

## ASSCCA'03 CONFERENCE PROGRAM

**Sunday 22 June 2003 - Welcome Cocktail Party - Novotel Hotel, Darling Harbour (5.30pm)**

**Monday 23 June 2003**

**Session 1 - Opening and Plenary Session**

**Room:** Coles Theatre

0830	0910	Opening Address - John Nutt <i>Chairperson: G. Hancock</i>
0910	0945	Strength and stiffness of CFT semi-embedded type column base <i>Shosuke Morino</i> <i>Chairperson: M. Bradford</i>

		<b>Room: Coles Theatre</b>	<b>Room: Target Theatre</b>	<b>Room: Education Room 2</b>	<b>Room: Education Room 3</b>		
		<b>Session A2 Steel Connections</b> <i>Chairperson: T. Murray</i>	<b>Session B2 Concrete Filled Tube Columns</b> <i>Chairperson: R. Bergmann</i>	<b>Session C2 Concrete Materials</b> <i>Chairperson: R.I. Gilbert</i>	<b>Session D2 Shells</b> <i>Chairperson: P. Moss</i>		
0950	1010	Experimental and numerical evaluation of the deformation capacity of bolted end plate connections modelled by welded T-stubs <i>A.M. Girão Coelho, F. Bijlaard, L. Simões da Silva</i>	Research study on the structural performance of concrete filled steel tubular beam-columns <i>T. Fujimoto, T. Demizu, H. Ueda, H. Tanaka, K. Nishiuchi, T. Fukumoto</i>	Design of RC solids using stress analysis <i>S. Foster, P. Marti, N. Mojsilovic</i>	Imperfection sensitivity of medium length silos under wind load <i>M. Pircher</i>	0950	1010
1010	1030	Nonlinear response of bolted end-plate steel connections <i>A.G. Ghodrati, M. Jamalzadeh</i>	Locally unstable tubular columns with concrete in-fill <i>N.E. Shanmugam, B. Lakshmi, B. Uy,</i>	Mesomechanical model for the fracture process of concrete <i>J.G. Teng, W.C. Zhu, C.A. Tang</i>	Special Presentation <i>Y.K. Cheung</i>	1010	1030
1030	1050	Experimental study on the mechanical and clamping properties of F13T grade high strength bolts <i>J.H. Kim, H.S. Woo, S.M. Choi</i>	Interaction buckling of concrete filled columns using high strength steel <i>M. Mursi, B. Uy, M.A. Bradford</i>	Properties of adjusted density high-performance concrete <i>R. Sri Ravindrarajah, W. Jones</i>		1030	1050
<b>1050</b>	<b>1120</b>	<b>MORNING TEA</b>				<b>1050</b>	<b>1120</b>

Monday 23 June 2003 cont.....							
		<b>Session A3 Steel Connections</b> <i>Chairperson: J-G. Teng</i>	<b>Session B3 Concrete Filled Tubes - Novel</b> <i>Chairperson: Q.Q. Liang</i>	<b>Session C3 Concrete Slabs &amp; Beams</b> <i>Chairperson: Y-C. Loo</i>	<b>Session D3 Aluminium Stability</b> <i>Chairperson: Y.K. Cheung</i>		
1120	1140	European technical approvals for prefabricated tie rod systems <i>K. Kathage</i>	Structural behaviour of slender steel tubular columns infilled with fiber reinforced concrete <i>P.D. Manoharan, S.R. Gopal</i>	Bond test of lapped rebars and concrete: some preliminary results <i>H.Y. Leung, S. Kitipornchai, R.V. Balendran, W.C. Tang</i>	Buckling behaviour of thin-walled aluminium and stainless steel columns using generalised beam theory <i>R. Gonçalves, D. Camotim</i>	1120	1140
1140	1200	Behaviour of beam-to-column minor axis connections - a comprehensive investigation <i>C.W. Chin, S. Sarkar, K.S. Virdi</i>	Investigation into the behaviour of a novel steel section for concrete filled tubular columns under axial and cyclic loadings <i>K. Abedi, H. Afshin, A. Fredousi</i>	Parametric study on the computational behaviour of hollow beams designed using the direct design method "Numerical Factors" <i>A.S. Al Nuaimi</i>	A new buckling curve formulation for aluminium alloy elements <i>M.A. Gizejowski, A.M Barszcz, K. Nikonowic</i>	1140	1200
1200	1220	Behaviour and design of multi-row extended end-plate moment connections <i>E.A. Sumner, T.M. Murray</i>	Test and mechanics model for concrete-filled double skin steel tubular stub columns <i>Z.Tao, L.H. Han</i>	Effect of longitudinal steel on ductility of a R. C. Flexural member: a direct approach <i>D. Maity, Shweta</i>	Buckling experiments and FE simulations on complex aluminium extrusions <i>J. Mennink, F. Soetens, H.H. Snijder, B.W.E.M. van Hove</i>	1200	1220
1220	1240	Industrial steel racks: tests, design and codes <i>N. Baldassino, R. Zandonini</i>		Slab cracking control in composite decks by means of fractionated castings <i>L. Dezi, F. Gara, G. Leoni, A. Vitali</i>	Determination of strength characteristics of aluminum honeycomb material subjected to out-of-plane compression using finite element analysis <i>V. Aaron, A.H. Adibi-Sedeh, H. Nagarajan, B. Bahr</i>	1220	1240
1240	1300			Logarithmic decrement of damping in reinforced and partially prestressed concrete beams - new prediction formulas <i>S.H Chowdhury, Y.C. Loo</i>		1240	1300
<b>1300</b>	<b>1400</b>	<b>LUNCH</b>				<b>1300</b>	<b>1400</b>

<b>Session 4 - Keynote Presentation</b>								
<b>Room: Coles Theatre</b>								
1410	1445	Moment-rotation relationships of thin endplate connections in steel beams <i>Alan Kemp</i> <i>Chairperson: B. Uy</i>						

		<b>Room: Coles Theatre</b>	<b>Room: Target Theatre</b>	<b>Room: Education Room 2</b>	<b>Room: Education Room 3</b>		
		<b>Session A5 Steel Fatigue</b> <i>Chairperson: M.A. Gizejowski</i>		<b>Session C5 Concrete Columns</b> <i>Chairperson: S.J. Foster</i>	<b>Session D5 Seismic General</b> <i>Chairperson: S. Fragomeni</i>		
1450	1510	Fatigue life prediction based on acoustic emissions <i>T.M. Roberts, M. Talebzadeh,</i>		Effects of high strength concrete and reinforcement on column slenderness <i>A. Wheeler, R. Bridge, W. Marsden</i>	Experiments and analytical simulation of bare-type CFT column bases <i>T. Li, A. Kawano, L. Li, M. Itoh</i>	1450	1510
1510	1530	Load levels for high-cycle fatigue response in welded thin cold-formed SHS T-joints under in-plane bending <i>F.R. Mashiri, X.L. Zhao, P. Grundy</i>		Examination of cover spalling in high strength columns <i>S. Bae, O. Bayrak</i>	The effect of cyclic loading on the bond strength of concrete plugs embedded in tubular steel piles <i>A. Nezamian, R. Al-Mahaidi, P. Grundy</i>	1510	1530
1530	1550	Fatigue crack initiation and propagation in thin-walled CHS-to-SHS T-joints <i>L.W. Tong, X.L. Zhao, F.R. Mashiri, P. Grundy, H.Z. Zheng</i>		Behaviour of high-strength concrete columns subjected to blast loading <i>T.D. Ngo, P.A. Mendis, D. Teo, G. Kusuma</i>	Seismic retrofit for rectangular R/C columns by steel and CF jackets <i>K. Yoshimura, K. Kikuchi, M. Kuroki, J.H. Wang, T. Itai</i>	1530	1550
<b>1550</b>	<b>1620</b>	<b>AFTERNOON TEA</b>				<b>1550</b>	<b>1620</b>

**Monday 23 June 2003 cont.....**

		<b>Session A6 Steel Stability</b> <i>Chairperson: J. Lindner</i>	<b>Session B6 - Concrete Filled Tube Connections</b> <i>Chairperson: B. Uy</i>	<b>Session C6 Concrete Creep &amp; Shrinkage</b> <i>Chairperson: P. Mendis</i>	<b>Session D6 - Analysis Thin Walled Members</b> <i>Chairperson: T. Roberts</i>		
1620	1640	Lateral-torsional stability of prismatic and tapered steel beams: assessing the influence of pre-buckling deflections <i>A. Andrade, D. Camotim</i>	Behaviour of steel beam to circular CFT column connections <i>C.C. Chen, S.H. Lo</i>	Shrinkage cracking in restrained reinforced concrete members <i>S. Nejadi, R.I. Gilbert</i>	Torsional modelling of thin walled beams with open and closed cross sections <i>K. Saadé, B. Espion, G. Warzee</i>	1620	1640
1640	1700	Elastic stability of partially restrained short steel I-section members in flexure <i>M. Pircher, M. Gläsle, R.Q. Bridge</i>	Load-deformation relations of diaphragm-stiffened connections between H-shaped beams and circular CFT columns <i>K. Nakada, A. Kawano</i>	Time-dependent cracking and deformation in reinforced concrete structures - a numerical model <i>K.T. Chong, R.I. Gilbert, S.J. Foster</i>	Elastoplastic large deflection analysis of curved steel I-beams <i>M. Shugyo</i>	1640	1700
1700	1720	Tests of very high strength (VHS) circular steel tubes in bending <i>H. Jiao, X.L. Zhao</i>	A moment-rotation curve for CFT square columns and steel beams according to reliability analysis <i>E.J. Cha, S.M. Choi, Y. Kim</i>	Numerical simulation of performance of concrete structures as a function of service time <i>T. Shimomura, K. Maruyama</i>	Coupled bending - torsion natural frequencies of non symmetrical steel joists with taper <i>S. Talukdar</i>	1700	1720
1720	1740	Coupled local-lateral buckling of I-beams, a finite element model <i>C.P. Poon, H.R. Ronagh</i>	A moment-rotation curve for CFT square columns and steel beams <i>S.D. Hong, Y. Kim, S.M. Choi</i>		Lateral-torsional buckling analysis of a doubly symmetric thin-walled beam under axial force and bending moment <i>K.M. Hsiao, H.H. Chen, C.C. Lin</i>	1720	1740
1740	1800	A closed-form solution for the distortional buckling of I-beams <i>H.R. Ronagh, M.L.N. Ng, C.P. Poon</i>	Flexibility of beam to column connections in hollow construction <i>R.A. Prabhavathy, G.M.S. Knight, A. Rajaraman</i>		Stability behaviour of closed cross section thin walled prismatic members in the framework of generalized beam theory <i>P. Simão, L.S. da Silva</i>	1740	1800

**7.30pm - HARBOUR CRUISE**

**Tuesday 24 June 2003**

**Session 7 - Keynote Presentation**

**Room:** Coles Theatre

0910	0945	Seismic design of trussed girder systems <i>Roberto Leon</i> Chairperson: <i>S. Morino</i>
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		<b>Room: Coles Theatre</b>	<b>Room: Target Theatre</b>	<b>Room: Education Room 2</b>	<b>Room: Education Room 3</b>				
		<b>Session A8 Steel Impact &amp; Materials</b> Chairperson: <i>Y. Wang</i>	<b>Session B8 Composite - Partial Shear</b> Chairperson: <i>M. Patrick</i>	<b>Session C8 Concrete Fibre Reinforced</b> Chairperson: <i>D. Baweja</i>					
0950	1010	Impact resistance of structural hollow sections <i>N. Kostasiki, J. Packer</i>	Partial interaction behaviour of continuous composite steel-concrete beams <i>R. Seracino, C.T. Lee</i>	Non-conventional structural forms for concrete sludge digesters <i>A. Zingoni, D. Murambadoro</i>	0950	1010			
1010	1030	A 490 yield-stress steel for liquified-gas vessels <i>J.V. Tuma, D. Kmetec, R. Celin, S. Azman</i>	Evaluation of finite elements for the study of the ultimate behaviour of steel-concrete composite beams <i>A. Dall'Asta, A. Zona</i>	Behaviour of fibre reinforced RPC deep panels <i>Y.J.L Voo, S.J. Foster, R.I. Gilbert, N. Gowripalan</i>	1010	1030			
1030	1050	Prediction of fracture initiation in structural steel using tensile testing <i>L.C.A. Folch</i>	Effects of partial shear connections in semi-continuous composite beams <i>B. Uy, D.A. Nethercot</i>	Additional CFRP non-prestressed reinforcement in concrete structures <i>P. Stepánek, T. Vanura, L. Podolka, I. Svarickova</i>	1030	1050			
<b>1050</b>	<b>1120</b>	<b>MORNING TEA</b>				<b>1050</b>	<b>1120</b>		
		<b>Session A9 Steel Arches &amp; Design</b> Chairperson: <i>D. Camotim</i>	<b>Session B9 - Concrete Filled Tube Columns</b> Chairperson: <i>R. Seracino</i>	<b>Session C9 Seismic Frames</b> Chairperson: <i>T. Molyneaux</i>	<b>Session D9 Aluminium Structures</b> Chairperson: <i>B. Schafer</i>				
1120	1140	Wind-induced load capacity analysis of long-span steel arch bridges under construction <i>J. Cheng, R.C. Xiao, M. Xia, J.J. Jiang</i>	Strengthen behaviour of reinforcing bar in CFT structures <i>H.J. Wang, H. Wei, A. Hasegawa, Y. Shioi, Z.Q. Huang</i>	Rectangular reinforced concrete columns subjected to simulated seismic displacements <i>O. Bayrak, S.A. Sheikh</i>	Aluminium bridges, actual designs and prospects <i>F. Soetens, B.W.E.M. van Hove, J. Mennink</i>	1120	1140		
1140	1200	Spatial stability experiment on a semicircular steel arch <i>D.A. La Poutre, H.H. Snijder, J.C.D. Hoenderkamp</i>	The advantages of concrete filled steel tubes (CFST) applied in residential buildings <i>S.T. Zhong</i>	Nonlinear seismic response of reinforced concrete structures <i>I. Anam, Z.N. Shoma, A.R. Talukder</i>	Fatigue behaviour of crossing MIG and friction stir welds in aluminium 6082 T6 <i>D. Kostea, C. Radlbeck,</i>	1140	1200		
1200	1220	Optimal shape design of non-uniform stiffened steel beams with buckling and frequency constraints <i>S.A. Alghamdi, J. Leiva</i>	Equation of ultimate N-M interactive curve of circular CFT column <i>Y. Sun, K. Sakino</i>	Strength and deformation characteristics of slender SRC beam-columns frame <i>T. Fujinaga, I. Mitani, Y. Ohtani</i>	NDE and quality control of structural adhesive joints <i>D. Kostea, M. Michaloudaki</i>	1200	1220		
1220	1240	Consideration of initial imperfections for members subjected to axial compression and bending <i>J. Lindner, T. Glitsch, S. Heyde</i>	Eccentrically loaded high strength concrete-filled square steel tubes <i>S. Zhang, L. Guo, H. Tian</i>	Importance of composite steel concrete structures in earthquake resistant design - a critical review <i>N. Munirudrappa, N.S. Kumar</i>	Calibration study for the Eurocode ENV 1999 for aluminium design <i>D. Kostea, C. Radlbeck</i>	1220	1240		
1240	1300	Recent research in steel structures at The University of Sydney <i>T. Wilkinson</i>	Rapid development of CFST arch bridges in China <i>S. Zhou, S.Chen</i>	An advanced seismic protection technology: the damped cable system <i>S. Sorace, G. Terenzi</i>	Experimental analysis of aluminium T-stubs: tests under cyclic loading <i>G. De Matteis, G. Della Corte, F.M. Mazzolani</i>	1240	1300		
<b>1300</b>	<b>1400</b>	<b>LUNCH</b>				<b>1300</b>	<b>1400</b>		

**Tuesday 24 June 2003 cont.....**

**Session 10 - Keynote Presentation**

**Room:** Coles Theatre

1410	1445	Semi-rigid composite structural systems with slim floor beams: design analysis and erection phases <i>Riccardo Zandonini</i> Chairperson: <i>R. Leon</i>
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		<b>Room: Coles Theatre</b>	<b>Room: Target Theatre</b>	<b>Room: Education Room 2</b>	<b>Room: Education Room 3</b>		
		<b>Session A11</b> <b>Cold Formed Steel Racks</b> Chairperson: <i>J.E. Mills</i>	<b>Session B11</b> <b>Composite Decking and Panels</b> Chairperson: <i>J.Y.R. Liew</i>	<b>Session C11 Seismic Beam Columns &amp; Frames</b> Chairperson: <i>B. Young</i>	<b>Session D11</b> <b>Analysis Frames &amp; Stability</b> Chairperson: <i>J. Petrolito</i>		
1450	1510	Developments in the pallet program <i>R.G. Beale, M.H.R. Godley</i>	Double skin composite subject and impact loads <i>A. El-Badawy, R. Cairns, H. Wright</i>	Energy limit method for strength design of reinforced concrete beams <i>S. Marjanishvili</i>	The overall load-bearing capacity of tube-and-couple scaffolds <i>G.-Q. Li, H.-F. Ao</i>	1450	1510
1510	1530	Stability testing of sub-assemblages of high rise steel storage racks <i>E. Harris, G. Hancock</i>	Local and post-local buckling of steel-concrete composite panels under combined states of stresses <i>Q.Q. Liang, B. Uy, H.D. Wright, M.A. Bradford</i>	Seismic behaviour of steel encased reinforced concrete beam-columns <i>L. Li, J. Sakai, C. Matsui</i>	Advanced, second-order and modified first-order analyses for design of 2-bay portals <i>L.X. Fang, S.L. Chan</i>	1510	1530
1530	1550		Shear resisting mechanism and shear strength equation for full and open sandwich beams <i>M.A. Rahman, T. Ueda</i>	Elastic-plastic behaviour of multi storey frames with CFT columns <i>J. Sakai, T. Hitaka, C. Matsui</i>	Buckling load of unbraced rigid - frame with slender columns <i>I. Mitani, T. Katahira, Y. Ohtani</i>	1530	1550
<b>1550</b>	<b>1620</b>	<b>AFTERNOON TEA</b>				<b>1550</b>	<b>1620</b>
		<b>Session A12 - Cold Formed Steel Connections</b> Chairperson: <i>A. Remennikov</i>	<b>Session B12</b> <b>Retrofitting</b> Chairperson: <i>T.J. Hogan</i>	<b>Session C12</b> <b>Seismic Connection Modelling</b> Chairperson: <i>R. Hindi</i>	<b>Session D12</b> <b>Analysis Frames</b> Chairperson: <i>S.L. Chan</i>		
1620	1640	Design of washerless bolted connections in thin sheet steels <i>J. Zhang, C.A. Rogers</i>	Strengthening steel sections using CFRP laminates <i>D. Lam, K.A. Clark</i>	Experimental behaviour of end plate minor-axis steel and composite joints under cyclic loading <i>L.C. Neves, L. Simões Da Silva, P.C.G. Da S. Vellasco</i>	The influence of column base connections on the stability of slender frame structures <i>H.H. Lau, M.H.R. Godley, R.G. Beale</i>	1620	1640
1640	1700	Finite element analysis of structural knee-joints for cold-formed portal frame <i>M.M. Pham, J.E. Mills, Y. Zhuge</i>	Flexural behaviour of reinforced concrete beams retrofitted using CFRP strips <i>E.Y. Sayed-Ahmed, N.G. Shrive, A.H. Riad</i>	Large scale tests on composite beam-to-column connections under cyclic loading <i>L. Calado, A. De Luca, E. Mele, R. Pucinotti</i>	Large deflection analysis of structures with continuous and discrete restraints <i>J. Petrolito, K.A. Legge</i>	1640	1700
1700	1720	Knee joints in portal frames constructed from thick cold-form channel members <i>J.E. Mills</i>	Experimental study on seismic retrofit for existing R/C building by using CHS bracing <i>K. Miyagawa, R. Kinoshita, T. Fujinaga, Y. Ohtani, I. Mitani</i>	Behaviour of bare type column base connection in steel reinforced concrete structures <i>K. Sadasue, D. Fujiwara, K. Minami</i>	Case studies of the structural response of a number of framed -tube high-rise buildings <i>S.S. Mahini, H.R. Ronagh</i>	1700	1720
1720	1740	Structural behaviour of self-piercing riveted connections in G300 and G550 thin sheet steels <i>S.R. Moss, M. Mahendran</i>	Ductility improvement mechanism of concrete columns by wrapping of FRP sheets <i>K. Maruyama, T. Shimomura, T. Shinbo, Y. Nakai</i>	Study on two types of joints of steel-concrete composite beam and reinforced concrete column <i>J. Weishan, M. Hongwei, H. Jiping, L. Ying, Y. Qingrong</i>	Reliability implications of advanced analysis in design of steel frames <i>S.G. Buonopane, B. Schafer, T. Igusa</i>	1720	1740
1740	1800	Deformation characteristics of lapped connections between cold-formed steel purlins of Z sections <i>K.F. Chung, H.C. Ho</i>			Non-linear behaviour of steel-concrete composite frames with partial shear connection <i>C. Faella, E. Martinelli, E. Nigro</i>	1740	1800

<b>Wednesday 25 June 2003</b>							
<b>Session 13 - Keynote Presentation</b>							
<b>Room: Coles Theatre</b>							
0910	0945	Influence of initial imperfections on the behaviour of lipped channel columns at high temperatures <i>Pentti Mäkeläinen</i> <i>Chairperson: R. Zandonini</i>					
		<b>Room: Coles Theatre</b>	<b>Room: Target Theatre</b>	<b>Room: Education Room 2</b>	<b>Room: Education Room 3</b>		
		<b>Session A14 - Cold Formed Steel Compression</b> <i>Chairperson: K.F. Chung</i>	<b>Session B14 Composite Frames &amp; Beams</b> <i>Chairperson: G.D. Goode</i>	<b>Session C14 Seismic Connections</b> <i>Chairperson: P. Grundy</i>	<b>Session D14 Vibrations / Design / Plates</b> <i>Chairperson: M. Pircher</i>		
0950	1010	Design of cold-formed steel channel columns with complex stiffeners using direct strength method <i>J. Yan, B. Young</i>	Experimental behaviour of composite beams under hogging bending <i>H.Y. Loh, B. Uy, M. Bradford</i>	Cyclic analysis of PR steel frames with composite reinforced concrete infill walls <i>G.A. Rassati, J.F. Hajjar, A.E. Schultz, C.K. Shield</i>	Office floor vibration control using a TMD <i>A.J. Baxter, T. Murray</i>	0950	1010
1010	1030	Tests of cold-formed steel plain angle columns <i>B. Young</i>	Modelling of semi-rigid composite joints <i>H. Wright, Y. Wang, R. Cairns</i>	Influence of partially-restrained connections on the overall seismic behaviour of steel-concrete composite frames. A mechanical modelling approach. <i>I. Clemente, S. Noè, G.A. Rassati</i>	Structural design of Sydney's tallest residential building <i>O. Martin, K. Kayvani, L. Marengo</i>	1010	1030
1030	1050	Compression tests of cold-reduced high strength steel channel columns failing in the distortional mode <i>D. Yang, G.J. Hancock</i>	Systemic improvements to structural steel deckings <i>M. Patrick, R. Grey</i>	Seismic performance of cold-formed steel framed houses with wall-stud shear walls <i>L.A. Fulop, D. Dubina</i>	Exact solutions for vibration of stepped circular Mindlin plates <i>L. Zhang, Y. Xiang</i>	1030	1050
<b>1050</b>	<b>1120</b>	<b>MORNING TEA</b>				<b>1050</b>	<b>1120</b>
		<b>Session A15 - Cold Formed Steel Design &amp; Analysis</b> <i>Chairperson: L. Simoes da Silva</i>	<b>Session B15 - Composite Connections, Columns &amp; Decks</b> <i>Chairperson: T.J. Wilkinson</i>	<b>Session C15 - Seismic Steel Frames &amp; Panels</b> <i>Chairperson: A. Breunese</i>	<b>Session D15 Fire Frames</b> <i>Chairperson: L. Teh</i>		
1120	1140	GBT post-buckling analysis of cold-formed steel members <i>N. Silvestre, D. Camotim</i>	Built-up columns encased in concrete <i>R. Venugopal, N.E. Shanmugam, J.Y.R. Liew</i>	Seismic behaviour and design procedures for steel V-braced frames <i>A.M. Remennikov, W.R. Walpole</i>	Fire design of multi-storey steel-framed buildings considering realistic natural fires <i>J. Zehfuß, D. Hosser</i>	1120	1140
1140	1200	Interactive buckling of thin-walled cold-formed members <i>D. Dubina, I.F. Szabo, V. Ungureanu</i>	Testing elements of moment resisting connections for composite frames <i>A.P. Gardner, H.M. Goldsworthy</i>	Probabilistic displacement based seismic design of SDOF system <i>G.Jiong, L. Yong, H. Hong</i>	Scenarios based design of structures exposed to accidental fires <i>J.Y.R. Liew</i>	1140	1200
1200	1220	Finite element predictions of residual stresses in cold-formed sections <i>W.M. Quach, J.G. Teng, K.F. Chung</i>	Ultimate shear strength of perforated rib shear connector <i>K. Fujii, H. Iwasaki, N. Fujimura</i>	Seismic torsional response of single-storey steel structures with flexible roof diaphragms <i>R. Tremblay, C.A. Rogers, C. Nedisan</i>	A new calculation method for lateral torsional buckling of steel beams with non-uniform temperature distributions in fire <i>Y.Z. Yin, Y.C. Wang</i>	1200	1220
1220	1240	Advances in direct strength design of thin-walled members <i>B.W. Schafer</i>	Web-side-plate steel and composite framing connections <i>M. Patrick, P.A. Berry, A.T. Wheeler</i>	Cyclic behaviour of buckling-restrained brace members – numerical study and experiment <i>T. Usami, A. Kasai, M. Kato</i>	Performance of unprotected steel and composite steel frames exposed to fire <i>P. Moss, A. Buchanan, C. Wastney</i>	1220	1240
1240	1300	New design provisions for sections containing unstiffened elements with stress gradient <i>M.R. Bambach, K.J.R. Rasmussen</i>	Moment-rotation behaviour of a re-entrant decking of high strength steel: Experiment and nonlinear finite element analysis <i>A.M. Akhand, W.H.W. Badaruzzaman, A.K. Ariffin</i>	Damage analysis of reinforced concrete panels under cyclic shear <i>R.A. Hindi, M.Y. Mansour</i>	Multi-storey steel framed buildings with composite slab flooring: finite element modelling of fire behaviour <i>A. Breunese, L. Twilt, J.H.H. Fellingner</i>	1240	1300
<b>1300</b>	<b>1400</b>	<b>LUNCH</b>				<b>1300</b>	<b>1400</b>

**Wednesday 25 June 2003 cont.....**

**Session 16 – Keynote Presentation**

**Room:** Coles Theatre

1410	1445	Analysis and design of cable supported roof structures <i>Kourosh Kayvani</i> Chairperson: <i>T. Wilkinson</i>	
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		<b>Session A17 Cold Formed Steel</b> Chairperson: <i>A. Wheeler</i>	<b>Session B17 Composite Girders &amp; Bridges</b> Chairperson: <i>R. Cairns</i>	<b>Session C17 Seismic Steel Connections</b> Chairperson: <i>D. Lam</i>	<b>Session D17 Fire General</b> Chairperson: <i>R. Beale</i>		
1450	1510	Analysis and testing of cold-formed steel beams <i>C. Yu, B. Schafer</i>	Girders with corrugated steel webs: buckling modes and numerical modelling <i>E.Y. Sayed-Ahmed</i>	Brittle fracture of beam-column welded joints containing defects <i>K. Dale, Y. Kurobane, K. Azuma, T. Iwashita</i>	Numerical modelling of the behaviour of bare-steel and composite flexible end-plate connections at elevated temperature <i>K.S. Al-Jabri</i>	1450	1510
1510	1530	Design of cold-formed steel bearing stiffeners <i>S.R. Fox, R.M. Schuster</i>	Fatigue durability of composite girder bridge with channel-shaped precast PC deck slabs <i>S. Hino, K. Yamaguchi, T. Ohta, T. Tsutsumi</i>	Reliability of full-strength end-plate connections: design criteria and Monte Carlo simulation <i>V. Piluso, G. Rizzano</i>	Performance of normal and high-strength reinforced concrete walls in fire <i>R. Ongah, P. Mendis, J.G. Sanjayan</i>	1510	1530
1530	1550	Design of profiled sandwich panels subject to local buckling effects <i>N. Pokharel, M. Mahendran</i>	Advances in prestressed concrete bridges with external prestressing <i>T. Aravinthan, Y. Hamada, K. Uehira</i>	Experimental study on the cyclic behaviour of bolted end-plate connections <i>L. Calado, L. Dunai, N. Kovács</i>	Behaviour and design of cold-formed thin-walled steel stud wall panels exposed to fire on one side <i>M. Feng, Y.C. Wang, J.M. Davies</i>	1530	1550

**1550 1620 AFTERNOON TEA 1550 1620**

		<b>Session B18 Composite Bridges</b> Chairperson: <i>A.R. Kemp</i>	<b>Session C18 Seismic Walls And Panels</b> Chairperson: <i>T. Aravinthan</i>		
1620	1640	Experimental study on open box bridges with precast decks <i>C.S. Shim, H.K. Ryu, S.P. Chang, C.H. Chung</i>	Seismic performance of multi-storey frames incorporating composite shear walls <i>T. Hitaka, K. Sakino, T. Yamaguchi</i>	1620	1640
1640	1700	A study on global and local behaviour in continuous composite girder bridge and its analysis by multi-scale methods <i>A. Nakajima, I. Saiki, T. Asai</i>	Seismic behaviour of composite shear walls failed in overturning collapse mechanism <i>K. Sakino, T. Hitaka, T. Takahashi</i>	1640	1700
1700	1720	Analysis of variability of the long-term deflection of a new kind of composite bridge deck <i>S. Staquet, H. Detandt, B. Espion,</i>	The cyclic response of reinforced concrete shear walls <i>R. Sturt, M. Willford, T.C.K. Molyneaux, A. Mole, L. Kawidjaja</i>	1700	1720

**7.00pm - CONFERENCE DINNER**

\*Please note: this program is subject to change