



Conference Program

10th International Conference on Structures in Fire

Ulster University, FireSERT, June 5 - 8, 2018

| Tuesday, June 5, 2018 | | | | | | |
|-------------------------|---|---|--|----------|------------------|-------------------------------------|
| 18:00 - 20:00 | Registration and Opening Reception (Belfast Centre Campus) | Sponsored by the Faculty of Engineering, Built Environment and Innovation Office, Ulster University | | | | |
| Wednesday, June 6, 2018 | | | | | | |
| 07:00 - 08:00 | Registration and Continental Breakfast (The Bridge, Floor 6, Titanic Belfast) | | | | | |
| 08:00 - 08:30 | Opening (Titanic Suite Floor 5, Main Conference) | | | | | |
| 08:30 - 09:30 | Session 1-A: Experimental Research and any Other & Numerical Modelling (Titanic Suite) Co-Moderators: To be announced | | | Paper ID | Proceeding Page | Conference Theme |
| 8:30 - 8:45 | EFFECT OF COMBINED POLYPROPYLENE AND STEEL FIBRES ON PORE-PRESSURE DEVELOPMENT IN ULTRA-HIGH-PERFORMANCE CONCRETE IN FIRE | Ye Li, Pierre Pimienta, Nicolas Pinoteau, Kang Hai Tan | | 36 | 869 | Experimental Research and any Other |
| 8:45 - 9:00 | DISCUSSION ON A SYSTEMATIC APPROACH TO VALIDATION OF SOFTWARE FOR STRUCTURES IN FIRE | Joao Ferreira, Thomas Gernay, Jean-Marc Franssen | | 61 | 317 | Numerical Modelling |
| 9:00 - 9:15 | SEISMIC PERFORMANCE OF REINFORCED CONCRETE FRAMES AFTER FIRE | Ling-zhi Li , Xin Liu, Zhou-dao Lu, Kai Wei | | 90 | 909 | Experimental Research and any Other |
| 9:15 - 9:30 | VIRTUAL TEST OF FIRE-RESISTANCE OF A TIMBER BEAM | Kamila Cabova , Filip Zeman, Martin Benýšek, Stanislav Šulc, Vít Šmilauer, František Wald | | 154 | 391 | Numerical Modelling |
| 9:30 - 10:00 | Coffee Break / Poster Session (Gallery Outside: Britannia floor 5 & The Bridge floor 6) | | | | | |
| 10:00 - 11:45 | Session 1-B.1: Experimental Research and any Other (Titanic Suite) Co-Moderators: To be announced | | | Paper ID | Proceeding Page | Conference Theme |
| 10:00 - 10:15 | PERFORMANCE ASSESSMENT OF A STRUCTURE THROUGH HYBRID (NUMERICAL- EXPERIMENTAL) SIMULATION | <i>Xuguang Wang, Robin Kim, Oh-Sung Kwon, In-Hwan Yeo, Jae-Kwon Ahn</i> | | 4 | 853 | Experimental Research and any Other |
| 10:15 - 10:30 | A PI-CONTROLLER FOR HYBRID FIRE TESTING IN A NON-LINEAR ENVIRONMENT | <i>Elke Mergny, Guillaume Drion, Thomas Gernay, Jean-Marc Franssen</i> | | 6 | 861 | Experimental Research and any Other |
| 10:30 - 10:45 | RADIATIVE FLUX AFFECTING VERTICAL STEEL ELEMENT AWAY FROM THE FIRE – SIMPLIFIED METHOD LOCAFI | <i>Camille Sautot, François Hanus, Christophe Thauvoye, Giacomo Erez, Aurélien Thiry</i> | | 71 | 885 | Experimental Research and any Other |
| 10:45 - 11:00 | EVALUATING UNCERTAINTY IN STEEL-COMPOSITE STRUCTURE RESPONSE UNDER FIRE – APPLICATION OF THE ME-MDRM | <i>Ruben Van Coile, Thomas Gernay, Negar Elhami Khorasani, Danny Hopkin</i> | | 74 | 893 | Experimental Research and any Other |
| 11:00 - 11:15 | EXPERIMENTAL INVESTIGATION OF LIQUID POOL BURNING BEHAVIOUR AND FAÇADE FIRES IN CORRIDOR-LIKE ENCLOSURES | <i>Kostantinos Chotzoglou, Eleni Asimakopoulou, Jianping Zhang, Michael Delichatsios</i> | | 82 | 901 | Experimental Research and any Other |
| 11:15 - 11:30 | MONITORING SPALLING OF HEATED CONCRETE USING LASER DISTANCE METRE | <i>Jin-Cheng Liu, Kang Hai Tan</i> | | 92 | 917 | Experimental Research and any Other |
| 11:30 - 11:45 | EXPERIMENTAL STUDIES ON EARLY WARNING APPROACHES OF THE COLLAPSE OF STEEL PORTAL FRAME STRUCTURES IN FIRE | <i>Ya-Qiang Jiang, Bo Zhong, Guo-Biao Lou, Jun-Jun Liu, Jian-Zhong Rong</i> | | 108 | 925 | Experimental Research and any Other |
| 10:00 - 11:45 | Session 1-B.2: Numerical Modelling (Olympic Suite) Co-Moderators: To be announced | | | Paper ID | Proceeding Pages | Conference Theme |
| 10:00 - 10:15 | A STOREY-BASED STABILITY ANALYSIS APPROACH FOR PREDICTING OF THE WORST-CASE FIRE SCENARIO OF UNBRACED STEEL FRAMES | <i>Terence Ma, Lei Xu</i> | | 43 | 309 | Numerical Modelling |
| 10:15 - 10:30 | BRANCH-SWITCHING PROCEDURE FOR BUCKLING PROBLEMS OF SLENDER STEEL ELEMENTS IN FIRE | <i>Luca Possidente, Nicola Tondini, Jean-Marc Battini</i> | | 64 | 325 | Numerical Modelling |
| 10:30 - 10:45 | TWO-DIMENSIONAL MODELLING OF THERMAL RESPONSES OF GFRP PROFILES EXPOSED TO ISO-834 FIRE | <i>Lu Wang, Lingfeng Zhang, Weiqing Liu</i> | | 93 | 333 | Numerical Modelling |

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| 10:45 - 11:00 | CFD ANALYSES USED TO EVALUATE THE INFLUENCE OF COMPARTMENT GEOMETRY ON THE POSSIBILITY OF DEVELOPMENT OF A TRAVELLING FIRE | <i>Marion Charlier, Antonio Gamba, Xu Dai, Stephen Welch, Olivier Vassart, Jean-Marc Franssen</i> | 114 | 341 | Numerical Modelling |
| 11:00 - 11:15 | NUMERICAL MODELLING OF THE FIRE BEHAVIOUR OF RESTRAINED CELLULAR BEAMS USING A HYBRID SIMULATION APPROACH | <i>Mustesin Ali Khan, Dr. Liming Jiang, Dr. Katherine A. Cashell, Prof. Asif Usmani</i> | 115 | 349 | Numerical Modelling |
| 11:15 - 11:30 | FRACTURE SIMULATION FOR STEEL SHEAR TAB CONNECTIONS AT ELEVATED TEMPERATURE | <i>Wenyu Cai, Mohammed A. Morovat, Michael D. Engelhardt</i> | 121 | 359 | Numerical Modelling |
| 11:30 - 11:45 | CONTRIBUTION TO THE NUMERICAL Modelling OF THE THERMOMECHANICAL BEHAVIOR OF STEEL-REINFORCED CONCRETE BEAMS EXTERNALLY REINFORCED WITH TEXTILE REINFORCED CONCRETE (TRC) | <i>Najib Douk, Amir Si Larbi, Xuan Hong Vu, Maxime Audebert</i> | 123 | 375 | Numerical Modelling |
| 11:45 - 13:00 | Lunch (The Bridge Floor 6 & Britannia Room Floor 5) | | | | |
| 13:00 - 14:45 | Session 1-C.1: Experimental Research and any Other (Titanic Suite) Co-Moderators: To be announced | | Paper ID | Proceeding Pages | Conference Theme |
| 13:00 - 13:15 | INSTANTANEOUS STIFFNESS CORRECTION FOR HYBRID FIRE TESTING | <i>Ramla Qureshi, Negar Elhami-Khorasani</i> | 116 | 933 | Experimental Research and any Other |
| 13:15 - 13:30 | EXPERIMENTAL INVESTIGATION OF THERMOMECHANICAL BEHAVIOR OF THE CARBON TEXTILE REINFORCED CONCRETE: EFFICIENCY COEFFICIENT OF CARBON TEXTILE AT ELEVATED TEMPERATURES | <i>Manh Tien Tran, Xuan Hong Vu, Emmanuel Ferrier</i> | 124 | 941 | Experimental Research and any Other |
| 13:30 - 13:45 | AN EXPERIMENTAL APPROACH FOR EVALUATING RESIDUAL CAPACITY OF FIRE DAMAGED CONCRETE MEMBERS | <i>Ankit Agrawal, Venkatesh Kodur</i> | 126 | 949 | Experimental Research and any Other |
| 13:45 - 14:00 | EVALUATION METHOD OF THERMAL ELONGATION OF STEEL BEAMS DURING FIRE BASED ON ACTUAL SCALE TESTS | <i>Tomohito Okazaki, Mamoru Kohno</i> | 129 | 959 | Experimental Research and any Other |
| 14:00 - 14:15 | EXPERIMENTAL STUDY ON THERMAL AND STRUCTURAL RESPONSES OF A FULL-SCALE STEEL STRUCTURE UNDER NATURAL FIRE | <i>Bo Zhong, Ya-Qiang Jiang, Guo-Biao Lou</i> | 153 | 975 | Experimental Research and any Other |
| 14:15 - 14:30 | FIRE RESISTANT GFRP FAÇADE SYSTEMS | <i>Kate Nguyen, Priyan Mendis, Tuan Ngo</i> | 160 | 981 | Experimental Research and any Other |
| 14:30 - 14:45 | HYBRID FIRE TESTING OF A SINGLE DEGREE-OF-FREEDOM LINEAR SYSTEM | <i>Ana Sauca, Chao Zhang, Artur Chernovsky, Mina Seif</i> | 192 | 997 | Experimental Research and any Other |
| 13:00 - 14:45 | Session 1-C.2: Numerical Modelling (Olympic Suite) Co-Moderators: To be announced | | Paper ID | Proceeding Pages | Conference Theme |
| 13:00 - 13:15 | A NUMERICAL METHODOLOGY TO PREDICT THE GAS/SOLID INTERACTION IN FIRE RESISTANCE TESTS | <i>Rene Prieler, Markus Mayrhofer, Markus Eichhorn-Gruber, Günther Schwabegger, Christoph Hochenauer</i> | 151 | 383 | Numerical Modelling |
| 13:15 - 13:30 | REDUCED-ORDER THERMAL ANALYSIS OF FIRE EFFECTS ON COMPOSITE SLABS | <i>Jian Jiang, Joseph Main, Jonathan Weigand, Fahim Sadek</i> | 161 | 399 | Numerical Modelling |
| 13:30 - 13:45 | NUMERICAL INVESTIGATION OF FIRE AND POST-FIRE PERFORMANCE OF CFT COLUMNS IN AN OPEN CAR PARK FIRE | <i>Wojciech Szymkuć, Adam Glema, Michał Malendowski, Aleksandra Mielcarek, Piotr Smardz, Adrian Poteralski</i> | 168 | 407 | Numerical Modelling |
| 13:45 - 14:00 | ANALYSIS OF THE INFLUENCE OF VENTILATION IN THE STRUCTURAL RESPONSE OF A CUT-AND-COVER TUNNEL UNDER FIRE. | <i>Juan Pagan-Martinez, Ignacio Paya-Zaforteza, Antonio Hospitaler, Toni Hospitaler</i> | 194 | 415 | Numerical Modelling |
| 14:00 - 14:15 | REVERSE ENGINEERING OF STANDARD TEMPERATURE CURVES TO OBTAIN THE HRR OF THE FIRE IN VARIOUS ENCLOSURE CONFIGURATIONS - WHAT CAN WE LEARN FROM THAT ? | <i>Piotr Tofilo, Wojciech Wegrzynski, Michał Malendowski</i> | 195 | 423 | Numerical Modelling |
| 14:15 - 14:30 | FRAGILITY OF REINFORCED CONCRETE STRUCTURE SUBJECTED TO ELEVATED TEMPERATURE | <i>Ranjit Chaudhary, Tathagata Roy, Vasant Matsagar</i> | 200 | 431 | Numerical Modelling |
| 14:30 - 14:45 | ADVANCE HEAT TRANSFER ANALYSIS AND CAPACITY CURVES ACCOUNTING FOR THE EFFECT OF SPALLING | <i>Hitesh Lakhani, Jan Hofmann</i> | 211 | 439 | Numerical Modelling |
| 14:45 - 15:15 | Coffee Break / Poster Session (Gallery Outside: Britannia floor 5 & The Bridge floor 6) | | | | |

| 15:15 - 16:45 | Session 1-D.1: Experimental Research and any Other, Numerical Modelling & Composite Structures (Titanic Suite) Co-Moderators: To be announced | | | Paper ID | Proceeding Pages | Conference Theme |
|--|---|--|-----|----------|---|------------------|
| 15:15 - 15:30 | EXPERIMENTAL TESTS AND SUBSEQUENT ANALYSIS OF LOCALIZED POOL FIRES IMPACTING STEEL COLUMNS AND BEAMS WITH WEB OPENINGS IN A COMPARTMENT. | <i>Ali Nadjai, Francois Hanus, Olivier Vassart, Sanghoon Han</i> | 193 | 1005 | Experimental Research and any Other | |
| 15:30 - 15:45 | FIRE RESISTANCE OF CONCRETE SLABS ACTING IN COMPRESSIVE MEMBRANE ACTION WITH VARIOUS BOUNDARY CONDITIONS | <i>Tom Molken</i> | 218 | 447 | Numerical Modelling | |
| 15:45 - 16:00 | STRUCTURAL IMPLICATIONS DUE TO AN EXTENDED TRAVELLING FIRE METHODOLOGY (ETFM) FRAMEWORK USING SIFBUILDER | <i>Xu Dai, Stephen Welch, Asif Usmani</i> | 220 | 455 | Numerical Modelling | |
| 16:00 - 16:15 | ELEVATED-TEMPERATURE TENSION STIFFENING MODEL FOR REINFORCED CONCRETE STRUCTURES UNDER FIRE | <i>Jason Martinez, Ann Jeffers</i> | 221 | 463 | Numerical Modelling | |
| 16:15 - 16:30 | LOAD-BEARING FIRE TESTS OF UNPROTECTED COMPOSITE BEAMS PINNED WITH STEEL GIRDERS | <i>Robert Dwiputra, Naoya Yotsumoto, Takeo Hirashima, Fuminobu Ozaki, Yukio Murakami, Kei Kimura</i> | 137 | 561 | Composite Structures | |
| 16:30 - 16:45 | METHODS TO ASSESS THE BEARING CAPACITY OF CONCRETE-FILLED HOLLOW SECTION COLUMNS IN FIRE | <i>Alberto Compagnone, Antonio Bilotta, Emidio Nigro</i> | 199 | 593 | Composite Structures | |
| 15:15 - 16:45 | Session 1-D.2: Concrete Structures & Timber Structures and Fire Protection Materials (Olympic Suite) Co-Moderators: To be announced | | | Paper ID | Proceeding Pages | Conference Theme |
| 15:15 - 15:30 | STRUCTURAL BEHAVIOUR OF R/C BEAMS EXPOSED TO NATURAL FIRES | <i>Nataša Kalaba, Venkatesh Kodur, Ankit Agrawal, Patrick Bamonte</i> | 175 | 139 | Concrete Structures | |
| 15:30 - 15:45 | RESIDUAL STRENGTH OF ULTRA-HIGH PERFORMANCE FIBRE REINFORCED CONCRETE | <i>Charles Kahanji, Faris Ali, Ali Nadjai</i> | 177 | 147 | Concrete Structures | |
| 15:45 - 16:00 | STUDY OF FIRE RESISTANCE OF RC COLUMNS WITH VARYING SHEAR REINFORCEMENT | <i>Hemanth Kumar Chinthapalli, Anil Agarwal</i> | 178 | 157 | Concrete Structures | |
| 16:00 - 16:15 | ON THE PULL-OUT CAPACITY OF POST-INSTALLED BONDED ANCHORS AND REBARS DURING FIRE | <i>Hitesh Lakhani, Jan Hofmann</i> | 182 | 165 | Concrete Structures | |
| 16:15 - 16:30 | DESIGN OF POST TENSIONED CONCRETE STRUCTURES EXPOSED TO TRAVELLING FIRES | <i>Chloe Jeanneret, John Gales, Panagiotis Kotsovinos, Guillermo Rein</i> | 189 | 173 | Concrete Structures | |
| 16:30 - 16:45 | PARAMETRIC STUDIES ON BEAM-TO-COLUM STEEL-O-TIMBER DOWELLED CONNECTIONS EXPOSED TO FIRE | <i>Pedro Palma, Andrea Frangi</i> | 2 | 183 | Timber Structures and Fire Protection Materials | |
| 17:30 - 19:00 Participants are offered 50% discount to visit the Titanic Galleries | | | | | | |
| Thursday June 7, 2018 | | | | | | |
| 07:00 - 08:00 Registration and Continental Breakfast (The Bridge, Floor 6, Titanic Belfast) | | | | | | |
| 08:00 - 09:30 | Session 2-A: Short Presentations (Titanic Suite) Co-Moderators: To be announced | | | Paper ID | Proceeding Pages | Conference Theme |
| 08:00 - 08:06 | SCALING APPROACH FOR STUDYING FIRE RESPONSE OF STEEL BEAMS | <i>Mahmood Yahyai, Abbas Rezaiean, Peter Chang</i> | 42 | 877 | Experimental Research and any Other | |
| 08:06 - 08:12 | EXPERIMENTAL INVESTIGATION OF STAINLESS STEEL BOLTS A2-70 DURING AND AFTER FIRE | <i>Ying Hu, ShengLin Tang, George Adomako Kumi</i> | 142 | 967 | Experimental Research and any Other | |
| 08:12 - 08:18 | TIMBER AND THE FIRE RESISTANCE FURNACE – A COMPARATIVE STUDY OF THE CONDITIONS IN A FIRE RESISTANCE FURNACE WHEN TESTING COMBUSTIBLE AND NON-COMBUSTIBLE CONSTRUCTION | <i>David Lange, Johan Sjöström, Joachim Schmid, Daniel Brandon</i> | 170 | 989 | Experimental Research and any Other | |
| 08:18 - 08:24 | NUMERICAL Modelling OF THERMAL BEHAVIOUR OF CFRP REINFORCED CONCRETE STRUCTURE EXPOSED TO ELEVATED TEMPERATURE | <i>Phi Long Nguyen, Xuan Hong Vu, Emmanuel Ferrier</i> | 122 | 367 | Numerical Modelling | |
| 08:24 - 08:30 | BEHAVIOUR OF STEEL FRAME STRUCTURES UNDER LOCALISED FIRE INCLUDING PROGRESSIVE COLLAPSE DURING COOLING | <i>Thomas Gernay, Antonio Gamba</i> | 31 | 633 | Steel Structures | |
| 08:30 - 08:36 | FIRE TESTS OF LOAD BEARING DOUBLE STUD LSF WALLS | <i>Harikrishnan Magarabooshanam, Anthony Ariyanayagam, Mahen Mahendran</i> | 32 | 641 | Steel Structures | |
| 08:36 - 08:42 | STUDY ON TEMPERATURE DISTRIBUTION OF WELDED TUBULAR SQUARE JOINTS | <i>Jolanta Bączkiewicz, Mikko Malaska, Sami Pajunen, Markku Heinisuo</i> | 49 | 679 | Steel Structures | |

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| 08:42 | 08:48 | RESEARCH ON POST-FIRE LOAD-BEARING CAPACITY ASSESSMENT OF AXIAL RESTRAINED HIGH-STRENGTH STEEL COLUMNS | <i>Guo-Qiang Li, Jia-Rong Miao</i> | 100 | 741 | Steel Structures | |
| 08:48 | 08:54 | FIBRE REINFORCED SHOTCRETE – PRESENCE OF SYNTHETIC MACRO FIBRES AFTER FIRE | <i>Cristian Maluk, Todd Clarke, Andrew Ridout</i> | 155 | 117 | Concrete Structures | |
| 08:54 | 09:00 | RELATIONSHIPS BETWEEN DESTRUCTIVE AND NON-DESTRUCTIVE METHODS FOR NORMAL STRENGTH LIMESTONE CONCRETE AFTER EXPOSURE TO HIGH TEMPERATURES | <i>Urška Dolinar, Gregor Trtnik, Tomaž Hozjan</i> | 172 | 133 | Concrete Structures | |
| 09:00 | 09:06 | MODELLING NON-METALLIC TIMBER CONNECTIONS IN FIRE | <i>Ranim Dahli, Martin Gillie, John Gales</i> | 134 | 275 | Timber Structures and Fire Protection Materials | |
| 09:06 | 09:12 | INFLUENCE OF GAS TEMPERATURE DURING COOLING PHASE ON LOAD-BEARING PERIOD OF STRUCTURAL GLUED LAMINATED TIMBER BEAMS EXPOSED TO FIRE | <i>Takeo Hirashima, Yusuke Katakura, Moto Ichikawa, Shungo Ishii</i> | 207 | 291 | Timber Structures and Fire Protection Materials | |
| 09:12 | 09:18 | FIRE BEHAVIOUR OF SLENDER CONCRETE-FILLED STEEL TUBULAR COLUMNS UNDER BIAXIAL BENDING | <i>Ana Espinós, Vicente Albero, Manuel L. Romero, Maximilian Mund, Patrick Meyer, Peter Schaumann, Inka Kleiboemer</i> | 138 | 569 | Composite Structures | |
| 09:18 | 09:24 | NUMERICAL ANALYSIS OF THE THERMAL BEHAVIOUR OF STEEL-TIMBER HYBRID BEAMS IN FIRE SITUATION | <i>Antoine Bereysia, Maxime Audebert, Sébastien Durif, Abdelhamid Bouchair</i> | 171 | 577 | Composite Structures | |
| 09:24 | 09:30 | Interaction | | | | | |
| 09:30 - 10:00 | | Coffee Break/Poster Session (Gallery Outside: Britannia room floor 5 & The Bridge floor 6) | | | | | |
| 10:00 - 11:45 | | Session 2-B.1: Steel Structures (Titanic Suite) | | | Paper ID | Proceeding Pages | Conference Theme |
| | | Co-Moderators: To be announced | | | | | |
| 10:00 | 10:15 | PERFORMANCE OF BEAM-COLUMN SUBASSEMBLAGES OF MULTI-STORY STEEL STRUCTURES WITH CONTINUOUS COLUMNS IN SEVERE FIRES | <i>Chia Mohammadjani, Charles Clifton, Anthony Abu</i> | 10 | 611 | Steel Structures | |
| 10:15 | 10:30 | FAILURE MECHANISM OF STEEL FRAMES SUBJECTED TO POST-EARTHQUAKE FIRES | <i>Gabriel-Victor Risco, Luisa Giuliani, Varvara Zania</i> | 173 | 803 | Steel Structures | |
| 10:30 | 10:45 | INFLUENCE OF FIRE ON THE SHEAR CAPACITY OF STEEL-SHEATHED COLD-FORMED STEEL FRAMED SHEAR WALLS | <i>Matthew Hoehler, Blanca Andres</i> | 19 | 625 | Steel Structures | |
| 10:45 | 11:00 | PRELIMINARY STUDY ON QUANTITATIVE DETERMINATION OF COLLAPSE PROCESS OF STEEL PORTAL FRAMES IN FIRE | <i>Guobiao Lou, Chenghao Wang, Jian Jiang, Guo-Qiang Li</i> | 39 | 655 | Steel Structures | |
| 11:00 | 11:15 | STEADY-STATE AND TRANSIENT-STATE TESTS ON S355 TO S500 STEEL GRADES | <i>François Hanus, Nicolas Caillet, Sylvain Gaillard, Olivier Vassart</i> | 40 | 663 | Steel Structures | |
| 11:15 | 11:30 | ESTIMATION OF CHARPY IMPACT VALUES FOR STEEL WELDED CONNECTIONS AT HIGH TEMPERATURE AND AFTER HEATING AND COOLING PROCESSES | <i>Ye Kai, Fuminobu Ozaki</i> | 46 | 671 | Steel Structures | |
| 11:30 | 11:45 | NUMERICAL PARAMETRIC STUDY OF COLD-FORMED STEEL C-SHAPED COLUMNS EXPOSED TO FIRE | <i>Luís Laím, João Paulo C. Rodrigues, Leroy Gardner</i> | 60 | 695 | Steel Structures | |
| 10:00 - 11:45 | | Session 2-B.2: Concrete Structures (Olympic Suite) | | | Paper ID | Proceeding Pages | Conference Theme |
| | | Co-Moderators: To be announced | | | | | |
| 10:00 | 10:15 | EXPERIMENTAL STUDIES ON SHEAR BEHAVIOUR OF DEEP PRESTRESSED CONCRETE HOLLOW CORE SLABS UNDER FIRE CONDITIONS | <i>Hang T. N. Nguyen, Kang Hai Tan</i> | 24 | 51 | Concrete Structures | |
| 10:15 | 10:30 | EXPERIMENTAL STUDY AND NUMERICAL SIMULATION OF FIRE RESISTANCE OF TWO-WAY RESTRAINED PRECAST CONCRETE COMPOSITE SLABS | <i>Qingfeng Xu, Lingzhu Chen, Xiangmin Li, Chongqing Han, Yang Zhang, Yongchang Wang, Weichen Xue</i> | 29 | 61 | Concrete Structures | |
| 10:30 | 10:45 | THE EFFECT OF EXPLOSIVE SPALLING ON PUNCHING SHEAR RESISTANCE OF CONCRETE SLABS EXPOSED TO FIRE | <i>Fangxia Lu, Roland Baertschi, Safak Arslantürkoglu, Johann van der Merwe, Mario Fontana</i> | 53 | 77 | Concrete Structures | |
| 10:45 | 11:00 | ROLE OF POLYMER FIBERS IN THE PREVENTION OF EXPLOSIVE SPALLING IN ULTRA-HIGH PERFORMANCE CONCRETE | <i>Dong Zhang, Kanghai Tan, Aravind Dasari</i> | 58 | 85 | Concrete Structures | |
| 11:00 | 11:15 | ROLE OF LOAD ECCENTRICITY AND TRANSVERSE REINFORCEMENT IN FIRE RESISTANCE OF REINFORCED CONCRETE COLUMNS | <i>Shujaat Buch, Umesh Sharma</i> | 73 | 93 | Concrete Structures | |
| 11:15 | 11:30 | VERIFICATION OF A TABULATED METHOD OF EUROCODE FOR CONCRETE COLUMNS USING A RESPONSE SURFACE AND ADVANCED METHODS | <i>Marcus Achenbach, Thomas Gernay, Guido Morgenthal</i> | 107 | 101 | Concrete Structures | |
| 11:30 | 11:45 | FIRE PERFORMANCE OF CONCRETE FLAT SLABS | <i>Pasindu Weerasinghe, Priyan Mendis, Kate Nguyen, Tuan Ngo</i> | 157 | 125 | Concrete Structures | |

| 11:45 - 13:00 | | Lunch (The Bridge Floor 6 & Britannia Room Floor 5) | | | |
|---------------|---|---|----------|------------------|--|
| 13:00 - 14:45 | | Session 2-C.1: Steel Structures (Titanic Suite) Co-Moderators: To be announced | Paper ID | Proceeding Pages | Conference Theme |
| 13:00 - 13:15 | AN EQUIVALENT STRESS METHOD FOR CONSIDERING LOCAL BUCKLING IN BEAM FINITE ELEMENTS IN THE FIRE SITUATION | <i>Chrysanthos Maraveas, Thomas Gernay, Jean-Marc Franssen</i> | 67 | 703 | Steel Structures |
| 13:15 - 13:30 | BEHAVIOUR OF BOLTED CONNECTIONS COMPONENT UNDER ELEVATED TEMPERATURES | <i>Ioan Both, Ioan Marginean, Florea Dinu, Calin Neagu, Raul Zaharia</i> | 77 | 711 | Steel Structures |
| 13:30 - 13:45 | BEHAVIOUR OF FULL HIGH STRENGTH STEEL EXTENDED ENDPLATE CONNECTIONS AFTER FIRE | <i>Xuhong Qiang, Xu Jiang, Frans Bijlaard</i> | 87 | 717 | Steel Structures |
| 13:45 - 14:00 | DIRECT METHOD FOR CRITICAL TEMPERATURE OF A STEEL MEMBER SUSCEPTIBLE TO STABILITY LOSS | <i>Teemu Tiainen, Timo Jokinen, Jolanta Baczkiewicz, Mikko Salminen</i> | 95 | 725 | Steel Structures |
| 14:00 - 14:15 | ANALYTICAL DETERMINATION OF TEMPERATURE DISTRIBUTION IN STEEL CABLES CONSIDERING CAVITY RADIATION EFFECT | <i>Yong Du, Liang Li, Jian Jiang, Guo-Qiang Li</i> | 98 | 733 | Steel Structures |
| 14:15 - 14:30 | DEVELOPMENT OF AN ANALYTICAL METHOD FOR THE FIRE RESISTANCE CALCULATION OF ANGELINA BEAMS | <i>Olivier Vassart, François Hanus, Jérôme Randaxhe</i> | 104 | 755 | Steel Structures |
| 14:30 - 14:45 | TESTS ON CREEP BUCKLING OF HIGH STRENGTH STEEL COLUMNS AT ELEVATED TEMPERATURES | <i>Weiyong Wang, Linbo Zhang, Hongyang Zhou, Venkatesh Kodur</i> | 110 | 763 | Steel Structures |
| 13:00 - 14:45 | | Session 2-C.2: Applications of Structural Fire Safety Engineering Timber Structures and Fire Protection Materials (Olympic Suite) Co-Moderators: To be announced | Paper ID | Proceeding Pages | Conference Theme |
| 13:00 - 13:15 | CALCULATING FIRE-INDUCED HEAT FLUX CONTOURS ON CONCRETE TUNNEL LINERS TO EVALUATE STRUCTURAL CONSEQUENCES | <i>Kyle Root, Qi Guo, Spencer Quiel, Clay Naito</i> | 190 | 17 | Applications of Structural Fire Safety Engineering |
| 13:15 - 13:30 | PROGRESSIVE COLLAPSE MECHANISMS OF STEEL-FRAME BUILDINGS DUE TO MOVING FIRES | <i>Erica Fischer, Amit Varma</i> | 191 | 25 | Applications of Structural Fire Safety Engineering |
| 13:30 - 13:45 | FIRE-INDUCED PROGRESSIVE COLLAPSE OF PLASCO BUILDING IN TEHRAN | <i>Amir Saedi Daryan, Hesam Ketabdari, Mahmood Yahyai, Mohammed Ali Morovat, Michael Engelhardt</i> | 197 | 33 | Applications of Structural Fire Safety Engineering |
| 13:45 - 14:00 | COLLAPSE ANALYSIS OF THE PLASCO TOWER USING OPENSEES | <i>Hamzeh Hajiloo, Liming Jiang, Asif Usmani, Mark Green</i> | 214 | 41 | Applications of Structural Fire Safety Engineering |
| 14:00 - 14:15 | DESIGN FIRES FOR PERFORMANCE-BASED FIRE ENGINEERING OF BRIDGES | <i>Jiayu Hu, Xu Dai, Asif Usmani, Ricky Carvel</i> | 83 | 3 | Applications of Structural Fire Safety Engineering |
| 14:15 - 14:30 | STRUCTURAL DESIGN OF TALL BUILDINGS UNDER MULTI-STOREY FIRES | <i>Graeme Flint, Panagiotis Kotsovinos, Yavor Panev, Peter Woodburn</i> | 181 | 11 | Applications of Structural Fire Safety Engineering |
| 14:30 - 14:45 | EXPERIMENTAL FIRE-SIMULATORFOR POST-FLASHOVER COMPARTMENT FIRES | <i>Daniel Brandon, Joachim Schmid, Joseph Su, Matthew Hoehler, Birgit Östman, Amanda Kimball</i> | 217 | 299 | Timber Structures and Fire Protection Materials |
| 14:45 - 15:15 | | Coffee Break/Poster Session (Gallery Outside: Britannia room floor 5 & The Bridge floor 6) | | | |
| 15:15 - 17:00 | | Session 2-D.1: Steel Structures (Titanic Suite) Co-Moderators: To be announced | Paper ID | Proceeding Pages | Conference Theme |
| 15:15 - 15:30 | DEVELOPING FRAGILITY CURVES & ESTIMATING FAILURE PROBABILITIES FOR PROTECTED STEEL STRUCTURAL ELEMENTS SUBJECT TO FULLY DEVELOPED FIRES | <i>Danny Hopkin, Ruben Van Coile, Ian Fu</i> | 135 | 771 | Steel Structures |
| 15:30 - 15:45 | STABILITY CHECK OF TAPERED STEEL BEAMS IN FIRE | <i>Carlos Couto, Élio Maia, Paulo Vila Real, Nuno Lopes</i> | 149 | 779 | Steel Structures |
| 15:45 - 16:00 | EFFECTIVENESS OF STIFFENERS ON THE SHEAR CAPACITY OF STEEL WEB PLATES AT AMBIENT AND ELEVATED TEMPERATURES | <i>Veronica Boyce, Jonathan Glassman, Maria Garlock</i> | 166 | 796 | Steel Structures |
| 16:00 - 16:15 | EXPERIMENTAL ANALYSIS OF THE INFLUENCE OF CREEP ON FIRE-EXPOSED STEEL AND ALUMINIUM COLUMNS | <i>Neno Torić, Ivica Boko, Vladimir Divić, Ian W. Burgess, Marko Goreta</i> | 18 | 619 | Steel Structures |
| 16:15 - 16:30 | THERMO-MECHANICAL BEHAVIOUR OF STRUCTURAL STAINLESS STEEL FRAMES IN FIRE | <i>MIAN ZHOU, Rui Cardoso, Hamid Bahai, Asif Usmani</i> | 225 | 843 | Steel Structures |
| 16:30 - 16:45 | CROSS-SECTION RESISTANCE OF SLENDER STAINLESS STEEL I PROFILES IN CASE OF FIRE | <i>Nuno Lopes, Carlos Couto, Jorge Azevedo, Paulo Vila Real</i> | 186 | 819 | Steel Structures |

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|-----------------------------|--|--|-----------------|-------------------------|---|
| 16:45 - 17:00 | IMPLICATION OF THE END CONNECTION TYPE OF STEEL BEAMS ON THE CRITICAL/LIMITING TEMPERATURE EQUATIONS | <i>Jashnav Pancheti, Arul S Jayachandran</i> | 196 | 827 | Steel Structures |
| 15:15 - 17:00 | Session 2-D.2: Steel Structures & Composite Structures (Olympic Suite) Co-Moderators: To be announced | | Paper ID | Proceeding Pages | Conference Theme |
| 15:15 - 15:30 | DIRECT STRENGTH METHOD FOR CALCULATING DISTORTIONAL BUCKLING RESISTANCE OF COLD-FORMED THIN-WALLED STEEL BEAMS WITH NON-UNIFORM ELEVATED TEMPERATURES | <i>Mutiu Alabi-Bello, Yong Wang</i> | 204 | 835 | Steel Structures |
| 15:30 - 15:45 | CHARACTERISING THE THERMOMECHANICAL RESPONSE OF COLUMNS SUBJECT TO LOCALISED FIRES | <i>Yavor Panev, Teodor Sofroniev, Luke Bisby, Panagiotis Kotsovinos, Graeme Flint</i> | 184 | 811 | Steel Structures |
| 15:45 - 16:00 | PROGRESSIVE COLLAPSE OF BRACED STEEL FRAMED STRUCTURES EXPOSED TO FIRE | <i>Jian Jiang, Guo-Qiang Li</i> | 52 | 687 | Steel Structures |
| 16:00 - 16:15 | SHEAR ANALYSIS OF CLIPPED STEEL WEBS IN FIRE AND AMBIENT CONDITIONS | <i>Veronica Boyce, Maria Garlock</i> | 164 | 787 | Steel Structures |
| 16:15 - 16:30 | EFFECTS OF TOPCOAT ON INSULATION OF INTUMESCENT COATING FOR FIRE PROTECTION OF STEEL STRUCTURES | <i>Qing Xu, Guo-Qiang Li, Xiao Zhao, Xing-Yuan Zhao</i> | 103 | 747 | Steel Structures |
| 16:30 - 16:45 | PERFORMANCE OF INTUMESCENT FIRE PROTECTION COATINGS ON STEEL TENSION ROD SYSTEMS | <i>Mai Häßler, Dustin Häßler, Sascha Hothan, Simone Krüger</i> | 38 | 649 | Steel Structures |
| 16:45 - 17:00 | FIRE PERFORMANCE OF LONG-SPAN COMPOSITE BEAMS WITH GRAVITY CONNECTIONS | <i>Lisa Choe, Selvarajah Ramesh, Mina Seif, Matthew Hoehler, William Grosshandler, John Gross, Matthew Bundy</i> | 206 | 601 | Composite Structures |
| 19:00 - 22:00 | Dinner (City Hall Belfast) | | | | |
| Friday, June 8, 2018 | | | | | |
| 07:00 - 08:00 | Continental Breakfast (The Bridge, Floor 6, Titanic Belfast) | | | | |
| 08:00 - 09:15 | Session 3-A: Timber Structures and Fire Protection Materials, Concrete Structures & Composite Structures (Titanic Suite) Co-Moderators: To be announced | | Paper ID | Proceeding Pages | Conference Theme |
| 08:00 - 08:15 | BEHAVIOR OF CIRCULAR CONCRETE-FILLED DOUBLE-SKIN, DOUBLE-TUBE AND INNER RING TUBULAR COLUMNS SUBJECTED TO FIRE | <i>Aline Camargo, João Paulo Rodrigues, Ricardo Fakury, Tiago Pires</i> | 48 | 521 | Composite Structures |
| 08:15 - 08:30 | NUMERICAL MODEL FOR FIRE RESISTANCE EVALUATION OF STEEL REINFORCED POLYMER STRENGTHENED CONCRETE BEAMS | <i>Pratik Bhatt, Venkatesh Kodur, Rami Haweeleh, Nasser Al-Nuaimi, Jamal Abdalla</i> | 127 | 107 | Concrete Structures |
| 08:30 - 08:45 | FIRE TESTS TO ASTM E119 ON FULL-SIZE GLULAM BEAM TO COLUMN CONNECTIONS | <i>David Barber</i> | 56 | 209 | Timber Structures and Fire Protection Materials |
| 08:45 - 09:00 | PERFORMANCE OF INTUMESCENT FIRE PROTECTION COATINGS ON STEEL TENSION ROD SYSTEMS | <i>Mai Häßler, Dustin Häßler, Sascha Hothan, Simone Krüger</i> | 38 | 649 | Steel Structures |
| 09:00 - 09:15 | FIRE SAFETY CHALLENGES OF TALL WOOD BUILDINGS: LARGE-SCALE CROSS LAMINATED TIMBER COMPARTMENT FIRE TESTS | <i>Matthew Hoehler, Joseph Su, Pier-Simon Lafrance, Matthew Bundy, Amanda Kimball, Daniel Brandon, Birgit Östman</i> | 84 | 249 | Timber Structures and Fire Protection Materials |
| 9:15 - 9:45 | Coffee Break (Gallery Outside: Britannia room floor 5 & The Bridge floor 6) | | | | |
| 9:45 - 11:00 | Session 3-B.1: Timber Structures and Fire Protection Materials (Titanic Suite) Co-Moderators: To be announced | | Paper ID | Proceeding Pages | Conference Theme |
| 9:45 - 10:00 | THERMAL CHARACTERISATION AND FIRE PERFORMANCE OF PCM-PLASTERBOARDS | <i>Sayilacksha Gnanachelvam, Mahen Mahendran, Anthony Ariyanayagam, Poologanathan Keerthan</i> | 33 | 193 | Timber Structures and Fire Protection Materials |
| 10:00 - 10:15 | FIRE-RETARDANT COATINGS FOR CONCRETE SUBSTRATE: A COMPARISON BETWEEN ONE-DIMENSIONAL AND TWO-DIMENSIONAL HEAT TRANSFER | <i>Yan Hao Ng, Aravind Dasari, Kang Hai Tan</i> | 50 | 201 | Timber Structures and Fire Protection Materials |
| 10:15 - 10:30 | A METHODOLOGY FOR QUANTIFYING FIRE RESISTANCE OF EXPOSED STRUCTURAL MASS TIMBER ELEMENTS | <i>David Barber, Lizzie Sieverts, Robert Dixon, Jarrod Alston</i> | 57 | 217 | Timber Structures and Fire Protection Materials |
| 10:30 - 10:45 | NUMERICAL MODEL FOR THE FIRE PROTECTION PERFORMANCE OF INTUMESCENT COATINGS EXPOSED TO NATURAL FIRES | <i>Waldemar Weisheim, Peter Schaumann, Lisa Sander, Jochen Zehfuß</i> | 65 | 225 | Timber Structures and Fire Protection Materials |
| 10:45 - 11:00 | FIRE RESISTANCE OF TIMBER FRAME ASSEMBLIES WITH CAVITIES PARTIALLY FILLED BY INSULATION MATERIALS | <i>Mattia Tiso, Alar Just</i> | 76 | 233 | Timber Structures and Fire Protection Materials |

| 9:45 - 11:00 | | Session 3-B.2: Composite Structures (Olympic Suite) Co-Moderators: To be announced | | Paper ID | Proceeding Pages | Conference Theme |
|---|---|---|--|----------|------------------|---|
| 9:45 - 10:00 | EXPERIMENTAL AND NUMERICAL INVESTIGATIONS ON THE LOAD BEARING BEHAVIOUR OF AN INNOVATIVE PRESTRESSED COMPOSITE FLOOR SYSTEM UNDER A NATURAL FIRE SCENARIO | <i>Peter Schaumann, Patrick Meyer, Martin Mensinger, Suet Kwan Koh</i> | | 136 | 553 | Composite Structures |
| 10:00 - 10:15 | FIRE PERFORMANCE OF STEEL REINFORCED ULTRA HIGH TOUGHNESS CEMENTITIOUS COMPOSITES BEAM | <i>Chaojie Sun, Qinghua Li, Junfeng Lu, Shilang Xu</i> | | 21 | 481 | Composite Structures |
| 10:15 - 10:30 | NUMERICAL AND EXPERIMENTAL INVESTIGATION OF THE STRUCTURAL BEHAVIOR OF PERFORATED BEAMS EXPOSED TO HYDROCARBON FIRES IN OFFSHORE PLATFORMS | <i>Hooman Atefi, Ali Nadjai, Faris Ali</i> | | 25 | 489 | Composite Structures |
| 10:30 - 10:45 | EXPERIMENTAL STUDY OF A STEEL-CONCRETE COMPOSITE BRIDGE UNDER FIRE | <i>José Alós-Moya, Ignacio Paya-Zaforteza, Antonio Hospitaler</i> | | 26 | 497 | Composite Structures |
| 10:45 - 11:00 | EXPERIMENTAL INVESTIGATION OF POST-TENSIONED CONCRETE BRIDGE BEAMS EXPOSED TO HYDROCARBON FIRE | <i>Xi Qiang Wu, Francis Tat Kwong Au, Jing Li</i> | | 27 | 505 | Composite Structures |
| 11:00 - 11:30 Coffee Break (Gallery Outside: Britannia room floor 5 & The Bridge floor 6) | | | | | | |
| 11:30 - 12:30 | | Session 3-B.3: Timber Structures and Fire Protection Materials (Titanic Suite) Co-Moderators: To be announced | | Paper ID | Proceeding Pages | Conference Theme |
| 11:30 - 11:45 | THE USE OF FURNACE TESTS TO DESCRIBE REAL FIRES FOR TIMBER STRUCTURES | <i>Joachim Schmid, David Lange, Johan Sjöström, Daniel Brandon, Michael Klippel, Andrea Frangi</i> | | 81 | 241 | Timber Structures and Fire Protection Materials |
| 11:45 - 12:00 | INVESTIGATION OF DIFFERENT TEMPERATURE MEASUREMENT DESIGNS AND INSTALLATIONS IN TIMBER MEMBERS AS LOW CONDUCTIVE MATERIAL | <i>Reto Fahrni, Joachim Schmid, Michael Klippel, Andrea Frangi</i> | | 99 | 254 | Timber Structures and Fire Protection Materials |
| 12:00 - 12:15 | COMPARISON OF FIRE RESISTANCE OF DAMAGED FIRE PROOFED STEEL BEAMS UNDER HYDROCARBON POOL FIRE AND ASTM E119 FIRE EXPOSURE | <i>Mustafa Mahamid, Ataollah Taghipour Anvari, Ines Torra-Bilal</i> | | 131 | 265 | Timber Structures and Fire Protection Materials |
| 12:15 - 12:30 | IMPROVEMENTS TO THE COMPONENT ADDITIVE METHOD | <i>Katrin Nele Mäger, Alar Just, Andrea Frangi</i> | | 156 | 283 | Timber Structures and Fire Protection Materials |
| 11:30 - 12:30 | | Session 3-B.4: Composite Structures & Concrete Structures (Olympic Suite) Co-Moderators: To be announced | | Paper ID | Proceeding Pages | Conference Theme |
| 11:30 - 11:45 | FIRE BEHAVIOUR OF STEEL REINFORCED CONCRETE FILLED STAINLESS STEEL TUBULAR (SRCFSST) COLUMNS WITH SQUARE HOLLOW SECTION | <i>Qinghua Tan, Leroy Gardner, Bin Chen, Linhai Han, Yaoyuan Zhang</i> | | 44 | 513 | Composite Structures |
| 11:45 - 12:00 | BEHAVIOR OF CFRP-CONCRETE BOND SYSTEM AT ELEVATED TEMPERATURES | <i>Thiago Brazeiro, João Paulo Rodrigues</i> | | 47 | 69 | Concrete Structures |
| 12:00 - 12:15 | NUMERICAL AND EXPERIMENTAL TESTS ON CONCRETE FILLED SQUARE AND RECTANGULAR HOLLOW COLUMNS SUBJECTED TO FIRE | <i>Luís Laím, João Paulo C. Rodrigues, Venkatesh K.R. Kodur</i> | | 62 | 529 | Composite Structures |
| 12:15 - 12:30 | INVESTIGATION OF PARTIAL CONNECTION THEORY ON COMPOSITE BEAMS UNDER FIRE EXPOSURE | <i>Sven Brunkhorst, Jochen Zehfuß, Samuel Pfenning, Martin Mensinger</i> | | 113 | 537 | Composite Structures |
| 12:30 - 13:45 Lunch (The Bridge Floor 6 & Britannia Room Floor 5) | | | | | | |
| 13:45 - 15:15 | | Session 3-C: Timber Structures and Fire Protection Materials & Composite Structures (Titanic Suite) Co-Moderators: To be announced | | Paper ID | Proceeding Pages | Conference Theme |
| 13:45 - 14:00 | KEY GOVERNING FACTORS THAT DEFINE THE FIRE PERFORMANCE OF STRUCTURAL INSULATED PANELS USED IN FLOOR SYSTEMS | <i>Aaron Bolanos, Jose L. Torero, Cristian Maluk</i> | | 130 | 545 | Composite Structures |
| 14:00 - 14:15 | STUDY ON THE USE OF CENOSPHERE-BASED ULTRA-LIGHTWEIGHT CEMENT COMPOSITE FOR ENHANCING FIRE PERFORMANCE OF CONCRETE-FILLED TUBULAR COLUMNS | <i>Wojciech Szymkuć, Piotr Tokłowicz, Adam Glema, Hélder Craveiro</i> | | 174 | 585 | Composite Structures |
| 14:15 - 14:30 | EXPERIMENTAL AND ANALYTICAL INVESTIGATION ON THERMAL PERFORMANCE OF SLIM FLOOR BEAMS WITH WEB OPENINGS IN FIRE | <i>Naveed Alam, Ali Nadjai, Faris Ali, Olivier Vassart, Francois Hanus</i> | | 12 | 473 | Composite Structures |
| 14:30 - 16:00 | | Closing Ceremony (Titanic Suite) | | | | |

| | POSTERS | | Paper ID | Proceeding Pages | Conference Theme |
|----|---|--|----------|------------------|---|
| 1 | SCALING APPROACH FOR STUDYING FIRE RESPONSE OF STEEL BEAMS | <i>Mahmood Yahyai, Abbas Rezaiean, Peter Chang</i> | 42 | 877 | Experimental Research and any Other |
| 2 | EXPERIMENTAL INVESTIGATION ON THE POST-FIRE MECHANICAL PROPERTIES OF STAINLESS STEEL BOLTS A2-70 AND A4-80 | <i>Ying Hu, ShengLin Tang, George Adomako Kumi</i> | 142 | 967 | Experimental Research and any Other |
| 3 | TIMBER AND THE FIRE RESISTANCE FURNACE – A COMPARATIVE STUDY OF THE CONDITIONS IN A FIRE RESISTANCE FURNACE WHEN TESTING COMBUSTIBLE AND NON-COMBUSTIBLE CONSTRUCTION | <i>David Lange, Johan Sjöström, Joachim Schmid, Daniel Brandon</i> | 170 | 989 | Experimental Research and any Other |
| 4 | NUMERICAL Modelling OF THERMAL BEHAVIOUR OF CFRP REINFORCED CONCRETE STRUCTURE EXPOSED TO ELEVATED TEMPERATURE | <i>Phi Long Nguyen, Xuan Hong Vu, Emmanuel Ferrier</i> | 122 | 367 | Numerical Modelling |
| 5 | BEHAVIOUR OF STEEL FRAME STRUCTURES UNDER LOCALISED FIRE INCLUDING PROGRESSIVE COLLAPSE DURING COOLING | <i>Thomas Gernay, Antonio Gamba</i> | 31 | 633 | Steel Structures |
| 6 | FIRE TESTS OF LOAD BEARING DOUBLE STUD LSF WALLS | <i>Harikrishnan Magarabooshanam, Anthony Ariyanayagam, Mahen Mahendran</i> | 32 | 641 | Steel Structures |
| 7 | STUDY ON TEMPERATURE DISTRIBUTION OF WELDED TUBULAR SQUARE JOINTS | <i>Jolanta Bączkiewicz, Mikko Malaska, Sami Pajunen, Markku Heinisuo</i> | 49 | 679 | Steel Structures |
| 8 | RESEARCH ON POST-FIRE LOAD-BEARING CAPACITY ASSESSMENT OF AXIAL RESTRAINED HIGH-STRENGTH STEEL COLUMNS | <i>Guo-Qiang Li, Jia-Rong Miao</i> | 100 | 741 | Steel Structures |
| 9 | FIBRE REINFORCED SHOTCRETE – PRESENCE OF SYNTHETIC MACRO FIBRES AFTER FIRE | <i>Cristian Maluk, Todd Clarke, Andrew Ridout</i> | 155 | 117 | Concrete Structures |
| 10 | DETERMINATION OF RESIDUAL STRENGTH OF NORMAL STRENGTH CONCRETE AFTER THE FIRE | <i>Urška Dolinar, Gregor Trtnik, Tomaž Hozjan</i> | 172 | 133 | Concrete Structures |
| 11 | MODELLING NON-METALLIC TIMBER CONNECTIONS IN FIRE | <i>Ranim Dahli, Martin Gillie, John Gales</i> | 134 | 275 | Timber Structures and Fire Protection Materials |
| 12 | INFLUENCE OF GAS TEMPERATURE DURING COOLING PHASE ON LOAD-BEARING PERIOD OF STRUCTURAL GLUED LAMINATED TIMBER BEAMS EXPOSED TO FIRE | <i>Takeo Hirashima, Yusuke Katakura, Moto Ichikawa, Shungo Ishii</i> | 207 | 291 | Timber Structures and Fire Protection Materials |
| 13 | FIRE BEHAVIOUR OF SLENDER CONCRETE-FILLED STEEL TUBULAR COLUMNS UNDER BIAXIAL BENDING | <i>Ana Espinós, Vicente Albero, Manuel L. Romero, Maximilian Mund, Patrick Meyer, Peter Schaumann, Inka Kleiboemer</i> | 138 | 569 | Composite Structures |
| 14 | NUMERICAL ANALYSIS OF THE THERMAL BEHAVIOUR OF STEEL-TIMBER HYBRID BEAMS IN FIRE SITUATION | <i>Antoine Bereysia, Maxime Audebert, Sébastien Durif, Abdelhamid Bouchaïr</i> | 171 | 577 | Composite Structures |

* A prize will be awarded to the best poster (£100 sponsored by FireSERT)

** A prize will be awarded to the best short presentation (£100 sponsored by FireSERT)