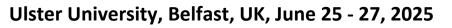


Preliminary Programme

International Fire Safety Symposium 2025 (IFireSS 2025)





Tuesday, June 24, 2025

18:00 - 20:00 Registration and Opening Reception (Belfast Campus, Ulster University)

Hosted by Fire Safety Engineering Research and Technology Centre (FireSERT), Ulster University



| 08:00 - 08:45 | Ragist | Wednesday, June 25, 2025 ration (Ulster University, Block BC, Lower Ground Level, Belfast Campus) | | | |
|---------------|---|--|----------|-----------------|-----------------------------|
| 08:45 - 10:30 | negist | Opening and Keynote Session (Conference Theatre 1) | | | |
| 08:45 - 10:30 | Session 1-A: Conference We Co-Moder | Icome and Keynote Session I | Paper ID | Proceeding Page | Conference Them |
| 08:45 - 09:00 | Conference Welcome | Professor Ali Nadjai | | | |
| 09:00 - 09:20 | Fire Safety Design of Building Envelopes. | Dr Piergiacomo Cancelliere | 120 | ТВА | Fire Safety Engineer |
| 09:20 - 09:40 | Cost-Benefit of Performance-Based Design for Structures in Fire | Professor Thomas Gernay | 121 | ТВА | Performance-Based Design |
| 09:40 - 10:00 | The new fire models recently incorporated into the 2nd Generation of Eurocodes. | Professor Nicola Tondini | 122 | ТВА | Fire Models |
| 10:00 - 10:20 | Anyone for a cocktail? Understanding the impact of toxic chemicals on exposure of firemen to post-fire condensate | Dr Svetlana Tretsiakova-McNally | 123 | ТВА | Fire and Chemistry |
| 10:20 - 10:30 | Questions and Answers | | | | |
| 10:30 - 11:00 | | Coffee Break (Lower Ground Floor & Ground Level) | | | |
| 11:00 - 12:30 | Session 1-B.1: Timber/Timber Str Co-Modera | · | Paper ID | Proceeding Page | Conference The |
| 11:00 - 11:15 | Exploring the Use of IBMB Parametric Fire Curves for Predicting Possible Fire Scenarios in a Compartment with Exposed Timber Soffit | Cristian Maluk, Edwin Ayala and Mark Davison | 056 | ТВА | Timber/Timber Stru |
| 11:15 - 11:30 | The implementation of a risk-based approach to upgrading historic timber panel doors | David Brown | 052 | ТВА | Timber/Timber Stru |
| 11:30 - 11:45 | Predicting External Flames Through Vertical Openings in a Compartment with an Exposed Timber Soffit | Edwin Ayala, Mark Davison and Cristian Maluk | 043 | ТВА | Timber/Timber Stru |
| 11:45 - 12:00 | Numerical Modelling of Charring in Engineered Timber | Kathryn Chin and John Gales | 057 | ТВА | Timber/Timber Stru |
| 12:00 - 12:15 | Thermal-structural behavior of wood truss floor assemblies under standard fire conditions | Syed Muhammad Shamaim Ali and Thomas Gernay | 059 | ТВА | Timber/Timber Stru |
| 12:15 - 12:30 | Bending of an innovative timber-concrete composite floor system (BOBÉ) in fire situation | Seddik Sakji, Antoine Bereyziat and Manuel Manthey | 060 | ТВА | Timber/Timber Stru |
| | | | | | Conference The |

| | A study of the effects of incorporating polymeric | Paul Joseph, Thathsarani Kannangara, Maurice Gurrieri and | | | _ Concrete/Concrete |
|---------------|---|---|----------|------------------|---------------------------------|
| 11:00 - 11:15 | components on the spalling behaviour of concrete | Sam Fragomeni | 001 | ТВА | Structures |
| 11:15 - 11:30 | Thermal resistance and life cycle assessment of rubberised geopolymer concrete with recycled aggregates. | Tawzia Manzoor, Asif Hussain Shah and Javed Bhat | 011 | ТВА | Concrete/Concrete Structures |
| 11:30 - 11:45 | Numerical analysis on the load influence for the crack opening on flat slabs exposed to fire | Andreia Fanton, Luiz Carlos de Almeida and Leandro Trautwein | 015 | ТВА | Concrete/Concrete Structures |
| 11:45 - 12:00 | Validation of tensile membrane models against experimental fire tests | Kaijie Zhu, G Charles Clifton and Fanqin Meng | 023 | ТВА | Concrete/Concrete Structures |
| 12:00 - 12:15 | Parent concrete resistance effects on the high-temperature resistance of recycled aggregate concrete | Viktor Hlavička | 028 | ТВА | Concrete/Concrete Structures |
| 12:15 - 12:30 | Post-fire behavior of fiber and rebar reinforced concrete: a state-of-the-art review | Ahmed Farhan Ahnaf Siddique and Katherine A. Cashell | 037 | ТВА | Concrete/Concrete Structures |
| 12:30 - 13:45 | | Lunch (Lower Ground Floor & Ground Level) | | | |
| 13:45 - 15:15 | • | nt Fires I (Conference Theatre 1) derators: TBA | Paper ID | Proceeding Pages | Conference Theme |
| 13:45 - 14:00 | Modelling challenges of peculiar compartment fire dynamics | Tarek Beji | 006 | ТВА | Compartment Fires |
| 14:00 - 14:15 | Evaluating the effects of travelling fires on entire compartment spaces | Naveed Alam and Ali Nadjai | 008 | ТВА | Compartment Fires |
| 14:15 - 14:30 | Performance-Based Fire Engineering Approach for Protecting a Bespoke Steel Flooring Assembly | Shixiong Guo and Ahmed Allam | 009 | ТВА | Compartment Fires |
| 14:30 - 14:45 | Simulation of compartment fires utilizing heat release histories received from scaled- down models of experiments | Zhongcheng Ma, Wei Lu and Jari Puttonen | 016 | ТВА | Compartment Fires |
| 14:45 - 15:00 | A comparison of species yields in ventilation-controlled and fuel-controlled fires using a medium scale compartment with measured global equivalence ratios | Robert Bray, Svetlana Tretsiakova-Mcnally and Jianping Zhang | 017 | ТВА | Compartment Fires |
| 15:00 - 15:15 | Fire resistance alternative solution design of automated vertical warehouses (AVW) | Chiara Crosti, Andrea Marino and Piergiacomo Cancelliere | 019 | ТВА | Compartment Fires |
| 13:45 - 15:15 | | s in Fire (Conference Theatre 2) derators: TBA | Paper ID | Proceeding Pages | Conference Theme |
| 13:45 - 14:00 | The contribution of tensile membrane behaviour in the collapse of world trade centre 7 | G Charles Clifton, Fan-Qin Meng, Steven Hale and Sioeli Kavinga | 024 | ТВА | Case Studies in Fire |
| 14:00 - 14:15 | Analysis on the impact of fire safety regulations on residential housing designs and trends: A Singapore case study | Christopher Tan and Kok Hwa Lim | 027 | ТВА | Case Studies in Fire |
| 14:15 - 14:30 | Fire Investigation of Escalator used in Different Categories of Buildings. | Nazareth Arasan Thatheus, Ali Nadjai, Manu Rajan and Ahmed Allam | 012 | ТВА | Case Studies in Fire |
| 14:30 - 14:45 | Navigating the Fire Engineering Challenges in Retrofit, Expansion, and Conversion | Cristian Maluk and Mark Davison | 045 | ТВА | Case Studies in Fire |
| 14:45 - 15:00 | Design guidance for travelling fire in modern office buildings | Marion Charlier, Ali Nadjai and Olivier Vassart | 038 | ТВА | Case Studies in Fire |
| 15:00 - 15:15 | Investigation on self-heating and self-ignition of biocarbon dusts | Liang Wang, Jørn Bakken and Øyvind Skreiberg | 061 | ТВА | Case Studies in Fire |
| 15:15 - 15:45 | | Coffee Break (Lower Ground Floor & Ground Level) | | | |

| 15:45 - 17:00 | Session 1-D.1: Tunnels and Bridg Co-Moderator | · | Paper ID | Proceeding Pages | Conference The |
|---------------|--|---|----------|-------------------------|----------------------------------|
| 15:45 - 16:00 | Analysis of fire risk patterns in naturally ventilated road tunnels | Imad Obadi and George Hadjisophocleous | 097 | ТВА | Tunnels |
| 16:00 - 16:15 | Predictive Framework for Fire Safety Assessment of Composite Bridges Using CFD, FE Simulations and ANN Modelling | Mustesin Khan, Aatif Khan, Zhuojun Nan, Katherine Cashell and Asif Usmani | 090 | ТВА | Bridges |
| 16:15 - 16:30 | A framework for quantified risk assessment of bridge fire safety | Yavor Panev, Anna Benoit, Eoin O'Loughlin and Graeme Flint | 071 | ТВА | Bridges |
| 16:30 - 16:45 | Structural behaviour of fiber reinforced concrete tunnels exposed to fire | Nunzia Gragiulo, Donatella de Silva and Emidio Nigro | 036 | ТВА | Tunnels |
| 16:45 - 17:00 | A method to calculate heat transfer of cable systems in suspension bridges exposed to tanker fire | Huseyin Saglik, Airong Chen and Rujin Ma | 026 | ТВА | Bridges |
| 15:45 - 17:00 | Session 1-D.2: Steel and Composite Stru Co-Moderator | • | Paper ID | Proceeding Pages | Conference The |
| 15:45 - 16:00 | Behaviour of restrained steel beam at elevated temperature – Part II | Ahmed Allam and Ali Nadjai | 004 | ТВА | Steel Structures |
| 16:00 - 16:15 | Fire resistance of simple steel beam for differentiated safety requirements – Probability-based approach to evaluation | Mariusz Maslak and Michal Pazdanowski | 010 | ТВА | Steel Structures |
| 16:15 - 16:30 | 3D co-rotational beam element for nonlinear dynamic analysis of steel and composite steel-concrete frame structures in fire | Piseth Heng and Bin Zhao | 029 | ТВА | Steel and Composit Structures |
| 16:30 - 16:45 | Behaviour of protected long span cellular beams exposed to elevated temperatures | Klelia Petrou and Ali Nadjai | 005 | ТВА | Steel Structures |
| 16:45 - 17:00 | Fire Behaviour of Beam-Column Connections to CFT Columns with High-Strength Bar-Bundle in the Cores | Constantin Schwendner, Shaghayegh Ameri, Jochen Zehfuß and Martin Mensinger | 050 | ТВА | Steel Structures |
| | | Thursday lune 26, 2025 | | | |
| 08:00 - 09:00 | | Thursday June 26, 2025 Registration (Lower Ground Floor & Ground Level) | | | |
| 08.00 - 09.00 | Section 2. A.1. Wildfings (Co | | | | Conference The |
| 09:00 - 10:30 | Session 2-A.1: Wildfires (Co Co-Moderator | • | Paper ID | Proceeding Page | Comerence me |
| 09:00 - 09:15 | Using artificial intelligence for wildfire prevention in Cyprus | Pericles Cheng, Alexandros Papatheodoulou, Georgios Boustras, Andreas Pamboris, Nicolas Kyriakou, Giorgos Tsapparellas and Andreas Constantinides | 031 | ТВА | Wildfires |
| 09:15 - 09:30 | Simulation-Based Development of Evacuation Protocols for Small Urban Areas Under Wildfire Threats | Shahab Mohammad Beyki, Aldina Santiago, António Gameiro | 035 | ТВА | Wildfires |
| 09:30 - 09:45 | Basic fire management suite for Cyprus & the region-setting the requirements under SEMEDFIRE project | Klelia Petrou, George Boustras, Pierantonios Papazoglou and Cleo Varianou Mikellidou | 047 | ТВА | Wildfires |
| 09:45 - 10:00 | Education in Wildfire Behaviour as a driver for interagency collaboration to solve a growing wildfire problem: The case in the Southeastern Mediterranean. | Carlos Walker-Ravena, Klelia Petrou, Nikolaos Kalogeropoulos, Pierantonios Papazoglou, George Boustras and Guillermo Rein | 063 | ТВА | Wildfires |
| 10:00 - 10:15 | Evaluating Impacts of Visibility in Smoke on Driving Behaviour in Wildfire Evacuations | Hannah Carton, Timothy Young, John Gales and Eric B. Kennedy | 085 | ТВА | Wildfires |
| 10:15 - 10:30 | Wildfire spread modelling using distributed information through autonomous agents | Fabio Alaimo Ponziani and Alberto Tinaburri | 105 | ТВА | Wildfires |
| | Session 2-A.2: Steel and Composite Stru Co-Moderator | | Paper ID | Proceeding Page | Conference Theme |
| | | | | | |

| 09:15 - 09:30 | Fire resistance tests and analysis of plasterboard-encased steel columns under standard conditions | Octavian Lalu, Tom Lennon and Thomas Gernay | 034 | ТВА | Steel and Composite Structures |
|---------------|---|---|----------|------------------|-----------------------------------|
| 09:30 - 09:45 | Performance of CFT columns in fire: A comparative study of different steel cores | Shaghayegh Ameri, Martin Mensinger and Jochen Zehfuß | 041 | ТВА | Steel and Composite Structures |
| 09:45 - 10:00 | Design of Bi-linear Steel Connectors For Fire Loading | Chloe Jeanneret, Kathryn Chin, Matthew Smith, Panagiotis Kotsovinos and John Gales | 054 | ТВА | Steel and Composite Structures |
| 10:00 - 10:15 | Fire design of bolted braced steel connections using component-based finite element method | Ouissam Yessad, Abdelhak Kada, Belkacem Lamri and Frantisek Wald | 062 | ТВА | Steel and Composite Structures |
| 10:15 - 10:30 | A Fire Engineering Approach for Addressing the Challenges with Steelwork Passing Through Compartment Lines | Cristian Maluk and Mark Davison | 064 | ТВА | Steel and Composite Structures |
| 10:30 - 11:00 | | Coffee (Lower Ground Floor & Ground Level) | | | |
| 11:00 - 12:30 | • | d Jet Fires (Conference Theatre 1) derators: TBA | Paper ID | Proceeding Pages | Conference Theme |
| 11:00 - 11:15 | Predicting and Measuring Thermal Runaway Effects on CF-PEEK for Future Composite Battery Enclosures | Margarita Etchegaray-Bello, Leo Heidemann, Klaus Drechsler | 002 | ТВА | Battery Fires |
| 11:15 - 11:30 | Assessing the Efficiency of Fire Extinguishers in Lithium-Ion Battery Fire Scenarios | Edwin Bin Leong Ong, Sheik Anees, Dean Seah, Clarice Lee, Chiew Yung Yang, Justin Tan, Sze Sien Ho, Joyce Ng, Eugene Phng, Hong Haey Tong and Chin Chin Lim | 048 | ТВА | Battery Fires |
| 11:30 - 11:45 | Evaluating toxic and flammable gas generation during AMD-Fires via Full-Scale Fire Tests | Sheik Anees, Dean Seah, Edwin Ong, Clarice Lee, Yang Chiew Yung, Justin Tan, Ho Sze Sien, Tong Hong Haey, Eugene Phng and Chin Chin Lim | 083 | ТВА | Battery Fires |
| 11:45 - 12:00 | Safety challenges in battery energy storage systems: historical analysis study and safety regulations | Vahid Foroughi | 103 | ТВА | Battery Fires |
| 12:00 - 12:15 | Fire performance of a steel pipe-rack under jet fire scenarios | Patrick Covi and Nicola Tondini | 065 | ТВА | Jet Fires |
| 12:15 - 12:30 | Thermal load on structural elements subjected to jet fires | Giulia Mignemi, Mattia Bianchi, Marco Barozzi, Sabrina Copelli and Bruno Dal Lago | 088 | ТВА | Jet Fires |
| 11:00 - 12:30 | | d Industrial Buildings (Conference Theatre 2) derators: TBA | Paper ID | Proceeding Pages | Conference Theme |
| 11:00 - 11:15 | High-rise Residential Lift Evacuation Wait Time Study | Isaac Tan, Oisín Roulstone, Mary Keen and Michael Kinsey | 044 | ТВА | Human Behaviour |
| 11:15 - 11:30 | Evacuation behaviours of children and adolescents during fire drills in school settings | Javad Hashempour and Babak Bahrani | 094 | ТВА | Human Behaviour |
| 11:30 - 11:45 | Stadium Evacuation Egress Behaviour with Alcohol Consumption | Giuseppina Alfarano and John Gales | 099 | ТВА | Human Behaviour |
| 11:45 - 12:00 | Using Systems-Theoretic Process Analysis (STPA) Hazard Analysis to Identify Unsafe Control Actions and Causal Scenarios in Pre-Evacuation | Alvaro Gomes Ferreira, Brian J. Meacham, João Paulo C. Rodrigues and Aline Lopes Camargo | 100 | ТВА | Human Behaviour |
| 12:00 - 12:15 | Numerical study of the influence of steel purlins on fire resistance of protected warehouse structures under standard fire conditions | Pegah Aghabozorgi, Luís Laím and Aldina Santiago | 030 | ТВА | Industrial Buildings |
| 12:15 - 12:30 | Influence of Horizontal Storage Spacing on Fire Dynamics in Rack Configurations | Syed Hasnain, Seng-Kwan Choi and Jianping Zhang | 049 | ТВА | Industrial Buildings |
| 12:30 - 13:45 | | Lunch (Lower Ground Floor & Ground Level) | | | |
| 13:45 - 15:15 | | t Modelling (Conference Theatre 1) derators: TBA | Paper ID | Proceeding Pages | Conference Theme |

| 13:45 - 14:00 | Analysis of fire resistance performance of fire doors using thermo-mechanical model | Bohyuk Lim, Seokwoo Hong, Donghwan Cho, Joowon Lee, Haeyeal Lee and Minkoo Kim | 013 | ТВА | Finite Element Modelling |
|---------------|--|---|----------|------------------|--------------------------|
| 14:00 - 14:15 | Performance of seismically-compatible fin plate joints under fire conditions in a fully composite floor | Fanqin Meng, G. Charles Clifton and Kaijie Zhu | 022 | ТВА | Finite Element Modelling |
| 14:15 - 14:30 | Study of the behaviour of RC shear wall subjected to fire | Dravesh Yadav, Vimal Panara and Gaurav Srivastava | 032 | ТВА | Finite Element Modelling |
| 14:30 - 14:45 | Fire resistance of externally or near-surface mounted shear-reinforced concrete beam-like elements | Tom Molkens, Muhammad Arslan Yaqub and Stijn Matthijs | 055 | ТВА | Finite Element Modelling |
| 14:45 - 15:00 | Effect of local instabilities on the fire performance of high-strength concrete-filled double-skin steel tubular columns | Svetha Venkatachari and Shahzada Junaid | 058 | ТВА | Finite Element Modelling |
| 15:00 - 15:15 | Fire performance of thermal-break precast panels | Francesco Daniele and Bruno Dal Lago | 070 | ТВА | Finite Element Modelling |
| 13:45 - 15:15 | Session 2-C.2: CFD Modelling and Fire F Co-Modera | | Paper ID | Proceeding Pages | Conference Theme |
| 13:45 - 14:00 | Recurrent Neural Network Surrogate Fire Model: BS8414 Forecasting | Sai Pavan Kumar Balabomma, Bogdan Matuszewski and Eleni Asimakopoulou | 018 | ТВА | CFD Modelling |
| 14:00 - 14:15 | A new smoke ventilation strategy for smoke proof stair design in high-rise residential buildings | Jianqiang Mai, Maulik Katkoria and Dharmit Nakroni | 020 | ТВА | CFD Modelling |
| 14:15 - 14:30 | Uncertainties in the application of flashover correlations in fire safety engineering | David Morrisset, Andrea Franchini and Richard Emberley | 025 | ТВА | CFD Modelling |
| 14:30 - 14:45 | Safety distance study using CFD for high-pressure tanks | Acsa Martins, Volodymyr Shentsov, Edson Bortoni, Lucia Garrido Rios, Marcia Baldissera and Jamil Haddad | 051 | ТВА | CFD Modelling |
| 14:45 - 15:00 | Comparison of natural fire simulations with cellulosic, plastic or liquid combustible fuel stored in a large industrial building | Bruno Dal Lago, Mattia Bianchi, Alessandro Lucà, Andrea Nicora and Paride Tucci | 075 | ТВА | CFD Modelling |
| 15:00 - 15:15 | Firefighting systems in buildings: Integrating LIDAR and BIM in the optimization of safety projects with 'BIMSCIP' | Marcelo Franco Porto, João Paulo Correia Rodrigues, Renata Maria Abrantes Baracho Porto and Gabrielle Fernanda Alves da Rocha | 046 | ТВА | Fire Fighting Systems |
| 15:15 - 15:45 | | Coffee Break (Lower Ground Floor & Ground Level) | | | |
| 15:45 - 17:00 | Session 2-D.1: Timber Struct Co-Modera | · | Paper ID | Proceeding Pages | Conference Theme |
| 15:45 - 16:00 | Fire simulation and fire hazard analysis of historic timber buildings | Yu Lu, Xiaobin Song, Baozhuang Zhang and Yunxiao Chen | 003 | ТВА | Timber Structures |
| 16:00 - 16:15 | Building a framework for the fire resilience of mass timber structures | Anne Davidson, Kathryn Chin and John Gales | 066 | ТВА | Timber Structures |
| 16:15 - 16:30 | Large-scale thermomechanical fire tests on hybrid components made of steel and timber | Jan-Gabriel Scheller and Jochen Zehfuß | 084 | ТВА | Timber Structures |
| 16:30 - 16:45 | Mechanical behaviour of Glulam samples subjected to thermal and moisture gradients | Hussein Daher, Sabine Caré, Gilles Forêt and Loïc Payet | 087 | ТВА | Timber Structures |
| 16:45 - 17:00 | Performance of modular timber assembly in fire conditions | Manu Rajan, Ali Nadjai and Nazareth Arasan Thatheus | 014 | ТВА | Timber Structures |
| 15:45 - 17:00 | Session 2-D.2: Other Steel Stru Co-Moder | · | Paper ID | Proceeding Pages | Conference Theme |
| 15:45 - 16:00 | Performance of steel frames with friction joints under fire | Ana Francisca Santos, Aldina Santiago, Iolanda Vaz Moreno | 072 | ТВА | Steel Structures |
| 16:00 - 16:15 | Thermal and mechanical modelling of loadbearing LSF walls for fire resistance design under two-sided fire exposure | Iziengbe Inerhunwa, Danny Hopkin and Ian Fu | 074 | ТВА | Steel Structures |
| | | | | | |

| 16:15 - 16:30 | Computational modelling of steel gravity frames with composite floor systems in fire | Mohammed Morovat, Joseph Main, Jonathan Weigand, Fahim Sadek and Long Phan | 076 | ТВА | Steel Structures |
|--------------------------------|--|---|----------|-------------------------|--------------------|
| 16:30 - 16:45 | Feasibility study of 3-D numerical modelling of mixed use multistorey building | Donatella De Silva, Ali Nadjai and Ahmed Allam | 077 | ТВА | Steel Structures |
| 16:45 - 17:00 | Thermo-mechanical analysis of walling systems using advanced finite element method | Ali Nadjai, Naveed Alam and Michael Gillespie | 079 | ТВА | Steel Structures |
| 19:00 - 22:00 | | nference Dinner, International Convention & Exhibition Centre (ICC), Belfast. | | | |
| | | | | | |
| 00.00 | | Friday, June 27, 2025 | | | |
| 08:00 - 09:00 | Cossion 2 A 1. Evacuimon | Registration (Lower Ground Floor & Ground Level) | | | Conference Theme |
| 09:00 - 10:30 | • | tal Work (Conference Theatre 1) derators: TBA | Paper ID | Proceeding Pages | Comerence memo |
| 09:00 - 09:15 | Evolving Fire Loads: Implications for Ignition Times and Safety in Residential Settings Post-COVID-19 | Mostafa Jafarian and Simon Santamaria | 033 | ТВА | Experimental Work |
| 09:15 - 09:30 | Effectiveness of low carbon repair techniques for restoring the flexural and dynamic performance of fire-damaged reinforced concrete T-beams | Muhammad Noman, Muhammad Yaqub, Naveed Alam, Muhammad Fahad | 039 | ТВА | Experimental Work |
| 09:30 - 09:45 | Experimental investigation on the combustion properties of PE blends incorporating different mineral fire retardant powders | Linda Vitaloni, Diego Tirelli, Lucia Campanelli, Marcello Canavese and Bruno Dal Lago | 040 | ТВА | Experimental Work |
| 09:45 - 10:00 | Energy distribution in a large-scale structural fire test | Xu Dai and Stephen Welch | 069 | ТВА | Experimental Work |
| 10:00 - 10:15 | Mechanical Properties of Gypsum Board Exposed to Thermal Loading | Rafael Castillo, Alan Zhang and Richard Emberley | 073 | ТВА | Experimental Work |
| 10:15 - 10:30 | Characterization of combustion of composite cladding core materials through experimental and computer simulations | Dharmit Nakrani, Tejas Wani, Gaurav Srivastava and Jianqiang Mai | 082 | ТВА | Experimental Work |
| 09:00 - 10:30 | | dings &n Masonry Structures (Conference Theatre 2) | Paper ID | Proceeding Pages | Conference Theme |
| | Co-Mo- | derators: TBA | | | Machine Learning |
| 09:00 - 09:15 | and YOLOV11 for fire sign detection to optimize safety project modelling with "BIMSCIP" | Marcelo Franco Porto, João Paulo Correia Rodrigues, Renata Baracho and Rafael Augusto de Souza | 042 | ТВА | Machine Learning |
| 09:15 - 09:30 | Machine Learning Driven Performance-Based Design for Structural Fire Analysis | Amelia Parker, Annika Matherson, Aatif Khan, Zhoujun Nan and Mustesin Khan | 053 | ТВА | Machine Learning |
| 09:30 - 09:45 | Historical building pathologies after fire in Brazil | Luana Ercan, João Paulo Rodrigues and Cynara Bremer | 067 | ТВА | Historic Buildings |
| 09:45 - 10:00 | Rehabilitation of historical buildings after fire in Brazil | Luana Ercan, João Paulo Rodrigues and Cynara Bremer | 068 | ТВА | Historic Buildings |
| 10:00 - 10:15 | Lessons learnt from fire performance of historic timber structures | Panagiotis Kotsovinos and Catherine Papanicolaou | 096 | ТВА | Historic Buildings |
| 10:15 - 10:30 | Multi-scale analysis of damage mechanisms in limestone masonry subjected to high temperatures | Victor Tadie, Eleni Tsangouri, Javad Eslami, Anne Lise Beaucour and Albert Noumowe | 104 | ТВА | Masonry Structures |
| 10:30 - 11:00 | | Coffee Break (Lower Ground Floor & Ground Level) | | | |
| 11:00 - 12:30 | | ires, Case Studies &FEM (Conference Theatre 1) derators: TBA | Paper ID | Proceeding Pages | Conference The |
| | | Marina Camello, João Paulo Rodrigues and Julieta Maria | 080 | ТВА | Green Roofs |
| 11:00 - 11:15 | Fire Safety of Green Roofs – A Review | António | | | |
| 11:00 - 11:15 11:15 - 11:30 | Fire Safety of Green Roofs – A Review Fire Tests on Green Roof Solutions | António Marina Camello, João Paulo Rodrigues and Julieta Maria António | 081 | ТВА | Green Roofs |

| 11:45 - 12:00 | Fire resistance of reinforced concrete structures utilising reinforcement couplers | Ahmed Elsharkawi | 102 | ТВА | Case Studies &FEM |
|---------------|--|--|----------|-------------------------|-------------------------------------|
| 12:00 - 12:15 | Probabilistic axial capacity assessment of short circular RC columns in fire | Abdelraouf Kassem, Maged Youssef and Ričardas Zitikis | 089 | ТВА | Case Studies &FEM |
| 12:15 - 12:30 | Fire vulnerability assessment through fragility curves of protected steel industrial buildings | Antonio Cibelli, Donatella de Silva, Andrea Miano and Emidio Nigro | 078 | ТВА | Case Studies &FEM |
| 11:00 - 12:30 | Session 3-B.2: Experimental Work, Case Studies a Co-Moderato | • | Paper ID | Proceeding Pages | Conference Theme |
| 11:00 - 11:15 | Experimental investigation of fiber-reinforced concrete exposed to high-temperature | Tejaswini Sudhakar Junghare, Eleni Toumpanaki and Adam Crewe | 101 | ТВА | Experimental Work |
| 11:15 - 11:30 | Thermal Response and Char Formation of Intumescent Coatings: An Experimental Study | Emily Bond, Adrian Murphy and Scott Millen | 095 | ТВА | Experimental Work |
| 11:30 - 11:45 | Strategies for fire safety and emergency management in nuclear facilities: Challenges and opportunities | Pablo Schuabb and Pedro Luiz Lanzillotta da Fonseca | 093 | ТВА | Case Studies and Design Guidance |
| 11:45 - 12:00 | Concrete degradation under thermomechanical loading | Biswajit Pal and Ananth Ramaswamy | 092 | ТВА | Case Studies and Design Guidance |
| 12:00 - 12:15 | Background on the fire assessment of post-installed reinforcement bars with improved bond splitting behavior | Fatima Ben Mouhou, Nicolas Pinoteau, Omar Al Mansouri, Sebastien Remond and Dashnor Hoxha | 086 | ТВА | Case Studies and Design Guidance |
| 12:15 - 12:30 | Façade fire performance outdoor tests in different environmental conditions. open issues and proposals | Antonio Bonati, Giovanni Cavanna, Riccardo Di Ruzza, Gabriele Pisano, Fabio Alaimo Ponziani and Alberto Tinaburri | 108 | ТВА | Case Studies and Design Guidance |
| 12:30 - 12:45 | A proposal for the optimization of the weighing system in the new European method for façade fire reaction testing | Antonio Bonati, Nicola Caterino, Riccardo Di Ruzza, Gabriele Pisano, Carlo Rainieri and Marta Ziccardi | 109 | ТВА | Case Studies and Design Guidance |
| 12:45 - 14:00 | | Lunch (Lower Ground Floor & Ground Level) | | | |
| 14:00 - 15:20 | Session 3-C: Closing and Keynote Ses Co-Moderato | | Paper ID | Proceeding Pages | Conference Theme |
| 14:00 - 14:20 | Timber Towers? Enhancing Fire Safety and Sustainability in Modern High-Rise Buildings | Professor Guillermo Rein | 124 | ТВА | Timber Structures |
| 14:20 - 14:40 | Burning and Learning – ensuring a fire-safe sustainable built environment through research | Professor Grunde Jomaas | 125 | ТВА | Ultra Lightweight Concrete |
| 14:40 - 15:00 | Behaviour of steel-timber elements and connections in fire and normal situations | Professor Abdel Bouchair | 126 | ТВА | Steel-Timber structures |
| 15:00 - 15:20 | Assessment and mitigation of hydrogen fuelled transport fire hazards in confined spaces | Professor Dmitriy Makarov | 127 | ТВА | Hydrogen Safety |
| | | | | | |

^{*} A prize will be awarded to the best student presentation (£120 sponsored by FireSERT)

** A prize will be awarded to the best student scientific paper (£120 sponsored by FireSERT)