

14 August 2024, Wednesday

830	Registration		
Location : Ballroom 1			
Chairperson : Prof Xudong Qian			
900	Plenary Session Real-Time Early-Warning of Fire-Induced Collapse of Steel Trusses for Large-Span Buildings Prof Li Guoqiang		
930	Plenary Session Advanced Engineered Composites in Protective Structures Prof Vasant Matsagar		
1000	Tea Break		
	Location : Ballroom 1	Location : Spottiswoode	Location : Read
	Session 2_ Strengthening of structures for extreme loading (II)	Session 5_ Behaviour of structures under collapse (I)	Session 8_ Performance of material under extreme loading (I)
	Chairpersons : Mr Peter McDonald and Prof Haiyan Zhang	Chairpersons : Prof Masuhiro Beppu and Asst Prof Kang Chen	Chairpersons : Prof Dan Gan and Dr Su Wang
1030	EXPERIMENTAL ASSESSMENT DUCTILITY OF REINFORCED CONCRETE PIER WITH PRE-DEFORMED REINFORCEMENT UNDER CYCLIC LOADING <u>Wang Wenming</u> , Hiroki Tamai, Lu Chi, Yoshimi Sonoda	EXPERIMENTAL STUDY ON THE COLLAPSE RESPONSE OF REINFORCED CONCRETE FLAT SLAB STRUCTURES WITH COLUMN CAPITALS <u>Xuan Dat Pham</u> , Trung Hieu Nguyen, Ngoc Tan Nguyen, Kim Anh Do, Anh Tuan Pham, Quoc Cuong Tran, Truong Thang Nguyen, Van Hung Nguyen	DYNAMIC COMPRESSIVE PROPERTIES OF STRAIN- HARDENING ULTRA-HIGH PERFORMANCE CONCRETE <u>Dong Zhang</u> , Huan Tu
1045	NUMERICAL PREDICTION OF FIRE RESISTANCE OF CONCRETE-FILLED STEEL TUBULAR (CFST) COLUMNS PROTECTED BY INTUMESCENT FIRE COATING <u>Dravesh Yadav</u> , Prajjwal Patidar, Gaurav Srivastava	REDUCED ORDER MODELLING OF MOMENT CONNECTIONS IN REINFORCED CONCRETE SUBFRAMES OF COLUMN LOSS SCENARIOS <u>Leong Hien Poh</u> , Yu Chen	EXPERIMENTAL STUDY ON DYNAMIC COMPRESSIVE BEHAVIORS OF CARBON FIBER REINFORCED CONCRETE UNDER HIGH TEMPERATURES <u>Zichen Wang</u> , Liang Li, Jun Wu
1100	EXPLOSION ANALYSIS ON PROTECTION WALL OF HYDROGEN STORAGE TANK WITH TNT EQUIVALENT WEIGHT METHOD <u>Topendra Oli</u> , Abidemi Bashiru Folorunsho, Gihyun Kim, Taejin Jang, Cheolwoo Park, Seungwon Kim	AN INSIGHT INTO THE BLAST-INDUCED COLLAPSE OF SIMPLY-SUPPORTED HIGHWAY BRIDGES <u>Liangliang Ma</u> , Hao Wu	HIGH TEMPERATURE PERFORMANCE OF LIGHTWEIGHT ULTRA-HIGH PERFORMANCE CONCRETE <u>Jitai Zhou</u> , Jianwei Jiang
1115	NUMERICAL SIMULATION FOR COMBINED BLAST AND FRAGMENTATION EFFECTS ON STEEL-CONCRETE COMPOSITE PANELS <u>Lim Jia Yuan</u> , Melvin Goh Chong Yik, Kang Kok Wei, Jun Li, Chengqing Wu	PROGRESSIVE COLLAPSE OF A TIMBER FRAME BUILDING SUBJECTED TO SINGLE- AND MULTI-COLUMN DAMAGE SCENARIOS <u>Alex Sixie Cao</u> , Andrea Frangi	FIRE SPALLING EVALUATION OF HEAT-RESISTANT CROSS-SECTIONAL REPAIR MATERIALS AT EARLY AGES Ryoma Okura, Yuto Kuwabara, Takuya Fukui, <u>Mitsuo Ozawa</u>
1130	THE EFFECT OF STATIC PRELOADS ON RC BEAMS AND SLABS SUBJECTED TO BLAST LOADS <u>Scott McFadden</u> , Wesam Njeem, Ashok Malhotra, Laura Ciomei	IMPLEMENTATION OF SLIDING JOINTS IN MASONRY INFILL WALLS TO INCREASE THE ROBUSTNESS OF REINFORCED CONCRETE FRAME STRUCTURES IN A COLUMN FAILURE SCENARIO Alex Brodsky, <u>Bar Bamani</u> , Pavel Trapper	STRUCTURAL CHARACTERIZATION AND FIRE PERFORMANCE OF GEOPOLYMER-GLASS FIBER COMPOSITE PANELS <u>Ye Kai</u>
1145	PARAMETER IDENTIFICATION OF MULTI-SCALE NONLINEAR MODEL OF BRIDGE STRUCTURE UNDER UNKNOWN SEISMIC EXCITATION <u>Liu Lijun</u>	EVALUATION AND APPLICATION OF THE DAMAGED EFFECTS OF REINFORCED CONCRETE COLUMNS IN BLASTING DEMOLITION <u>Yu Yan</u> , Jiwei Guo, Honglu Fei	INTERFACIAL BONDING PROPERTIES OF ETHYLENE VINYL ACETATE REINFORCED CARBON NANOTUBE REPAIR MATERIALS AND OLD CONCRETE <u>Bozhong Lin</u> , Yao Yao
1200	Lunch		

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	Session 3_Strengthening of structures for extreme loading (III)	Session 6_Behaviour of structures under collapse (II)	Session 9_Performance of material under extreme loading (II)
	Chairpersons : Dr Kok Wei Kang and Asst Prof Srishti Banerji	Chairpersons : Prof Trung Nguyen Tuan and Assoc Prof Leong Hien Poh	Chairpersons : Dr Panwei Du and Prof Dong Zhang
1330	STRUCTURAL BEHAVIOR OF S-UHPC-S COMPOSITE WALLS UNDER NEAR-FIELD BLAST LOAD Shi-Lin Liang, <u>Yu Jun</u>	A PROGRESSIVE COLLAPSE ANALYSIS OF THE 1995 MURRAH BUILDING COLLAPSE: INTEGRATING CFD AND AEM FOR A HOLISTIC APPROACH <u>Peter McDonald</u> , Ayman Elfouly	FIRE SPALLING PROPERTIES OF HIGH-PERFORMANCE CONCRETE AT AN EARLY AGE UNDER THE RING-RESTRAINED CONDITION Shun Hanyu, Yuto Kuwabara, <u>Mitsuo Ozawa</u>
1345	MITIGATING DAMAGE OF STRUCTURES UNDER BLAST LOADS USING LINEAR PROTECTIVE LAYERS Eyal Eytam, <u>Hezi Y. Grisaro</u>	EXPERIMENTAL AND NUMERICAL INVESTIGATION OF UNBONDED/BONDED POST-TENSIONED PRECAST CONCRETE FRAMES SUBJECT TO A PENULTIMATE COLUMN LOSS <u>Hai-Rong Shi</u> , Chun-Lin Wang, Jun Yu, Shaoping Meng	REINFORCING METHODS FOR THE LOCAL FAILURE OF RC SLABS <u>Masuhiko Beppu</u> , Koki Mori
1400	CALIBRATION OF K&C MODEL FOR POLYOXYMETHYLENE-FIBER-REINFORCED CONCRETE UNDER BLAST LOADING <u>Jian-Yun Sun</u> , Choon-Keat Ang, Siew-Fern Lim, Jonathan Han	EASY-TO-USE ANALYTICAL MODEL OF COMPRESSIVE ARCH ACTION OF BI-DIRECTIONAL PRIMARY RC BEAMS IN FRAMED STRUCTURES UNDER DIFFERENT COLUMN REMOVAL SCENARIOS Yintong Bao, <u>Qiao Meixia</u> , Tan Kang Hai	PENETRATION RESISTANCE OF CARBON MINERALISED CONCRETE MIXES <u>Timothy Huang</u> , Kang Kok Wei, Koh Yong Hong, Lim Jia Yuan, Zhang Jie
1415	EXPERIMENTS AND RESPONSE ANALYSIS OF DROP WEIGHT IMPACT ON RC BEAMS WITH DILATANT FLUID SHOCKABSORBER <u>Yukihide Kajita</u> , Yusuke Kunimoto, Masahide Takashiro, Tomohiko Yamasaki	DAMAGE TOLERANCE OF COMPARTMENTALIZED FRAME STRUCTURES: INSIGHTS FROM ENERGY REDISTRIBUTION PATTERNS <u>Valerio De Biagi</u>	EXPERIMENTAL STUDY ON MECHANICAL CHARACTERISTICS OF UHSTC AND ANTI-EXPLOSION PERFORMANCE OF ITS COMPONENT <u>Shaojun Cao</u> , Songhang Liu, Yifei Hao
1430	A PERFORMANCE ASSESSMENT APPROACH OF GUIDED FLEXIBLE BARRIER SYSTEM BASED ON FRAGILITY ANALYSIS <u>Hu Xu</u> , Yu Zihan, Wu Shiqi, Yu Zhixiang	APPLICATION OF HEADED BARS IN PRECAST CONCRETE WET JOINTS UNDER ACCIDENTAL LOADS: EXPERIMENTAL AND NUMERICAL INVESTIGATIONS Van Hung Nguyen, <u>Xuan Dat Pham</u> , Kang Hai Tan	INVESTIGATION ON THE QUASI-STATIC MECHANICAL PROPERTIES AND DYNAMIC COMPRESSIVE BEHAVIORS OF ULTRA-HIGH PERFORMANCE CONCRETE WITH CRUMBED RUBBER POWDERS <u>Jianwei Jiang</u> , Jitai Zhou
1445	BLAST PROTECTION SOLUTION AND ACTUAL PROTECTION PERFORMANCE FOR BLAST SHELTERS <u>Adrian Xie</u>	EXPERIMENTAL STUDY ON PROGRESSIVE COLLAPSE BEHAVIOR FOR BEAM-COLUMN SUBSTRUCTURE OF MODULAR STEEL BUILDING <u>Yumei Zhang</u> , Junshan Liu, Bo Yang, Kang Chen	
1500	Tea Break		

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	Session 4_Performance of structures under impact loading	Session 7_Performance of structures under cyclic, dynamic and fatigue loading	Session 10_Performance of structures under static loading
	Chairpersons : Assoc Prof Toshiyuki Horiguchi and Dr Gaoming Zhu	Chairpersons : Assoc Prof Manish Kumar and Assoc Prof Valerio De Biagi	Chairpersons : Prof Yuguang Fu and Assoc Prof Yukihide Kajita
1530	RESEARCH ADVANCEMENT ON CFST WITH RANDOM LOCALIZED CORROSION SUBJECTED TO STATIC AND IMPACT LOADING <u>Chao Hou</u>	SEISMIC ANALYSIS OF STEEL STAGGERED TRUSS FRAMING STRUCTURE WITH ENERGY-DISSIPATIVE CONNECTION BETWEEN SLABS AND CHORDS <u>Li Yang</u> , Gan Dan, Xuhong Zhou	COMPONENT-BASED MECHANICAL MODELS FOR SQUARE CONCRETE-FILLED STEEL TUBULAR DIAGONAL-PLATE CONNECTIONS <u>Dan Gan</u> , Lei Gao, Xuhong Zhou, Pengfei He
1545	FINITE ELEMENT ANALYSIS FOR VIBRATION RESPONSE OF BRIDGE MODULAR EXPANSION DEVICE UNDER VEHICLE LOAD Linren Zhou, Haoyu Zhang, <u>Junbin Zheng</u>	STUDY ON FLUCTUATING WIND PRESSURE CHARACTERISTICS AND FATIGUE PERFORMANCE OF FULLY ENCLOSED NOISE BARRIER OF BEIJING-XIONG'AN INTERCITY HIGH-SPEED RAILWAY BRIDGE <u>Ming Li</u> , Changqing Miao, Manrong Song, Gezhi Xu, Pengyu Dong, Xu Zhaodong	RESEARCH ON THE SHEAR PERFORMANCE OF PZ SHEAR CONNECTORS IN COMPOSITE BEAMS <u>Jie Yu</u> , Chengyi Li, Yuhang Wang, Ke Ke, Jike Tan
1600	EXPERIMENTAL STUDY ON DEBRIS FLOW IMPACT LOADS USING OPEN SABO DAM SUPPORTED BY CABLES <u>Yuta Miyahara</u> , Toshiyuki Horiguchi	INFLUENCE OF GROUTING DEFECTS ON THE DYNAMIC TENSILE BEHAVIOUR OF GROUTING SLEEVE CONNECTIONS An He, <u>Dun-Cong Zheng</u> , Jia-Bin Ye, Qingjun Chen	TOPOLOGY OPTIMIZATION AND TENSILE BEHAVIOR OF SQUARE CONCRETE-FILLED STEEL TUBULAR CONNECTIONS WITH DIAGONAL PLATES <u>Pengfei He</u> , Dan Gan, Lei Gao, Xuhong Zhou
1615	STUDY ON DYNAMIC BEHAVIOR OF PRECAST CONCRETE COLUMNS WITH PRESSED SLEEVE CONNECTIONS UNDER IMPACT LOADING Qing Jun Chen, <u>Jun Lei</u> , Miao-jin Yao, Yu-qi Zhang	SEISMIC PERFORMANCE OF A HYBRID SYSTEM OF HOT-ROLLED STEEL FRAME AND STEEL SHEATHED COLD-FORMED STEEL SHEAR WALL <u>Shen Liu</u>	FINITE ELEMENT MODELLING OF BEAM-TO-COLUMN (BTC) CONNECTIONS IN TALL MASS TIMBER BUILDINGS <u>Sardar Malek</u> , Dina Ghazi-nader, Hadiseh Mohammadi, Jacci Rock, Kyle Stueck
1630	BEHAVIOR OF HOLLOW STEEL TUBULAR COLUMNS SUBJECTED TO LOW-VELOCITY LATERAL IMPACT BY DEFORMABLE PROJECTILE: NUMERICAL STUDIES <u>Prithvi Sangani</u> , Kaushik Ghoshal, Anil Agarwal	A METHOD FOR EVALUATING THE RESILIENT PERFORMANCE OF BEAM-COLUMN JOINT WITH REPLACABLE ENERGY DISSIPATION COMPONENT <u>Qi Ge</u> , Yinghan Song, Feng Xiong	METHODOLOGY TO CALIBRATE CONCRETE DAMAGE PLASTICITY (CDP) PARAMETERS FOR NUMERICAL ANALYSIS OF REINFORCED CONCRETE STRUCTURES <u>Hymavathi Annapoorna Chandrabhatla</u> , Appa Rao Gangolu
1645	OPTIMISATION OF STEEL BLAST DOOR SYSTEMS <u>Paolo Del Linz</u> , Yiaw Heong Ng	LOW-CYCLE FATIGUE LIFE PREDICTION OF CONCENTRICALLY STEEL BRACED FRAMES BASED ON SVM <u>Lijing Zeng</u>	FEATURES OF PRESTRESSED TENDONS WITH CATERNARY-CANTILEVER SHAPE AND ITS INFLUENCE ON FRICTION LOSS AND INVERTED ARCH DEFLECTION <u>Jianshe Xu</u> , Ran Ma
1700	End		
1900	Dinner registration		
1930	Conference dinner		