</i>
10.10-10.30	Effect of temperature prediction methods on fire resistance of steel members <i>M.B. Wong, K-H. Tan, Z.H. Wang</i>	Condition assessment of Balla Balla River Bridge in Western Australia <i>Y. Xia, H. Hao, A.J. Deeks</i>	Vibration of a simply supported functionally graded plate <i>Z. Zhong, T. Yu</i>
10.30-10.50	Morning tea		
Session 12	Mechanics of Materials Session chair: James MacKechnie ROOM 011	Reinforced and Prestressed Concrete Structures Session chair: Sam Fragomeni ROOM C2	Shock and Impact Loading Session chair: John Butterworth ROOM 012
10.50-11.10	Direct shear tests with gamma ray imaging on steel fibres in cementitious materials <i>G.G. Lee, S.J. Foster</i>	Shear strengthening of cracked RC beam using external post-tensioning <i>T.G. Suntharavadeivel, T. Aravinthan, S. Luther</i>	Transmitted shock on contact with rubber <i>M. Ramirez, H.A. Al Abadi, N.T.K. Lam, E.F. Gad</i>
11.10-11.30	Usage of sulphur and sulphur containing waste products in pavement materials technology <i>D.L. Rakhmankulov, A.H. Agliullin, V.A. Varenik, A.I. Gabitov, A.Y. Chuykin</i>	The influence of chloride induced corrosion cracks on the strength of reinforced concrete <i>D.L. Tang, T.C.K. Molyneaux, R.J. Gravina, L. Ward, D. Law</i>	Strength of concrete-filled stainless steel tubes under impact loading <i>K.J.R. Rasmussen, G. Ranzi</i>
11.30-11.50	Use of reclaimed asphalt pavement as an aggregate in asphalt concrete <i>B. Rosnawati, A. Shahir</i>	Effect of concrete tensile zones on the anchorage of bar reinforcement <i>A. Wheeler, R.Q. Bridge, W. Marsden</i>	Impact resistance of reinforced concrete columns: experimental studies and design considerations <i>A.M. Remennikov, S. Kaewunruen</i>
11.50-12.10	Mechanical properties of ultra low density glass micro-sphere filled syntactic foam composites <i>K. Shankar, D. Cave</i>	Modelling single span and continuous deep beams using strut-and-tie method <i>N. Zhang, K.H. Tan</i>	Impact response analysis of railway track structure using vehicle-track interaction modelling <i>Y.Q. Sun, M. Dhanasekar, C. Cole</i>
12.10-12.30	A review of permeable concrete and its application to pavements <i>Y. Zhuge</i>	Behaviour and strut and tie modelling of asymmetrically loaded deep beams <i>N. Zhang, K.H. Tan</i>	Heterogeneous model for concrete under blast loading <i>X.Q. Zhou, H. Hao</i>
12.30-1.30	Lunch		

Friday 1 December continued

Session 13	Composite Structures and Materials <i>Session chair: Y C Loo</i> ROOM 011	Computational Mechanics <i>Session chair: Bruce Golley</i> ROOM 012	Earthquake Engineering <i>Session chair: Peter Moss</i> ROOM C2
1.30-1.50	Comparison of seismic performance of hsc columns confined by FRP tubes and steel reinforcement <i>T. Ozbakkaloglu, M. Saatcioglu</i>	Finite element analysis for predicting lateral-torsional buckling modification factor <i>B. Suryatmono, Winata</i>	Partial capacity design, an alternative to the capacity design method <i>I. Muljati, B. Lumantarna, R.H. Saputra, A. Soegiarto</i>
1.50-2.10	The axial crushing of nanotubes <i>D. Ruan, G. Lu</i>	Combined limit and deformation analysis of strain softening structures <i>S. Tangaramvong, F. Tin-Loi</i>	High force-to-volume extrusion dampers and shock absorbers for civil infrastructure <i>G.W. Rodgers, J.G. Chase, J.B. Mander, N.C. Leach, C.S. Denmead, L. Cleeve, D. Heaton</i>
2.10-2.30	Full scale testing on composite connection using trapezoid web profiled steel section <i>M.M. Tahir, A. Saggaff, P.N. Shek, S. Mohamed</i>	Evaluation of RHT model for modelling concrete in numerical simulation <i>Z.G. Tu, Y. Lu</i>	Off-diagonal 2-4 damping technology using semi-active resetable devices <i>G.W. Rodgers, K.J. Mulligan, J.G. Chase, J.B. Mander, B.L. Deam, A.J. Carr</i>
2.30-2.50	Elasto-plastic post-buckling analysis of plates resting on tensionless foundations <i>X.Ma, J.Butterworth & C.Clifton</i>	Using fundamental solutions to recover the Green's functions in the scaled boundary finite element method <i>T.H. Vu, A.J. Deeks</i>	A rapid financial seismic risk assessment methodology with application to bridge piers <i>K. Solberg, J.B. Mander, R.P. Dhakal</i>
2.50-3.10	Bond tests on FRP retrofitted URM prisms <i>Q. Yang, C.R. Willis, R. Seracino, S.H. Xia, M.C. Griffith</i>	A <i>p</i> -adaptive scaled boundary finite element technique using projection-based interpolation and the steepest descent method <i>T.H. Vu, A.J. Deeks</i>	Performance of a damage protected highway bridge pier subjected to bi-directional earthquake attack <i>K. Solberg, N. Mashiko, R.P. Dhakal, J.B. Mander</i>
3.10-3.30	Strength of High Performance Ferrocement (HPF) composites under axial compression <i>P.R.Kumar & C.B.K.Rao</i>	Structural system identification of MR device-plane frame systems <i>J.H. Widjaja, B. Samali</i>	The effects of soil-pile foundation interaction on the inelastic seismic response of building structures <i>Widodo</i>
3.30-4.00	Closing ceremony and afternoon tea		