

# SUNDAY

19.00hrs Welcome Buffet

# MONDAY

08.00 Registration opens  
9.00 OPENING

## 9.15 PLENARY SESSION Wildfires and Safety at the Crossroads: Global Lessons and the Path Forward Prof. Guillermo Rein, Imperial College London, UK

	Discussion		Discussion		Discussion
	Break		Break		Break
A.	FACADES	B.	TRANSPORTATION	C.	ACTIVE FIRE PROTECTION
	Fire Spread in Combustible Inner Corners of Façade <b>Robert McNamee</b> , A Just, RISE, Sweden (331)		Modeling the Fire Growth in a Railcar <b>Jonathan Hodges</b> , Jensen Hughes USA, A Troff, M Osburg, Brandschutz Consult Ingenieurgesellschaft Leipzig, Germany (175)		Limits of Passive Fire Protection in Unsprinklered Light Hazard Occupancies [or Buildings] <b>Yogish Gopala</b> , Y Xin, S Dorofeev, Factory Mutual Insurance Company, USA (081)
	Influence of Cladding and Insulation Materials on Façade's External Fire Spread <b>Kate Nguyen</b> , RMIT University, Australia (244)		Review of Emergency Egress and Rescue Challenges in Rail Tunnels <b>Jacqueline Wilmot</b> , BHC, USA (332)		Simulation of a Water Mist Curtain used as a Radiation Shield <b>Bjarne P. Husted</b> , Technical University of Denmark/Danish Institute of Fire and Security Technology, L Schiott Sørensen, Technical University of Denmark, L Laustsen Sørensen, OBH Gruppen, Denmark (298)
	Means for Fire-Safe Green Façade Design on Multi-Storey Buildings <b>Thomas Engel</b> , Technical University of Munich, Germany (180)		Design Considerations for Ensuring Tenability and Safe Evacuation in Urban Roadways Beneath Complex Air-Right Structures <b>Frank Wang</b> , Jensen Hughes, USA, X Chen, California State University, USA (222)		Comparing Drone Swarms and Traditional Methods for Industrial Fire Plume Monitoring and Impact Assessment <b>Brice Berthelot</b> , INERIS, F Guerin, Le Havre Normandy University/GREAH Laboratory, F Germain, N Kerthe, Le Havre Normandy University, France (318)
	Validation of a CFD fire simulation model to predict BS 8414 tests for Cladding Systems <b>Zhaozhi Wang</b> , E Galea, F Jia, J Ewer, University of Greenwich, UK (045)		Coupled Calorimetry – Evolved Gas Analysis For Battery Fire Hazard Assessment <b>Rich Walters</b> , FAA, USA (337)		The Impact on ASET of Smoke Alarm Location during House Fires with Varying Ventilation and Growth Rates <b>Keon Senez</b> , E Weckman, University of Waterloo, P Senez, Senez Consulting/University of Waterloo, Canada (189)
	Discussion		Discussion		Discussion
Lunch					
A.	FACADES	B.	TIMBER	C.	ACTIVE FIRE PROTECTION
	Case Study: Reconstruction of the Valencia Tower Fire, Based on Material Testing and Numerical Modelling <b>E Guillaume</b> , V Drean, M Lago, C Sautot, Efectis, France (129)		Flaming and Smouldering Fires in Mass Timber Compartments: CodeRed Retrospective and Research Gaps <b>Harry Mitchell</b> , G Rein, R Amin, Imperial College London, P Kotsovinos, J Schulz, Arup, London, UK (192)		An Improved Method for Assessing External Fire Spread Risk in the UK <b>Ian Fu</b> , I Inerhunwa, D Hopkin, OFR Consultants, UK (336)
	Fire Safety in Sustainable Housing: Insights from Recent Building Envelope Fires <b>Johan Van Der Graaf</b> , L De Witte, M Kobes, M Leene Netherlands Institute for Public Safety, Netherlands (122)		Timber Structural Loads on Trial: Design vs. Experiments in Ambient and Fire Conditions <b>Antonela Colic</b> , L Bisby, University of Edinburgh, UK, F Wiesner, The University of British Columbia, Canada, M Spearpoint, D Hopkin, OFR Consultants, UK (238)		Pending
	Fire Performance Evaluation of Building Integrated Photovoltaic (BIPV) Façade Systems using ANSI/FM 4411 Standard in Inactive and Maximum Power Charged States <b>Gaurav Agarwal</b> , D Zeng, Y Wang, FM Research Division, USA (325)		Performance Based Design and Stochastic Analysis to Determine the Reliability of Buildings in Fire. Comparison of Different Typologies of Dwellings with Mass Timber Structure Exposed to Fire <b>François Consigny</b> , M Manthey, CSTB, J Kruppa, Poissy, C Douthe, Université Gustave Eiffel, R Leroy, ENSA Paris Malaquais, France (205)		Interaction of Longitudinal Ventilation and Deluge Fire Suppression Systems in Road Tunnel <b>Jakub Bielawski</b> , W K Cheung, Building Research Institute, Poland/ Hong Kong Polytechnic University, D Luan, Hong Kong Polytechnic University/Central South University, China, B Racięga, Baltic Fire Laboratory, Poland, X Huang, Hong Kong Polytechnic University, W Węgrzyński, Building Research Institute, Poland, Poland (173)
	Experimental and Numerical Investigation of Cedar Façade Flame Spread with Respect to Sidewall, X Sun, <b>Hideki Yoshioka</b> , T Noguchi, The University of Tokyo, Japan, Y Nishio, Building Research Institute, M Kanemastu, Tokyo University of Science, Japan B Zhou, China University of Mining & Technology, China (006)		Experimental and Numerical Study of Fire Behavior in a Large Compartment with Composite Concrete Timber Ceiling <b>Bouaza Lafdal</b> , M Heidari, F Robert, CERIB Fire Testing Centre, France (187)		Fire Protection of Large-Diameter Ducts Using Sprinklers <b>Hamed Farmahini Farahani</b> , B Ditch, Y Xin, FM Research Division, USA (014)

	Investigating the Fire Behaviour of Wooden Slat or Rib Constructions: Influence of Dimensions and Spacing <b>Konrad Wilkens</b> , P van Hees, Lund University, Sweden, M Pauner, Danish Institute of Fire and Security Technology, Denmark (046)		Experimental Investigation on Timber Charring Rate in Standard, and Custom Parametric and Traveling Fire Time-Temperature Curves, <b>W Węgrzyński, J Bielawski, Piotr Turkowski</b> , Building Research Institute, P Sikora, West Pomeranian University of Technology, Poland (278)		Evaluation of Suppression Performance of High-Expansion Foam Fire-Extinguishing Systems for Pure Car and Truck Carriers <b>Susumu Ota</b> , Japan Ship Technology Research Association, Y Suzuki, S Sakai, Kashiwa Tech Co, Y Oka, Yokohama National University, Japan (084)
	Discussion		A Review of Factors Affecting the Self-Extinction of CLT Compartments Based on Large-Scale Fire Experiments <b>Carmen Gorska</b> , D Hopkin, OFR Consultants, UK (265)		Discussion
	Break		Break		Break
<b>A</b>	<b>FACADES</b>			<b>C</b>	<b>ACTIVE FIRE PROTECTION</b>
	Fire Hazards of Exterior Wall Assemblies Containing Combustible Components – 10 Year Update <b>Alex Webb</b> , N White, CSIRO, Australia, A Kimball, Fire Protection Research Foundation, USA (299)		Timber Session Discussion		Design Approaches for Oxygen Reduction Systems for Warehouse Storage Applications <b>Patrick van Hees</b> , J Aström, Lund University, Sweden, M Nilsson, Zurich Insurance Group, Switzerland, B Meacham, Crux Consulting, USA (041)
		<b>B</b>	<b>INVESTIGATION</b>		
	Assessment of Fire Performance of Facades in a Round Robin using the European Approach <b>Johan Anderson</b> , J Sjostrom, RISE, Sweden, R Chiva, Efectis, France, F Dumont, University of Liege, Belgium, O Lulu, BRE, UK, A Hofmann, BAM, Germany, P Toth, EMI, Hungary (038)		Representative Large-Scale Tests of a Three Storey Balcony Fire Incident <b>Michael Spearpoint</b> , D Hopkin, OFR Consultants, UK, K Chotzoglou, Efectis, UK, D Morrisset, University of Queensland, Australia (035)		Gravity Smoke Vents in Storage Occupancies <b>Alex Krisman</b> , Y Gopala, Y Wang, Y Xin, S Dorofeev, FM Research Division, USA (049)
	Innovative Strategies for Rectifying Combustible Cladding in Existing Buildings <b>Jonathan Barnett</b> , A Estacio, J Millar, FSFPE FIEAust, Australia (062)		Impact of Architectural Finishes on Drywall Fire Patterns <b>M Binte Mannan, N Zefeng Lei Cai, S I Stoliarov, Shuna Ni</b> , University of Maryland, USA (273)		Re-Evaluation of Selected Chemicals with regard to Recommended Firefighting Foams – Updating the ChemInfo Database <b>Julia Backhaus, D Schmitz, R Goertz</b> University of Wuppertal, M Wachsmuth, German Environment Agency - Umweltbundesamt, Germany (163)
	Discussion		Discussion		Discussion
<b>POSTER SESSION A</b>					
19.00	Social Evening – Founders Building				
<b>TUESDAY</b>					
<b>A.</b>	<b>WILDLAND FIRES</b>	<b>B.</b>	<b>CHEMISTRY/FLAME RETARDANTS</b>	<b>C.</b>	<b>FIRE SAFETY ENGINEERING</b>
8.40	Preventing Wildfire Disasters: It Starts With Design <b>Birgitte Messerschmidt</b> , M Steinberg, NFPA, USA (099)	8.40	Fire Retardancy Featuring Sustainability: Food for Thought between Fake Fiction and Future <b>Bernhard Schartel</b> , BAM, Germany (022)	8.40	A Probabilistic Model for the Thermal Response of Gypsum Wallboard <b>Mark McKinnon</b> , M J DiDomizio, G T Bellamy, D Chaudhari, UL Research Institutes, USA (251)
	Wildfire Directional Indicators – The Science and the Practice <b>Vytenis Babrauskas</b> , Fire Science and Technology Inc, K Parker, Parker Fire Services Consulting, USA (025)		Fire Behavior of Intumescent Materials in O2 Rich Environment <b>Serge Bourbigot</b> , University of Lille/Institut Universitaire de France, J Sarazin, University of Lille, France (056)		Predicting External Flames Through Vertical Openings in a Compartment with an Exposed Timber Soffit <b>Edwin Ayala</b> , Semper, M Davison, C Maluk, DAMA, UK (316)
	Wildland Urban Interface Codes <b>Marcelo Hirschler</b> , GBH International, USA (047)		Pending		The Support of European Commission Joint Research Centre (EC JRC) to the Implementation of Fire Safety Engineering for the Built Environment <b>Francesca Sciarretta</b> , A Athanasopoulou, G Tsionis European Commission - JRC.E.3, Italy (324)
	Predicting Heat Flux from Firebrand Piles to Horizontal Surfaces <b>Brian Lattimer</b> , S Wong, Virginia Tech, J L. Hodges, Jensen Hughes, USA (064)		The ongoing debate about Flame Retardants, Fire Safety, Smoke Emissions and Toxicity <b>Adrian Beard</b> , PINFA, Belgium/Clariant, Germany, M Butler, WilliamBlythe, UK, T Esche, BASF, Switzerland, S Kroon, ICL Industrial Products, The Netherlands (253)		A Simple Methodology to Improve the Fire Safety of a Furnished Room <b>Anna Bergstrand</b> , B Sundström, R McNamee, RISE, Sweden (333)
	Discussion		Discussion		Discussion
	Break		Break		Break

A.	WILDLAND FIRES	B.	COMBUSTION/TOXICITY	C.	FIRE DYNAMICS
	Simulation of Firebrand-Driven Wildland-Urban Interface (WUI) Fire Spread at Landscape-Scale <b>Arnaud Trouve</b> , Y Qin, University of Maryland, D Purnomo, M Theodori, M ZamaniAlaei, M Gollner, University of California, C. Lautenberger, CloudFire, USA (296)		Characterization and Assessment of Smoke Emissions from Smouldering Forest Fires: A Combined Experimental and Numerical Approach <b>Kira Piechnik</b> , A Klippel, Otto-von-Guericke-University, A Hofmann, BAM, Germany (027)		High Resolution Predictions of the Sample Heat Flux during a Cone Calorimeter Test <b>Jason Floyd</b> , UL Research Institutes, J Hodges, Jensen Hughes, USA (028)
	Burning Rates of Individual Firebrands on Shredded Paper Beds <b>Savannah Wessies</b> , J.C. Yang NIST, USA (185)		Characterisation of fire gases produced from wood during flaming and non-Flaming combustion in controlled oxygen atmospheres <b>Evalyne Arinaitwe</b> , K Wilkens, M McNamee, J Rex, V Malmborg, J Pagels, Lund University, Sweden (235)		New Methods to Predict the Burning Rate of Unconfined Liquid Fuel Spill Fires <b>Jason Huczek</b> , Marc Janssens, Southwest Research Institute, USA (077)
	Vulnerability Thresholds for Shutters Exposed to Vegetation Fire in WUI <b>Camille Luciani</b> , V Tihay-Felicelli, F Morandini, A Pieri, P-A Santoni, T Barboni, Université de Corse, France (034)		PFAS Detection from MDF Crib Burns with PTFE <b>Aika Davis</b> , R L. Falkenstein-Smith, A Maizel, T G. Cleary, NIST, USA (068)		Automated characterization of radiant heat sources exemplified by the H-TRIS <b>Michael Plagge</b> , Danish Institute of Fire and Security Technology (DBI), Denmark and Lund University, Sweden, D Lindsay, DBI, Denmark, B Husted, DBI/Technical University of Denmark (DTU), Denmark, M Jorgensen, DTU, Denmark, G Fontaine, University of Lille, France, S Bourbigot, University of Lille/Institut Universitaire de France, France, P van Hees, Lund University, Sweden (229)
	Fire Spread Hazards in Humanitarian and Informal Settlements: A Large-Scale Experimental Study <b>Sam Stevens</b> , D Antonellis Kindling Safety, UK, A van Wyk, Kindling Safety, UK, Stellenbosch University, South Africa, David Rush, University of Edinburgh, UK (193)		Gas Emissions from Smoldering Bio-Based Insulation : Insights from Two Experimental Approaches <b>Lydia Hammad</b> , CSTB/ IMT Mines Alès, V Marchetti, S Moularat, R Anton, CSTB, France, R F. Milkalsen, RISE Fire Research, Norway, R Sonnier, IMT Mines Alès, France (247)		Addressing Transient Phenomena in Uncertainty Budgets for Heat Release Rate Measurement Systems <b>Bart Sette</b> , Jensen Hughes, Belgium (301)
	Role of Bulk Density and Ignition Location on Burning Dynamics of Surrogate Vegetative Fuel <b>Eric Mueller</b> , K Sung, A Hamins, R McDermott, NIST, USA (320)		The Nature of Toxicants Moving Across the Layers of Fire Suits <b>Svetlana Tretsiakova- McNally</b> , Y K Chen, J Zhang, A Nadjai, Ulster University, UK (118)		Fire Behaviour and Smoke Explosion in Combustible Compartments <b>Aatif Khan</b> , B Leslie, H Jones, K Nuzum, Z Conventry, University of Canterbury, New Zealand, C Fleischmann, UL Research Institutes, USA (086)
	Discussion		Discussion		Discussion
	Lunch		Lunch		Lunch
A.	WILDLAND FIRES	B.	PYROLYSIS	C.	FIRE DYNAMICS
	Experimental Investigation of Smouldering Behaviour in Natural and Synthetic Peat Samples <b>Hafizha Mulyasih</b> , G Rein, Imperial College London, UK, D Tarasi, A Voulgarakis, Imperial College London/Technical University of Crete, Greece (190)		Uncertainty Quantification and Propagation of Pyrolysis Kinetics Parameters used in Fire Models <b>Morgan Bruns</b> , P Canez, St. Mary's University, I Leventon, NIST, USA (207)		A Preliminary Numerical Assessment of the Interaction between ESFR Sprinklers and Smoke Control Systems In High-Rack Warehouses <b>Borja Rengel</b> , V Drean, E Guillaume, Efectis, France (130)
	<i>PROVISIONAL</i> An Experimental Investigation into the Transition from Thin to Thick Fuels <b>Sara McAllister</b> , M Finney, USDA Forest Service, USA (079)		Measurement of the Average Molecular Formula of Gaseous Pyrolyzates Produced by Combustible Solids <b>Isaac Leventon</b> , A Tripi, R Greene, K McGrattan, NIST, USA (307)		Leveraging AI modelling for FDS with Simvue: monitor and optimise for more sustainable simulations <b>James Panayis</b> , M Field, V Gopakumar, A Lahiff, K Zarebski, A Abraham, United Kingdom Atomic Energy Authority, UK, J Hodges, Jensen Hughes, USA (168)
	Wildfire Emissions from European Boreal Fuels: Effects of Fuel Type and Moisture Content <b>Robert Svensson</b> , J Sjöström, F Vermina Plathner, A Sandinge, P Blomqvist, RISE, Sweden, E Arinaitwe, M McNamee, Lund University, Sweden (335)		Influence of Experimental Conditions and Reaction Mechanism for Modeling of the Thermal Decomposition of Woody Biomass <b>Grayson Bellamy</b> , S Stoliarov, University of Maryland, M McKinnon, UL Research Institutes, USA (289)		The Radiance Method: For Fine Mesh Smoke Measurements <b>Jennifer Ellingham</b> , E Weckman, University of Waterloo, Canada (182)
	Experimental Analysis of Fire Behavior in Pine Forests and Agricultural Fields: Large-Scale Tests conducted within the TREEADS Project <b>Andrea Klippel</b> , L Heydick, K Piechnik, F Köhler, Otto-von-Guericke-Universität Magdeburg, A Hofmann, H Wu, B Klaffke, BAM, Germany (033)		Measurement of the Smoldering and Flaming Heats of Combustion of Vegetative Fuels <b>Isaac Leventon</b> , K De Lannoye, R Greene, NIST, USA (308)		CFD Predictions of Fire Spread over Wood Cribs in Large Open-Plan Compartments under Two Different Ventilation Conditions <b>Chang Liu</b> , University of Edinburgh, X Dai, University of Liverpool, M Ming, S Welch, University of Edinburgh, UK (302)
	Ensemble of Wildfire Models in Probabilistic Trigger Boundaries <b>Nikolaos Kalogeropoulos</b> , H Mitchell, G Rein, Imperial College London, UK (097)		Impact of Surface Fouling on the Accuracy of Schmidt-Boelter Heat Flux Gauge Measurements <b>Matthew J DiDomizio</b> , N G Sauer, B Morrissey, N W Dow, UL Research Institutes, USA (259)		Model for Firebrand Heat and Mass Transfer Using CFD-DEM Approach <b>Debadrita Das</b> , F E Garcia, A Jeffers, University of Michigan, USA (306)

	Discussion		Discussion		Ignition behavior of Hydrogen and its mixtures with Ammonia under varying conditions <b>Dieter Gabel</b> , U Krause, Otto-von-Guericke University Magdeburg, Germany (026)
	Break		Break		Break
<b>A.</b>	<b>RISK</b>	<b>B.</b>	<b>CHEMISTRY/FLAME RETARDANTS</b>		
	Diverse Perspectives for Safer Fire Designs: The Case for Convergence Research <b>Brian Meacham</b> , Crux Consulting, USA, <b>Sandra Vaiculyte</b> , Universidad Nacional Autonoma de Mexico (008)		Detailed Fire Chemistry With Fire Dynamics Simulator <b>Jason Floyd</b> , UL Research Institutes, C Paul, NIST/The George Washington University, R McDermott, NIST, USA (023)		FDYN Session Discussion
	Development of a National-Scale Interoperable Fire Incident Data Platform <b>Craig Weinschenk</b> , J D Evans, UL Research Institutes, USA (292)		Understanding Fuel Transport Through Foam: From Nanoscale Interactions to Macroscale Dynamics <b>Aysenur Ates</b> , R Qiao, B Y Lattimer, Virginia Tech, USA, M D Madsen, T E Long, Arizona State University, USA (210)		<b>C. EDUCATION</b>
	Fire Safety of Lithium-Lead Component Room in Demo Fusion Power Plant <b>Tuula Hakkarainen</b> , T Korhonen, N Verma, VTT Technical Research Centre of Finland, Finland (234)		Characterization of Flammability and Species Yields for PMMA Burning at Constant Equivalence Ratios in a Fire Propagation Apparatus (FPA) <b>Farnaz Beygi Khosroshahi</b> , F Raffan-Montoya, S I Stoliarov, University of Maryland, USA (078)		Innovative Fire Safety Engineering Education Based on Design Thinking Method <b>Dorota Brzezinska</b> , M Brzezinska, M Brzezinski, Lodz University of Technology, Poland (264)
	Environmental Benefits of Early Fire Detection & Suppression <b>Margaret McNamee</b> , R McNamee, Lund University, Sweden, B Meacham, Crux Consulting, USA, F Amon, RISE, Sweden (016)		Screening Flame Spread and Thermal Protection Performance of Fabrics Using Milligram-Scale Samples <b>Thomas Roche</b> , F Raffan-Montoya, S I Stoliarov, University of Maryland, A B Morgan, University of Dayton Research Institute, S kulkarni, R Nagarajan, University of Massachusetts-Lowell R Mosurkal, University of Massachusetts-Lowell/US Army Combat Capabilities Development Command, USA (322)		An Exploratory Study of Social Vulnerability Assessment in Support of Fire & Rescue Service (Frs) Response <b>Camille Geeraert</b> , M McNamee, L Hovart, Lund University, F Amon, RISE, Sweden (159)
	Discussion		Discussion		Discussion
18.00	Conference Close Day 2				
19.00	Social Evening – Royal Ascot				
<b>WEDNESDAY</b>					
<b>A.</b>	<b>TESTING</b>	<b>B.</b>	<b>MATERIALS</b>	<b>C.</b>	<b>HUMAN BEHAVIOUR IN FIRE</b>
8.40	Evaluation of the Effectiveness of Roof Coating for Mitigating Rooftop Photovoltaic Panel Fire <b>Dong Zeng</b> , FM Research Division, T Rodrigue, FM, D Boardman, FM Approvals, USA (258)	8.40	Evaluation of Surface Coatings for Experiments in the Fire Propagation Apparatus <b>Gaurav Agarwal</b> , D Zeng, Y Wang, FM Research Division, USA (326)	8.40	Comparing Behavioural Data Collection Methods for Wildfire Evacuation Drills <b>Enrico Ronchi</b> , A-K Dugstad, Lund University, Sweden, M Berthiaume, N Benichou, Max Kinateter, NRCC, Canada, P Geoerg, Association for the Promotion of German Fire Protection, Germany, S Gwynne, Lund University/ Movement Strategies, UK, Hui Xie, K Kubose-Peutz, Movement Strategies, UK, A Kimball, Fire Protection Research Foundation, USA (36)
	Fire Protection of Stockers in Semiconductor Facilities <b>M. Sitki Ulcay</b> , FM Research, USA (321)		Engineering Classification of Product Fire Hazard <b>Richard Lyon</b> , T Emami, R N Walters, T Salter, FAA, USA (329)		A Framework for Traffic Evacuation Modelling in Wildfire Scenarios <b>Arthur Rohaert</b> , J Wahlqvist, C Johnsson, E Ronchi, Lund University, Sweden (052)
	An Analysis of Sprinkler Performance from Fire Tests of 18650 Lithium-Ion Cells in Plastic Trays Within Rack Storage Test Configurations <b>Benjamin Gaudet, P.E.</b> , UL Solutions; P Friday, The Reliable Automatic Sprinkler Co., USA (262)		Repeatability of Microscale Combustion Calorimeter Data for Layered Materials <b>Marc Janssens</b> , J Huczek, Southwest Research Institute, USA (076)		Evacuation Challenges and Design Considerations for Inward Opening Doors in Fire Emergencies <b>Martin Forssberg</b> , <b>Alexander M Elias</b> , J Lundin, Brandskyddslaget, Hakan Frantzich, Lund University, Sweden (071)
	ASTM E3367: Conception and Development of a New Standard Test based on Cone Calorimetry <b>Isaac Leventon</b> , A Sharma, Ickchan Kim Mauro Zammarano, NIST, USA (188)		Evaluating Variability in the Fire Behavior of multiple version of commercially available PMMA and Identifying a Replacement MaCFP-PMMA <b>Karen De Lannoye</b> , I Leventon, M Heck, NIST, USA (191)		<b>PROVISIONAL</b> Impact of Using Wheelchairs and Carrying Luggage on Egress Performance at Bottlenecks <b>Max Kinateter</b> , NRCC/Carleton University, Canada Carleton University, Canada, Paul Geoerg, Vereinigung zur Forderung des Deutschen Brandschutzes, Germany, A K Boomers, Forschungszentrum Jülich, Germany, M Berthiaume, NRCC/University of Ottawa, Canada, M Boltes, Forschungszentrum Jülich, Germany (172)
	Discussion		Discussion		Discussion
	Break		Break		Break

A.	ELECTRIFICATION	B.	MATERIALS	C.	HUMAN BEHAVIOUR IN FIRE
	Enhancing the Fire Safety of Stationary Lithium-Ion Battery Systems: Solutions for Managing Thermal Runaway Risks <b>Tomohiro Kawai</b> , N Takata, Mitsubishi Chemical Corporation, H Yoshioka, The University of Tokyo, Japan (037)		Composite Fence Flammability and Wind-Driven Fire Spread <b>Erik Johnsson</b> , K Butler, NIST, USA (261)		KISS Nightclub Fire – An Analysis of a Survey Answered by Survivors <b>Rosaria Ono</b> , W Negrisolo, University of Sao Paulo, F Vittorino, Technological Research Institute of Sao Paulo State, Brazil (177)
	Investigation and comparison of the Thermal Runaway Characteristics of Sodium-ion batteries and Li-ion batteries depending on the State of Charge level <b>Florian Köhler</b> , K Amano, U Krause, Otto-von-Guericke-University Magdeburg, Germany (139)		Fire Dynamics and Surface Oxygen Measurement for Vertical, Buoyancy-driven Turbulent Fire Spread <b>Dushyant M Chaudhari</b> , P Dehghani, G Bellamy, UL Research Institutes, USA (279)		When to Stay Put and when to Go: Warnings, Escape Behaviour, Smoke Exposure and Survivability in the Grenfell Tower Fire <b>David Purser</b> , Hartford Environmental Research /University of Central Lancashire, UK (181)
	Fire Test Bench for Simulating EV Battery Thermal Runaway Conditions <b>Igor B Bezerra Rego</b> , G Fontaine, University of Lille, S Bourbigot, Univeristy of Lille/ Institut Universitaire de France, France (166)		Experimental Investigation of Burning Liquids in Reduced Oxygen <b>Joakim Astrom</b> , P van Hees, M Runefors, N Johansson, Lund University, Sweden (060)		Experimental Study on Stairwell Evacuation Dynamics with Low-Speed Evacuees <b>Manabu Tange</b> , Shibaura Institute of Technology, N Funaki, J Yamaguchi, Obayashi Corporation, T Sano, Waseda University, Y Ohmiya, Tokyo University of Science, Japan (221)
	E-bike: Include the Micro-Mobility in Fire Safety Engineering. Case Study of Bike Storage Fire <b>Camille Waharte</b> , T Fateh, Efectis UK/Ireland (184)		Effect of Oxygen Concentration on the Fire Behaviour, Gas and Aerosol Production of an Assembly of Cross-Laminated Timber and Wood Fiber <b>Gaëlle Fontaine</b> , Centrale Lille Institut, A Lamande, University of Paris-Est/University of Lille, V Marchetti, University of Paris-Est, S Bourbigot, Centrale Lille Institut/Institut Universitaire de France, France (147)		Evaluating Donning Performance of Thermal Protective Immersion Suits: Recommended Applications for Passenger Ship Evacuation Models <b>Ria Bruenig</b> , S Erlanda, H Oltedal Western Norway University of Applied Sciences (HVL), E Galea, Western Norway University of Applied Sciences (HVL) /University of Greenwich, UK, B Batalden, Western Norway University of Applied Sciences (HVL)/ UiT The Arctic University of Norway, S Deere, University of Greenwich, UK (061)
	Engineering Safety in EVs: Analysis of Occupant Safety using a multifunctional Real-Scale Model Car <b>Tim Rappsilber</b> , S Krüger, T Raspe, BAM, Germany (164)		Sensitivity Study of Input Parameters in Modeling Flame Spread in Bench-Scale Experiments Using the SPYRO Model in FDS <b>Anna Troff</b> , M Osburg, Brandschutz Consult, Germany, A Belt, L Arnold, Forschungszentrum Jülich, Germany, J Hodges, Jensen Hughes, USA (178)		Integrating Wildfire and Evacuation Models for People-Centric Hazard Mapping <b>Nan Xiang</b> , Helena Morris, A Valencia, B Evans, P Thompson, University of Canterbury, New Zealand (137)
	Discussion		Discussion		Discussion
<b>Lunch</b>					
<b>POSTER SESSION B</b>					
A.	ELECTRIFICATION	B.	ARTIFICIAL INTELLIGENCE	C.	HUMAN BEHAVIOUR IN FIRE
	Fire-Safe Design for Zero-Emission Bus Depots and Public Transport Hubs <b>Margrethe Kobes</b> , J Reinders, M Spoelstra, Netherlands Institute for Public Safety (024)		The Ignition Frequency of Structural Fires in Singapore 2012-2023 A Deep Neural Network Approach <b>Samson Tan</b> , Staarch, Singapore, T T Teoh, Staarch/ Nanyang Technological University, Singapore, P Joseph, K Moinuddin, Victoria University, Australia (012)		Effect of Lighting Conditions in Evacuation Routes on the Visibility Distance for Exit Light <b>Yuki Akizuki</b> , K Hoshino, Y Hori, University of Toyama, H Yamaguchi, Y Deguchi, National Institute for Land and Infrastructure Management, Japan (314)
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