

10th Australasian Masonry Conference

(Program subject to change)



SUNDAY, 11 FEBRUARY 2018

18:00-21:00	10AMC Welcome Mortex Mixer Cocktail Reception (ABODE Bistro Bar) Sponsored by Austral Masonry
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MONDAY, 12 FEBRUARY 2018

08:00-09:00	Registration Open / Tea and Coffee	
09:00-09:50	Conference Opening and Plenary Session (Blackwattle Rooms) How to Build the Impossible in Brick Cathy Inglis (Brickworks)	
09:50-10:20	Morning Tea / Coffee	
10:20-11:00	Tribeca Townhouse: Case Study in Twisted Brick Jeremy Edmiston (SYSTEMarchitects)	
11:00-11:40	Panel Discussion	
11:40-12:40	Buffet Lunch (Barkers Restaurant)	
12:40-14:50	<u>Session 1A: Seismic Behaviour and Assessment 1</u> SEISMIC RISK ASSESSMENT OF NEW ZEALAND URM CHURCH INVENTORY S.R. Abeling, S. Vallis, T. Goded, S. Giovinazzi and J.M. Ingham PERFORMANCE BASED ASSESSMENT OF CULTURAL HERITAGE BUILDINGS IN CENTRAL EUROPE - CASE STUDIES FROM SLOVENIA V. Z. Bosiljkov	<u>Session 1B: Façades, Cavity and Veneer Walls</u> MID-CENTURY MODERNIST INFLUENCES ON CONTEMPORARY DESIGN: NEW MASONRY BREEZE WALLS & FLOORING Presentation by: Sam Klopper, Klopper & Davis Architects HIT AND MISS BRICK SCREENS – THICK BRICK AUSTRALIA FACT SHEET Presentation by: Mohammed Amjed, Think Brick Australia

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	<p>MASONRY BUILDING DESIGN FOR EARTHQUAKE-AFFECTED REMOTE AREAS OF NEPAL J. K. Bothara, D. Dizhur and J. Ingham</p> <p>SEISMIC ASSESSMENT MODEL OF MASONRY INFILL WITH OPENINGS AND EXPERIMENTAL VERIFICATION T.C. Chiou, Y.H. Tu, Y.S. Tu, L.L. Chung and C.T. Huang</p> <p>DESIGN OF IN-PLANE UNREINFORCED MASONRY WALL TESTING PROGRAM AND PRELIMINARY FINITE ELEMENT ANALYSIS (FEA) M.K. Howlader, M.J. Masia, M.C. Griffith and J.W. Jordan</p> <p>MASONRY CLADDING DESIGN CONCEPTS FOR ENHANCED PERFORMANCE DURING EARTHQUAKES S. Dill and J. Hochwalt</p>	<p>STACK BONDED WALLS – THICK BRICK AUSTRALIA FACT SHEET Presentation by: Pabita Basnet & Andre Kisso, Think Brick Australia</p> <p>SHELF ANGLE DESIGN FOR ANCHORED MASONRY VENEER W. Mark McGinley</p> <p>A FIELD INVESTIGATION INTO LONG-TERM CORROSION OF METAL WALL TIES IN MASONRY VENEER CONSTRUCTION B. Jardim do Nascimento, I.A. Chaves, M.J. Masia and R.E. Melchers</p> <p>MECHANICAL CHARACTERIZATION OF WALL TIE CONNECTION IN CAVITY WALLS G. Skroumpelou, F. Messali, R. Esposito and J.G. Rots</p>
14:50-15:20	Afternoon Tea / Coffee	
15:10-17:40	Walking Tour to Dr Chau Chak Wing Building at University of Technology, Sydney <i>(or free afternoon)</i>	
18:30-22:30	Harbour Cruise Dinner departing from Darling Harbour	

TUESDAY, 13 FEBRUARY 2018

8:00-9:00	Registration Open / Tea and Coffee	
8:40-9:20	Plenary Session (Blackwattle Rooms) Securing of Unreinforced Masonry Parapets and Façades – From Fundamental Research to National Policy	

10th Australasian Masonry Conference

(Program subject to change)



	Jason Ingham (University of Auckland)	
9:20-9:40	Reinforced Masonry Under Compression Jake Ring (CMAA)	
9:40-10:10	Morning Tea / Coffee	
10:10-12:20	<p><u>Session 2A: Seismic Behaviour and Assessment 2</u></p> <p>CRITICAL REVIEW OF NUMERICAL MODELLING TECHNIQUES FOR SEISMIC RESPONSE OF COMPLEX URM BUILDINGS K. Ip, D. Dizhur, L. Sorrentino; M.J. Masia, M.C. Griffith and J.M. Ingham</p> <p>PEAK FLOOR ACCELERATIONS IN UNREINFORCED MASONRY BUILDINGS WITH FLEXIBLE DIAPHRAGMS H. Derakhshan, Y. Nakamura, H. Goldsworthy, K.Q. Walsh, J.M. Ingham and M.C. Griffith</p> <p>DAMAGE QUANTIFICATION IN PLASTERED UNREINFORCED MASONRY WALLS USING DIGITAL IMAGE CORRELATION M. Didier, G. Abbiati, F. Hefti, M. Broccardo and B. Stojadinovic</p> <p>INFLUENCE OF THE BEHAVIOUR OF CALCIUM SILICATE BRICK AND ELEMENT MASONRY ON THE LATERAL CAPACITY OF STRUCTURES R. Esposito, S. Jafari, G.J.P. Ravenshorst, H.R. Schipper and J.G. Rots</p> <p>USING THE MACRO-ELEMENT METHOD TO SEISMICALLY ASSESS COMPLEX URM BUILDINGS F. Gálvez, S. Abeling, K. Ip, S. Giovinazzi, D. Dizhur and J. Ingham</p> <p>BASIC STUDY FOR SAFE MASONRY CONSTRUCTIONS AGAINST EARTHQUAKES IN DEVELOPING COUNTRIES-COMPARATIVE STUDY ON CEMENT MORTAR Tatsuo Narafu; Hisashi Sugiyama; Hiroshi Imai; Akihiko Tasaka</p>	<p><u>Session 2B: Masonry Materials and Systems</u></p> <p>CALALSIL™ POLYMERIC SILICATES – A NOVEL GEOPOLYMER CONCRETE FOR A SUSTAINABLE FUTURE L.S. Burgess-Dean</p> <p>COMPARISON OF CURING SYSTEMS FOR ZERO SLUMP CONCRETE MASONRY A. Reyes, A. Incera and M. Murillo</p> <p>WATER LOSS INFLUENCE ON LAYING MORTAR COMPRESSIVE STRENGTH A. L. Temp, A. S. Milani, M. J. Oliveira, A. Lübeck and G. Mohamad</p> <p>NEW ECO-FRIENDLY MASONRY UNITS FOR BETTER THERMAL AND ACOUSTIC INSULATION A.A. Gheni, M.A. ElGawady and J.J. Myers</p> <p>EFFICIENCY RATIO OF HOLLOW CLAY BLOCK MASONRY R.P. Portella, G. Mohamad, F.S. Fonseca, A. Lübeck, R.P.B. Schmidt and L.E. Modler</p>
12:20-13:20	Buffet Lunch (Barkers Restaurant)	

10th Australasian Masonry Conference

(Program subject to change)



<p>13:20-15:10</p>	<p><u>Session 3A: Energy Performance and Retrofitting and Strengthening 1</u></p> <p>RESEARCH ON THE THERMAL PERFORMANCE OF AUSTRALIAN HOUSING AT THE UNIVERSITY OF NEWCASTLE D. Alterman, A. W. Page and B. Moghtaderi</p> <p>THE USE OF COMPUTATIONAL FLUID DYNAMICS SIMULATION TO COMPARE THE THERMAL PERFORMANCE OF HOUSING MODULES INCORPORATING HEAVY OR LIGHTWEIGHT WALLING SYSTEMS C. Zhang, D. Alterman, A.W. Page and B. Moghtaderi</p> <p>NUMERICAL SIMULATION OF THE EFFECT OF SLAB-EDGE INSULATION FOR SLAB-ON-GROUND MASONRY HOUSING Z. Liu, D. Alterman, A. Page, B. Moghtaderi and D. Chen</p> <p>OPTIMIZATION OF THE SEISMIC PERFORMANCE OF CONTEMPORARY MASONRY CHIMNEY SYSTEMS V. Bosiljkov, D. Antolinc, G. Steinecker and S. Plaskan</p> <p>PULL-OUT TESTING OF NEAR SURFACE MOUNTED STEEL WIRE ROPE IN UNREINFORCED MASONRY N. A. Misnon, D. Dizhur, M. Giaretton and J. M. Ingham</p>	<p><u>Session 3B: Dry Stack Masonry Systems</u></p> <p>IN-PLANE TILT TESTS ON DRY STACK MASONRY WALLETTES N. Mojsilović and M. Petrović</p> <p>ENERGY DISSIPATION OF FRAMED SEMI INTERLOCKING MASONRY PANEL UNDER LARGE DISPLACEMENT M. A. Hossain, Y.Z. Totoev and M.J. Masia</p> <p>PSEUDO-STATIC TESTS OF MORTAR-LESS MASONRY JOINT WITH DIFFERENT INTERLOCKING SHAPES K. Lin, H.J. Liu and W. Hou</p> <p>NONLINEAR DYNAMIC RESPONSE OF DRY STACK SEMI-INTERLOCKING MASONRY WALL UNDER OUT-OF-PLANE LOAD H.J. Liu, K. Lin and D.X. Peng</p> <p>THE OUT-OF-PLANE CAPACITY OF SEMI-INTERLOCKING INFILL PANELS: EXPERIMENTAL INVESTIGATION O. Zarrin, Y.Z. Totoev and M.J. Masia</p>
<p>15:10-15:40 Afternoon Tea / Coffee</p>		
<p>15:40-17:30</p>	<p><u>Session 4A: Seismic Behaviour and Assessment 3</u></p> <p>UNSHAKEN: RETAINING ARCHITECTURAL QUALITIES OF HISTORIC URM CHURCHES AND CHURCH PRECINCTS WITHIN THE NEW ZEALAND SEISMIC RETROFIT PROCESS S. Vallis, S. Giovinazzi, S. Abeling and J. Ingham</p> <p>OUT-OF-PLANE RESPONSE OF AN INNOVATIVE MASONRY INFILL WITH SLIDING JOINTS SUBJECTED TO DYNAMIC TESTS ON SHAKING TABLE P. Morandi, R.R. Milanesi, C.F. Manzini and G. Magenes</p> <p>COMPARISON BETWEEN PREDICTED URM WALL OUT-OF-PLANE DISPLACEMENT-BASED PERFORMANCE AND IN SITU PROOF TEST RESULTS</p>	<p><u>Session 4B: Reinforced Masonry</u></p> <p>OUT OF PLANE BEHAVIOUR OF CONCRETE BLOCK MASONRY WALL WITH DIFFERENT BASE SUPPORT CONDITIONS A.C. Isfeld, M. Hagel, A.L. Müller and N.G. Shrive</p> <p>EFFECTS OF HORIZONTAL REINFORCEMENT DISTRIBUTION ON IN-PLANE PERFORMANCE AND POST-PEAK BEHAVIOUR OF MASONRY SHEAR WALLS O. Stathis, O. Fischer and S.L. Lissel</p> <p>A FINITE ELEMENT INVESTIGATION ON STRUCTURAL PERFORMANCE OF FULLY GROUTED REINFORCED MASONRY BUILDING</p>

10th Australasian Masonry Conference

(Program subject to change)



	<p>K.Q. Walsh, D.Y. Dizhur, I. Giongo, H. Derakhshan and J.M. Ingham</p> <p>AN IMPROVED MACROELEMENT MODEL FOR THE NONLINEAR ANALYSIS OF MASONRY BUILDINGS</p> <p>S. Bracchi, A. Galasco, A. Penna and G. Magenes</p> <p>FULL-SCALE OUT-OF-PLANE SHAKING TABLE TESTS OF URM WALLS IN TWO-WAY BENDING</p> <p>F. Graziotti, U. Tomassetti, L. Grottoli, A. Penna and G. Magenes</p>	<p>S. Noor-E-Khuda and M. Dhanasekar</p> <p>EXPERIMENTAL STUDIES ON THE EFFECT OF GROUT CONFINEMENT TO THE REINFORCING BARS IN MASONRY WALLS UNDER CONCENTRIC COMPRESSION</p> <p>M. Song and M. Dhanasekar</p> <p>ANALYSIS OF THE INFLUENCE OF HORIZONTAL REINFORCEMENT AND EFFECTIVE HEIGHT ON THE PEAK STRENGTH OF MASONRY SHEAR WALLS</p> <p>S. Rizaei and N.G. Shrive</p>
17:30-18:30	Free time	
18:30-22:30	Conference Dinner (Blackwattle Rooms)	

WEDNESDAY, 14 FEBRUARY 2018

8:00-9:00	Registration Open / Tea and Coffee	
8:40-9:20	Plenary Session (Blackwattle Rooms) Developments in the Design of Concrete Segmental Pavements Simon Beecham (University of South Australia)	
9:20-9:50	Morning Tea / Coffee	
9:50-12:00	<p><u>Paving Presentations</u></p> <p>PLACES WOMEN MAKE – PRESENTATION AND PANEL DISCUSSION</p> <p>Jane Jose, author of 'Places Women Make' & Bridget Smyth, City of Sydney</p>	<p><u>Session 5B: Retrofitting and Strengthening 2</u></p> <p>NUMERICAL AND EXPERIMENTAL STUDY ON UNREINFORCED MASONRY BUILDINGS WITH VARIOUS OPENING CONFIGURATIONS STRENGTHENED WITH STEEL BANDS</p> <p>T. Choudhury and H.B. Kaushik</p> <p>IN-SITU EARTHQUAKE TESTING AND SECURING OF DOMESTIC URM CHIMNEYS</p>

10th Australasian Masonry Conference

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	<p>A CASE STUDY ON INDUSTRIAL CONCRETE BLOCK PAVING IN NORTH QUEENSLAND Jet Foley, Adbri Masonry</p> <p>THE NEED FOR A HEAVY-DUTY MASONRY PAVEMENT STANDARD Anthony Davis, Davis Naismith & McGovern Pty Ltd</p> <p>PRESENTATION ON CMAA’S APPROVED INSTALLER PROGRAM Inleel William, Concrete Masonry Association of Australia</p>	<p>D. Dizhur, M. Giaretton, H. Derakhshan, J. Ingham and M. Griffith</p> <p>DYNAMIC TESTING OF MASONRY SHEAR WALLS STRENGTHENED WITH CORE-FILL RETROFITS A. Papadopoulou , O. Fischer and S.L. Lissel</p> <p>ENVIRONMENTAL EFFECT ON REINFORCED MASONRY WALLS STRENGTHENED WITH NSM AND CEMENTITIOUS ADHESIVE Z. Al-Jaberi, J.J. Myers and M. ElGawady</p> <p>MITIGATING IMPACT FAILURE OF MASONRY BOUNDARY WALLS USING AUXETIC COMPOSITES M. Asad, M. Dhanasekar, T. Zahra and D. Thambiratnam</p> <p>EXPERIMENTAL AND ANALYTICAL STUDY OF SEISMIC LOW-COST RETROFITTED MASONRY BUILDING S. Ahmad, R. A. Khan, S. Shamim and M. Asad</p>
12:00-13:00	Buffet Lunch (Barkers Restaurant)	
13:00-14:50	<p><u>Workshop Session</u></p> <p>CMAA’S ENGINEERING PAVEMENT DESIGN SOFTWARE – DESIGNPAVE Chaired by: Simon Beecham, University of South Australia</p>	<p><u>Session 6B: Analysis, Design and Design Codes</u></p> <p>COMMON SENSE APPROACH TO MASONRY QUALITY ASSURANCE J. Chrysler, K. Siggard and P. Samblanet</p> <p>STRUCTURAL BRICK MASONRY IN THE WESTERN UNITED STATES J. Chrysler, J. G. Tawresey and P. J. Samblanet</p> <p>DETERMINATION OF MODEL PARTIAL FACTOR FOR MASONRY UNREINFORCED SHEAR WALLS BASED ON ANNEX D OF EN-1990 H. Salehi and W. Jäger</p> <p>ANALYSIS OF THE VERTICAL LOAD DISTRIBUTION BETWEEN THE STRUCTURAL MASONRY WALLS IN A SMALL SCALE MODEL M.R.S. Correa, W.J. Silva and J.S. Camacho</p> <p>AS3700 MASONRY STRUCTURES CODE - A 2018 UPDATE A.W. Page</p>

10th Australasian Masonry Conference

(Program subject to change)



14:50-15:20	Afternoon Tea / Coffee	
15:20-17:00	<p><u>Workshop (continued)</u></p> <p>CMAA'S ENGINEERING PAVEMENT DESIGN SOFTWARE – DESIGNPAVE Chaired by: Simon Beecham, University of South Australia</p>	<p><u>Session 7B: Retrofitting and Strengthening 3</u></p> <p>SHOCK TABLE TEST ON MASONRY BUILDINGS STRENGTHENED USING WELDED WIRE MESH AND MICRO CONCRETE S. B. Kadam, Y. Singh and B. Li</p> <p>FLEXURAL BOND STRENGTH OF CLAY BLOCKS MASONRY PRISMS REINFORCED WITH CARBON FIBER (CFRP) G.F. Medeiros; R. Bordignon, G. Mohamad, A.B.S. Santos Neto, J.F. Machado, V.M. Tombezi</p> <p>BOND SLIP BEHAVIOUR OF DEEP MOUNTED CARBON FIBRE REINFORCED POLYMER STRIPS CONFINED WITH A DUCTILE ADHESIVE IN CLAY BRICK MASONRY Ö. S. Türkmen, S.N.M. Wijte, J.M. Ingham and A.T. Vermeltfoort</p> <p>HERITAGE HOTEL CASE STUDY: SEISMIC RETROFIT OF AN UNREINFORCED MASONRY BUILDING PRIOR TO THE CANTERBURY EARTHQUAKES N. A. Misnon, S. Abeling, J.Hare, R. Jafarzadeh, J. M. Ingham and D. Dizhur</p> <p>THE CHALLENGES OF DEVELOPING A BOND MODEL FOR FRP TO MASONRY JOINTS—A CLOSER LOOK AT EXISTING TEST RESULTS AND LIMITATIONS OF EXPERIMENTAL DESIGN J. Vaculik, P. Visintin and M.C. Griffith</p> <p><u>10AMC Close</u></p>