

The 15th International  
Symposium on Fire Safety  
Science



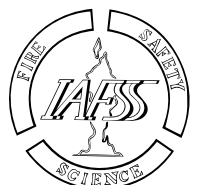
**IAFSS** 2026

7-12 June 2026  
La Rochelle  
France

# Program At a glance

6-12 June  
2026

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## Workshops

Day 1		SAT, 6 June
09:00-19:00	MACFP	Page 09
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## Symposium

Day 1		SUN, 7 June
From 16:00	Opening	
18:30 - 20:30	Welcome reception	

Day 2		MON, 8 June	
09:00 - 09:20	Opening ceremony		
09:20 - 10:20	<b>The Howard W. Emmons Invited Plenary Lecture: Modelling of turbulent combustion in CFD simulations of enclosure fires</b> Chair : Carlos Fernandez-Pello Bart Merci, Ghent University, Belgium Amphitheater		
10:20 - 10:40	Memorial Dedication		
10:40 - 11:10	Coffee Break		
11:10 - 12:30	Session #1 - Ignition and flame spread	Session #1 - Enclosure fire dynamics	Session #1 - Large outdoor fires
Room	Amphitheater	Room 1	Room 2
12:30 - 14:00	Lunch Break		
14:00 - 15:00	<b>Invited Plenary Lecture #1: Intumescence: Past, Present and Future</b> Chair : Thomas Rogaume Serge Bourbigot Université de Lille - Centrale Lille Institut, France Amphitheater		
15:00 - 16:00	Session #2 - Ignition and flame spread	Session #1-1 - Fires in energy systems and industrial installations	Session #2 - Large outdoor fires
Room	Amphitheater	Room 1	Room 2
16:00 - 16:30	Coffee Break		
16:30 - 17:50	Session#1 - Solid pyrolysis and smouldering	Session#1-2 - Fires in energy systems and industrial installations	Session#1 - Material flammability
Room	Amphitheater	Room 1	Room 2
Evening - 19h00-22h00	Early Career Mixer Room 2		

Day 3		TUE, 9 June		
09:00 - 10:00	<b>Invited Plenary Lecture #2: Thermal radiation - From science to engineering</b> Chair : Yi Wang Simo Hostikka, Aalto University, Finland Amphitheater			
10:00 - 10:40	Session #3 - Ignition and flame spread	Session #2 - Material flammability	Session #2-1 - Fires in energy systems and industrial installations	
Room	Amphitheater	Room 1	Room 2	
10:40-11:10	Coffee Break			
11:10 - 12:30	Session #2 - Enclosure fire dynamics	Session #1 - Fire detection and suppression	Session #2-2 - Fires in energy systems and industrial installations	
Room	Amphitheater	Room 1	Room 2	
12:30 - 14:00	Lunch Break			
14:00 - 15:00	<b>Invited Plenary Lecture #3: Ignition, Combustion, and Flame Spread in Wooden Heritage Building Fires</b> Chair : Naian Liu Jie Ji, University of Science and Technology of China, China Amphitheater			
15:00 - 16:00	Session #3 - Large outdoor fires	Session #2 - Fire detection and suppression	Session #1 - Fire risk assessment, performance-based design, and fire forensics	
Room	Amphitheater	Room 1	Room 2	
16:00 - 16:30	Coffee Break			
16:30 - 18:00	Poster Session / Poster area			
Evening - 18:00-20:00	IAFSS Annual General Meeting Amphitheater			

Day 4		WED, 10 June		
09:00 - 10:00	<b>Invited Plenary Lecture #4: The wildfire problem - a path forward</b> Chair : Beth Weckman Sara McAllister, US Forest Services, USA Amphitheater			
10:00 - 10:40	Session #4-1 - Ignition and flame spread	Session #3-1 - Fire detection and suppression	Session #1 - Evacuation, human behaviour, and societal impact of fires	
Room	Amphitheater	Room 1	Room 2	
10:40-11:10	Coffee Break			
11:10 - 12:30	Session #4-2 - Ignition and flame spread	Session #3-2 - Fire detection and suppression	Session #3 - Material flammability	
Room	Amphitheater	Room 1	Room 2	
12:30 - 17:30	Welcome desk • Excursion with Lunch Break			

Day 5		THU, 11 June		
09:00 - 10:00	<b>Invited Plenary Lecture #5: Towards fire hazard evaluation of stationary lithium-ion battery systems: A review</b> Chair : Arnaud Trouve Yi Wang, FM, USA Amphitheater			

Day 5		THU, 11 June	
10:00 - 10:40	Session #5-1 - Ignition and flame spread	Session #3-1 - Enclosure fire dynamics	Session #4-1 - Large outdoor fires
Room	Amphitheater	Room 1	Room 2
10:40-11:10	Coffee Break		
11:10 - 12:30	Session #5-2 - Ignition and flame spread	Session #3-2 - Enclosure fire dynamics	Session #4-2 - Large outdoor fires
Room	Amphitheater	Room 1	Room 2
12:30 - 14:00	Lunch Break		
14:00 - 14:20	PhD Thesis Award Lecture (Europe-Africa) Amphitheater	PhD Thesis Award Lecture (Asia-Oceania) Room 1	PhD Thesis Award Lecture (Americas) Room 2
14:20 - 14:40	Magnusson Early Career Award Lecture Amphitheater	Proulx Early Career Award Lecture Room 1	Structure-fire interactions Session #1-1 Room 2
Day 5		THU, 11 June	
14:40 - 16:00	Session #5 - Large outdoor fires	Session #4-1 - Enclosure fire dynamics	Session #1-2 - Structure-fire interactions
Room	Amphitheater	Room 1	Room 2
16:00 - 16:30	Coffee Break		
16:30 - 17:30	Session #2 - Evacuation, human behaviour, and societal impact of fires	Session #4-2 - Enclosure fire dynamics	Session #2 - Fire risk assessment, performance-based design, and fire forensics
Room	Amphitheater	Room 1	Room 2
19:00 - 00:00	Symposium Banquet		

Day 6		FRI, 12 June	
09:00 - 10:00	Invited Plenary Lecture #6: Unravelling the Mysteries of Fire Chair : Sara McAllister Beth Weckman, University of Waterloo, Canada		
10:00 - 10:40	Session #3 - Fires in energy systems and industrial installations	Session #3-1 - Fire risk assessment, performance-based design, and fire forensics	Session #3-1 - Evacuation, human behaviour, and societal impact of fires
Room	Amphitheater	Room 1	Room 2
10:40-11:10	Coffee Break		
11:10 - 12:30	Session #2-1 - Amphitheater	Session #3-2 - Room 1	Session #3-2 - Room 2
Room	Structure-fire interactions	Fire risk assessment, performance-based design, and fire forensics	Evacuation, human behaviour, and societal impact of fires
12:30 - 14:00	Lunch Break		
14:00 - 15:20	Session#2-1 - Structure-fire interactions	Session #2 - Solid pyrolysis and smouldering	Session #4 - Fire detection and suppression
Room	Amphitheater	Room 1	Room 2
15:20 - 16:00	Farewell reception		



# IAFSS 2026

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## Workshops Program

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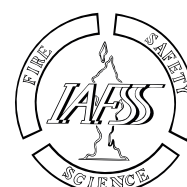
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## Symposium Program

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Sunday, 7 June	15
Monday, 8 June	15-16
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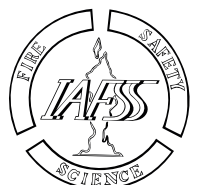
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# Workshops Program

6-7 June  
2026

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# MaCFP

Schedule		Saturday, 6 June - Room 2	
9:00-9:15	Welcome remarks and review of progress in MaCFP (Arnaud Trouvé)		
	Gas Phase Phenomena subgroup		
9:15-10:00	FM-Burner diffusion flames (Ning Ren, Gang Xiong)		
	Presentation of results (30 minutes)		
	Open discussion (15 minutes)		
10:00-10:45	Façade fire (JIS A 1310 fire test) (Ning Ren, Gang Xiong)		
	Presentation of results (30 minutes)		
	Open discussion (15 minutes)		
10:45 - 11:00	Coffee Break		
	Radiative Heat Transfer Phenomena subgroup		
11:00-11:15	Introduction, Phase 1: Benchmark (Simo Hostikka)		
11:15-11:30	Phase 2: Uncoupled simulations (Soroush Rashidzadeh)		
11:30 - 11:45	Phase 3: Coupled simulations (Fabian Brännström)		
11:45-12:00	Spectroscopic experiments for wood (to be determined)		
12:00-12:30	Future plans and open discussion (Fabian Brännström, Simo Hostikka)		
12:30 - 13:30	Lunch Break		
	Condensed Phase Phenomena subgroup		
13:30-13:45	Pyrolysis of a charring material (pine wood) - Introduction (Isaac Leventon, Karen De Lannoye)		
13:45-14:00	Experimental results (Lucie Hasalová, Vojtěch Šálek)		
14:00-14:15	Open discussion (Lucie Hasalová, Vojtěch Šálek)		
14:15-14:30	Modeling results (Morgan Bruns)		
14:30-15:00	Calibration approach / Properties (Morgan Bruns, Abdenour Amokrane)		
15:00-15:30	Model comparison (Morgan Bruns, Abdenour Amokrane)		
15:30-15:45	Coffee Break		
15:45-17:00	Open discussion (Morgan Bruns, Isaac Leventon, Stanislav Stoliarov)		
	Break into groups of 6-10 participants; each group discusses (and takes notes, 1 summary slide) both		
	Shared MaCFP phenomena	One of the following subgroup-specific phenomena	
	Confirm key fire phenomena of interest	Condensed-Phase	
	Retire/continue/start new target cases	Gas-Phase	
	MaCFP coordination/timing	Radiation	
	Commitment to support MaCFP (data, analysis, coordination, etc)		
	New materials		
17:00-19:00	Poster session		

## MaCFP

Schedule		Sunday, 7 June - Room 2	
	<b>Gas Phase and Condensed Phase Phenomena subgroups</b>		
9:00-9:45	<b>Parallel panel fire (FM 4910 fire test) (Lukas Arnold, Kevin McGrattan)</b>		
	Presentation of results (30 minutes)		
	Open discussion (15 minutes)		
9:45-10:30	<b>Corner wall fire (EN 13823 Single Burning Item - SBI - fire test) (Jason Floyd, Franck Richard)</b>		
	Presentation of results (30 minutes)		
	Open discussion (15 minutes)		
10:30 - 10:45	<b>Coffee Break</b>		
10:45-12:00	<b>Open discussion (Isaac Leventon, Arnaud Trouvé)</b>		
	New configurations for coupled condensed- and gas-phase phenomena		
	Target cases for MaCFP-5		
	New fuels (e.g., batteries)		
	New tools (e.g., new diagnostics, AI, etc)		
	<b>Call for volunteers to help manage MaCFP</b>		
	Subgroup co-chairs: help maintaining the IAFSS/MaCFP website and GitHub repository, writing reports, analysis, organizing participation in case studies	Experimentalists: commit to providing new data	Modelers: commit to running specific cases

## AI/ML

Schedule		Sunday, 7 June - Room 5	
13:00-13:05	<b>Talk 0</b> : Introduction to the workshop, agenda, expectations - Speaker: Sarah Scott		
13:05-14:05	<b>Talk 1</b> : Introduction to Machine Learning and Large Language Models - Speaker: Maddalena Rostagno		
14:05-14:50	<b>Discussion Session One, Focus</b> : High-Level Topics		
14:50-15:05	<b>Break</b>		
15:05-15:20	<b>Talk 2</b> : Machine Learning in action on a Fire Science Problem Talk 2.1: A beginner example: ML-Based Kinetic Parameter Inference from Thermogravimetric Analysis - Speaker: Sarah Scott		
15:20-16:05	<b>Talk 2.2</b> : An advanced example: Application of structure-preserving methods to learn conservative reduced-order models - Speaker: Mike Meehan		
16:05-17:00	<b>Discussion Session Two, Focus</b> : Detailed Topics		

# Energy Systems

Schedule	Sunday, 7 June - Room 1
13:00-14:00	<b>Ignition and propagation of fire energy storage systems - BESS focus</b> : what are the conditions for ignition/thermal runaway in battery energy storage systems, and what are the conditions for which thermal runaway will propagate from cell to cell?
14:00-14:50	<b>Failure criteria, heat release rate and methods of calculation for BESS</b> : what can be done to determine criteria of failure and exposure of BESS systems, quantify effectively heat release rates and what methods are effective in calculating different BESS failure scenarios?
14:50-15:00	<b>Break</b>
15:00-16:00	<b>Integration of Energy generation and storage</b> : what hazards are presented by integrating energy generation and storage (PV, BESS, etc.), and how does it compare to other fire problems?
16:00-17:00	<b>Scaling, scientific tools, and limitations</b> : what will be required to go from understanding laboratory-scale energy storage system fires to large scale and complex scenarios?

# LOF&BE

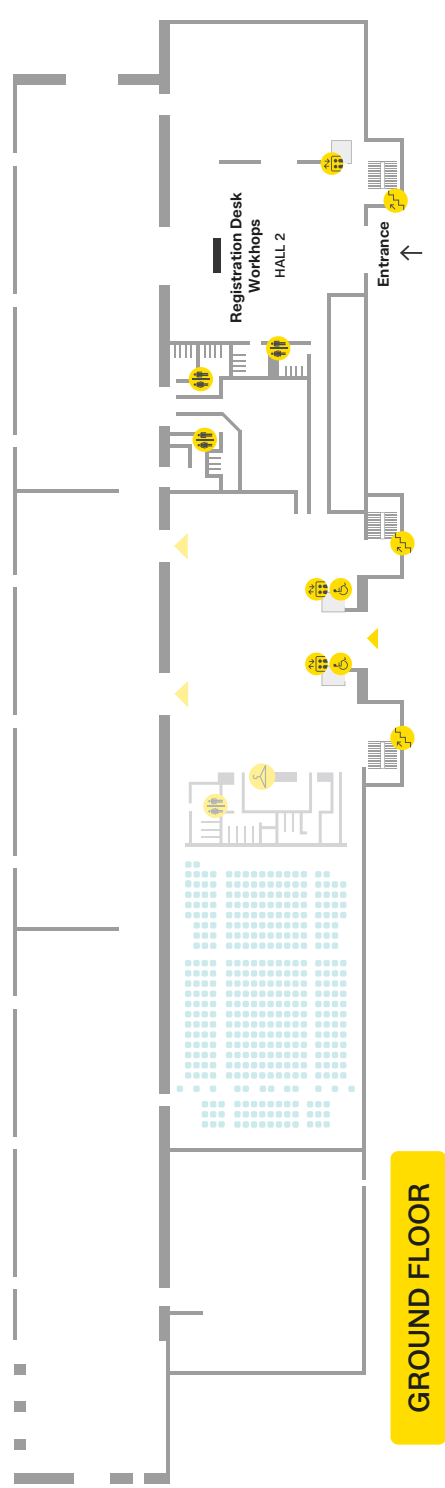
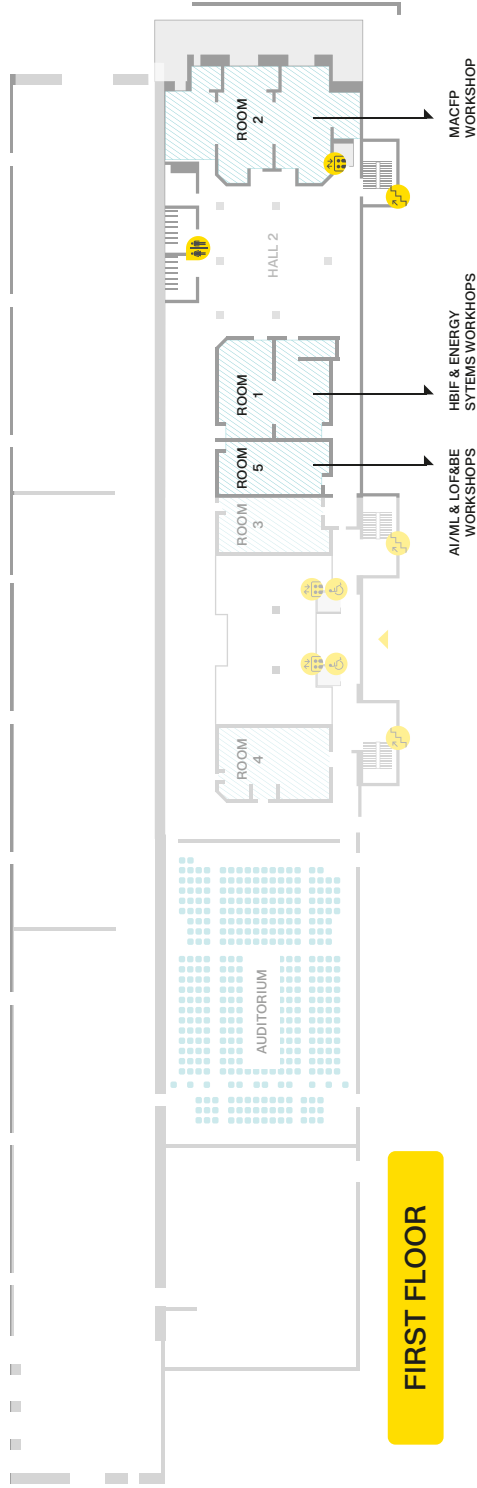
Schedule	Sunday, 7 June - Room 5
8:00-9:00	<b>Ignition Resistant Communities (IRC) sub-group update and discussion</b>
9:00-10:00	<b>Emergency Management and Evacuation (EME) sub-group update and discussion</b>
10:00-10:30	<b>Cone Calorimeter data Comparison (3C) project update and discussion Part 1</b>
10:30-10:45	<b>Break</b>
10:45-12:00	<b>Cone Calorimeter data Comparison (3C) project update and discussion Part 2</b>

# HBiF

Schedule	Sunday, 7 June - Room 1
9:00-9:05	<b>Introduction</b>
9:05-9:15	<b>Webinar series updates</b>
9:15-9:20	<b>Introduction to research roadmap</b>
9:20-9:35	<b>Research Roadmap - Task 1</b>
9:35-9:50	<b>Research Roadmap - Task 2</b>
9:50-10:05	<b>Research Roadmap - Task 3</b>
10:05-10:20	<b>Research Roadmap - Task 4</b>
10:20-10:35	<b>Break</b>
10:35-10:45	<b>Discussion on future activities</b>
10:45-11:15	<b>Discussion on short-term plans for the HBiF group</b>
11:15-11:45	<b>Discussion on long-term plans for the HBiF group</b>



# Workshops Rooms Location Map

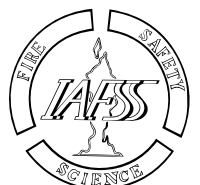


-  Restroom
-  Cloakroom
-  Elevator
-  Disabled Access
-  Floor Access

# Symposium Program

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Day 1		SUN, 7 June	
17:00 - 20:30	Badge pickup & Welcome Reception		

Day 2		MON, 8 June	
09:00 - 09:20	Opening ceremony - Amphitheater		
09:20 - 10:20	<b>The Howard W. Emmons Invited Plenary Lecture: Modelling of turbulent combustion in CFD simulations of enclosure fires</b> Chair : Carlos Fernandez-Pello Bart Merci, Ghent University, Belgium Amphitheater		
10:20 - 10:40	<b>Memorial Dedication</b> Amphitheater		
10:40 - 11:10	Coffee Break		
11:10 - 12:30	<b>Session #1 - Amphitheater</b>	<b>Session #1 - Room 1</b>	<b>Session #1 - Room 2</b>
<b>Topic - Room</b>	<b>Ignition and flame spread</b>	<b>Enclosure fire dynamics</b>	<b>Large outdoor fires</b>
<b>Chairs</b>	<b>David Morrisset</b>	<b>Zihe Gao</b>	<b>Wuquan Cui</b>
11:10 - 11:30	<b>A reduced-order model for turbulence soot radiative emission interaction in non-pre-mixed flames</b> Jean-Louis CONSALVI; Fatiha NMIRA	<b>Exploring fire dynamics of travelling fires in large open compartments with CFD</b> Chang Liu; Xiyue Ming; Xu Dai; Stephen Welch	<b>The Effect of Fuel Structure and Wind Speed on Ignition Behaviour and Fire Spread of Wildland Fuels under Fire-brand Exposure</b> Osman Eissa; Alexander I. Filkov; Juan P. Escobedo; Maryam Ghodrat
11:30 - 11:50	<b>Exploring the uncertainties of thermochemical properties in CFD modelling of flame spread</b> Alexander Snegirev; David Morrisset; Georgios Maragkos; Rory Hadden; Bart Merci	<b>A CFD fire simulation model for external living walls</b> John Ewer; Fuchen Jia; Zhaozhi Wang; Edwin Richard Galea;	<b>Coupling Computer-Vision House Fuel Load Estimation with Fire Spread Simulation in the Wildland-Urban Interface</b> Yifei DING; Nisha Saharan; Negar Elhami-Khorasani; Thomas Gernay; Yuxin Zhang; Xinyan Huang
11:50 - 12:10	<b>Evaporation and piloted ignition in porous media soaked with heptane</b> HANCHAO MA; Weiguang Kong; Grunde Jomaas; Benedetta Anna De Liso; Ernesto Salzano; Hong Huang; Jinlong Zhao	<b>Effects of fire location on flame behavior and self-extinction in the single-end enclosed tunnel</b> Yaolong Yin; Chuangang Fan; Zhisheng Xu; Qiulin Liu; Ding Zeng; Baochao Xie	<b>Transition from point ignition to flame spread in porous fuel beds: Effects of packing ratio</b> Joaquín Ferrer, Clois Fevre; Maria Thomsen; Rodrigo Demarco; Andras Fuentes; A. Carlos Fernandez-Pello; Pedro Reszka
12:10 - 12:30	<b>Boilover in pool fires of partially miscible heptane-methanol and cyclohexane-methanol mixtures</b> En Xie; Rabah Mehaddi; Lucas Terrei; Tarek Beji	<b>Scaling Effects of Tunnel Cross-Sectional Dimensions on Ceiling Jet Thickness and Vertical Temperature Stratification</b> Zihe Gao; Zhuo Jia; Yaqi Fan; Jie Ji	<b>Simulations of Fire-brand-Driven Fire Spread in Landscape-Scale Wildland-Urban-Interface (WUI) and Urban Conflagration Models</b> Yiren Qin; Dwi M.J. Purnomo; Maria Theodori; Maryam Zamanialaei; Chris Lautenberger; Michael Gollner; Arnaud Trouve
12:30 - 14:00	Lunch Break		
14:00 - 15:00	<b>Invited Plenary Lecture #1: Intumescence: Past, Present and Future</b> Chair : Thomas Rogaume Serge Bourbigot Université de Lille - Centrale Lille Institut, France Amphitheater		
15:00 - 16:00	<b>Session #2 - Amphitheater</b>	<b>Session #1-1 - Room 1</b>	<b>Session #2 - Room 2</b>
<b>Topic - Room</b>	<b>Ignition and flame spread</b>	<b>Fires in energy systems and industrial installations</b>	<b>Large outdoor fires</b>

Day 2			
MON, 8 June			
Chairs	Eric Mueller	Jonathan L. Hodges	Alex Filkov
15:00 - 15:20	<b>Machine Learning Accelerated Radiative Transfer Modeling in CFD Fire Simulations</b> Ren Ning; Xiaoyi Lu; Mitchell Daneker; Lu Lu; Yi Wang	<b>Hydrogen Jet Flame Impingement on Titanium Plates at Close Proximity</b> Juan P. Hidalgo, Jeronimo Carrascal, Lucien Gallen, Anaïs Gay, Claire Hribar, Sebastien Rouvreau, Saad Sibawayh	<b>Temperature and Heat Flux Measurements from Firebrand Piles using Color Ratio Pyrometry</b> Elijah Jerome Igweh; Stanislav I. Stoliarov; Peter B. Sunderland
15:20 - 15:40	<b>The Yield Sooting Index (YSI): an alternative to the Laminar Smoke-Point Height to scale the fuel sooting propensity in soot production models</b> Jean-Louis Consalvi; Fatiha Nmira	<b>SBIPV Phase 1. Upward Flame spread over Photovoltaic Façade Claddings: An Initial Comparative Analysis with Conventional Cladding Materials</b> Yoon Ko, Dana Duong, Reidar Stølen, Janne Siren Fjærestad	<b>Modelling Firebrand Generation and Transport from Tall Building Fires</b> Xi Yuan Gwee; Harry Mitchell; Chi Lam Chan; matthew bonner; Guillermo Rein
15:40 - 16:00	<b>Flame structure and near field radiation feedback of inclined ethylene jet fire blocked by barrier wall</b> Xinyu Peng; Fei Tang.; Nannan Zhu; Yujie Lin; Longhua Hu; Jennifer Wen	<b>Experimental evaluation of e-scooters and batteries fires: thermal behaviour and risk of propagation</b> Virginie Dréan, Jérémy Colombiano, Pauline Dias Lopes, Borja Rengel, Mohamad El Houssami, Eric Guillaume	<b>Prediction of Firebrand Transport Using Machine Learning and Physics-Constrained Neural Networks</b> Reita Kameyama; Samuel L. Manzello; Sayaka Suzuki
16:00 - 16:30	Coffee Break		
16:30 - 17:50	Session# 1 - Amphitheater	Session# 1-2 - Room 1	Session# 1 - Room 2
Topic - Room	Solid pyrolysis and smouldering	Fires in energy systems and industrial installations	Material flammability
Chairs	Guillermo Rein	Thomas Rogaume	Sayaka Suzuki
16:30 - 16:50	<b>Thermal modelling of delamination damage induced by high heat flux laser decomposition within 8-ply composite laminate materials</b> Xavier Lamboley; Guillaume Janodet; Nicolas Dellinger; Gillian Leplat; Cédric Huchette	<b>Predicting the Heat Transfer from Burning Battery Energy Storage Systems</b> Jonathan L. Hodges, Stefan M. Kraft, Ankit Sharma, Anil Kapahi	<b>Impact of fuel moisture on chaparral emissions under flaming and smoldering conditions</b> Siyan Wang; Ting Wang; Vic B. May; Wuquan Cui; Jessica M. Oakes; Chiara Bellini; Michael J. Gollner
16:50 - 17:10	<b>Physics-based Model for the Charring of Wood in Timber Compartment Fires</b> Alexander Castagna; Guillermo Rein	<b>Analysis of Dust Explosion Hazards and Risk Assessment of Dust from Biomass Fuel: Wood Pellets</b> Nham Sy Trung Kien, Ritsu Dobashi, Mizuki Shoyam, Choi Kwangseok	<b>An Experimental Investigation of Fire Dynamics in Large-Diameter Industrial Exhaust Ducts and Development of a Scaled Testing Approach</b> Gang Xiong; Gaurav Agarwal; Dong Zeng; Yi Wang
17:10 - 17:30	<b>Coupling of a numerically optimized version of the pyrolysis code Gpyro and the CFD code FDS</b> Youssef Abdelhafiz; Abdenour Amokrane; Serge Bourbigot; Gerald Debenest	<b>Examination of entrainment, combustibility, and heat transfer due to cell venting inside simplified battery energy storage enclosures</b> Michael Meehan; Andrew Kurzawski; John Hewson	<b>Experimental Study of Toxic Chemicals Diffusion through Firefighters Suit Ensembles</b> Hamed Rasouli Sadabad; Svetlana Tretsiakova-McNally; Jianping Zhang; Ali Nadjai
17:30 - 17:50	<b>Understanding the differences in mass loss rate data obtained using fire propagation apparatus and controlled atmosphere pyrolysis apparatus</b> Farid Alinejad; Fernando Raffan-Montoy; Gang Xiong; Stanislav I. Stoliarov	<b>Development of Fire Modeling Methods for Glass-Polymer PV Modules Using Calorimetric and Thermogravimetric Data</b> Dan Duong; Islam Goma; Benjamin Jones; Yoon Ko	<b>Thermal Aging Effect on Pyrolysis and Combustion of XLPE Wires</b> XIAO HUANG; Xinyuan Hu; Li Ma; Jun Zhang; Jinbo Feng; Panpan Li; Xiaojing Yan
Evening - 19h00-22h00	Early Career Mixer Room 2		

Day 3		TUE, 9 June	
09:00 - 10:00	<b>Invited Plenary Lecture #2: Thermal radiation - From science to engineering</b> Chair : Yi Wang Simo Hostikka, Aalto University, Finland Amphitheater		
10:00 - 10:40	<b>Session #3 - Amphitheater</b>	<b>Session #2 - Room 1</b>	<b>Session #2-1 - Room 2</b>
Topic - Room	Ignition and flame spread	Material flammability	Fires in energy systems and industrial installations
Chairs	Yi Wang	Zhengyang Wang	Virginie Drean, Pedro Reszka
10:00 - 10:20	<b>Merging of two opposite-spreading flames on kerosene under parallel and perpendicular wind</b> Bo Li; Yangjin Shi; Xinyan Huang; Asif Usmani	<b>Predicting toxic species generation resulting from external cladding fires</b> Zhaozhi Wang; Fuchen Jia; Edwin Richard Galea; John Ewer	<b>Silica-based Aerogel Fire Extinguishing Agent for Preventing Re-Ignition of NCM Lithium-Ion Batteries and Its Mechanistic Study</b> Yuhui Liu; Yuelei Pan; Xudong Cheng; Heping Zhang; Zun Zhao; Yuhui Wang; Jie Yang
10:20 - 10:40	<b>Flame spread experiments on a horizontal preheated black PMMA plate</b> Antonin Balthazar; Olivier Bouygues; Pascal Zavaleta; Abdenour Amokrane; Rodolphe Sonnier; Laurent Ferry	<b>Characterization of the possible ignition of bio-sourced insulations in the context of metal chimney applications</b> Pierre Cremona; Thomas Rogau; Benjamin Batiot; Franck Richard; Lionel Druette	<b>Fire-induced plutonium surrogate airborne dispersion under full-scale PUREX solvent combustion</b> Mamadou Sow; Helena Mastori; Delphine Costa
10:40-11:10	<b>Coffee Break</b>		
11:10 - 12:30	<b>Session #2 - Amphitheater</b>	<b>Session #1 - Room 1</b>	<b>Session #2-2 - Room 2</b>
Topic - Room	Enclosure fire dynamics	Fire detection and suppression	Fires in energy systems and industrial installations
Chairs	Ulises Rojas-Alva	Xinyan Huang	Virginie Drean, Pedro Reszka
11:10 - 11:30	<b>Critical velocity to prevent smoke from flowing into evacuation passage in a tunnel fire</b> Shoichi Kume; Futoshi Tanaka	<b>Spatiotemporal Dynamics for Fire Type Detection: Differentiating Lithium-Ion Battery, Benign, and Conventional Fires</b> Mostafa M. E. H. Ali; Murat Tah-tali; Maryam Ghodrat	<b>Characterization and water mist suppression effect of 18650 sodium-ion battery cell thermal runaway</b> Ruiqing Tao; Xiaolong Zhu; Shi Hu; Jian Hu; Xishi Wang
11:30 - 11:50	<b>A Design Fire Curve Derived from the Arrhenius Equation</b> Kevin McGrattan	<b>Novel fluorine-free firefighting foams enabled by supra-amphiphiles: Validated through fuel resistance and fire suppression</b> Dongsheng Wang; Depeng Kong; Song Zhang; Zhuang Li	<b>Hydrogen Jet Flame Simulations Using Eulerian and Lagrangian Methods</b> Mohammadreza Alibakhshian; Antti Henriksson; Simo Hostikka
11:50 - 12:10	<b>A Framework for High-Dimensional Fire Sensor Data Analysis</b> Stefan Mazzadi; Ayaan Lakhani; Vinny Gupta; Beth Weckman; Joshua Pulsipher	<b>Smoke Production and Detection From Lithium Ion Battery Powered E-Scooter Fires in a Compartment</b> Amy Mensch; Emma Veley; Sebastian Seda; Artur Chernovsky	<b>Spontaneous ignition and jet fire hazards from high-pressure hydrogen leaks: An experimental study</b> Songlin Zhang; Guangbo Jiang; Yiming Jiang; Peiyu Duan; Yiyang Fan; Qiangling Duan; Jinhua Sun
12:10 - 12:30	<b>Full-scale experimental investigation on critical conditions of extremely fire behaviors in compartment fires</b> Xiwen Lei; Zhilong Lv; Bin Xu; Zonghao Wu; Zhi Hong; Longxing Yu; Miao Cheng Weng	<b>Turning on the stability, spreading ability and fire suppression performance of fluorine-free foams stabilized by silica nanoparticles</b> Yang Li; Youjie Sheng	<b>Effects of perforated-plate geometry on hydrogen jet flame impingement: flame morphology and thermal characteristics</b> Zhiyang Liu; Sining Chen; Huahua Xiao
12:30 - 14:00	<b>Lunch Break</b>		

Day 3		TUE, 9 June		
14:00 - 15:00	<b>Invited Plenary Lecture #3: Ignition, Combustion, and Flame Spread in Wooden Heritage Building Fires</b> Chair : Bart Merci Jie Ji, University of Science and Technology of China, China Amphitheater			
15:00 - 16:00	<b>Session #3 - Amphitheater</b>	<b>Session #2 - Room 1</b>	<b>Session #1 - Room 2</b>	
<b>Topic - Room</b>	<b>Large outdoor fires</b>	<b>Fire detection and suppression</b>	<b>Fire risk assessment, performance-based design, and fire forensics</b>	
<b>Chairs</b>	<b>Fei Tang</b>	<b>Ning Ren</b>	<b>Augustin Guibaud</b>	
15:00 - 15:20	<b>Dynamic fire emission of smoldering peat under water suppression</b> Yuting Jiang; Haoyang Qin; Chuan Wan; Yichao Zhang; Shaorun Lin; Jiuling Yang; Yuqi Hu; Xinyan Huang	<b>Modeling Sodium Bicarbonate Powder Extinguishment in a Cup Burner</b> Jason Floyd; Randall McDermott; Chandan Paul; Paul Papas	<b>The influence of information from digital buildings on fire service operations</b> Nils Johansson; Katelynn Kapa- lo; Kati Pasto; Enrico Ronchi	
15:20 - 15:40	<b>Fire spread in canyon terrain: Experimental study on fireline interaction</b> Pengcheng Guo; Naian Liu; Haixiang Chen; Xiaodong Xie; Jiao Lei; Wei Gao; Linhe Zhang; Hongmin Zhang; Zhihao Du; Wei Fang	<b>Preparation and Performance Study of High-Stability Fluorine-Free Foam based on silica aerogel and hydroxyethyl methylcellulose</b> Jiulong Tao; Yuelel Pan; Hanwen Gou; Heping Zhang; Xudong Cheng	<b>Sustainability and fire safety decisions in the design process: Overview and two Swedish building projects</b> Cecilia Wetterqvist; Brian Meacham; Margaret McNamee	
15:40 - 16:00	<b>Experimental study of valley-induced vortex effects on fire spread under sidewind conditions</b> Zhuoyang He; Naian Liu; Xiaodong Xie; Linhe Zhang; Jiao Lei; Wei Gao	<b>Effects of interfacial properties and gas-liquid ratio on the fire-fighting performance of the fire-fighting foam containing C6 fluorocarbon/hydrocarbon surfactant mixtures</b> Huan Li; Xiaoyang Yu; Zhihao Fu; Wenbin Yao; Shouxiang Lu	<b>On the uncertainty of flashover correlations and its effect on risk assessment</b> Andrea Franchini; David Morriset; Richard Emberley; Ruben Van Coile»	
16:00 - 16:30	<b>Coffee Break</b>			
16:30 - 18:00	<b>Poster Session / Poster area</b>			
Evening - 18:00-20:00	<b>IAFSS Annual General Meeting</b> Amphitheater			

Day 4		WED, 10 June		
09:00 - 10:00	<b>Invited Plenary Lecture #4: The wildfire problem - a path forward</b> Chair : Beth Weckman Sara McAllister, US Forest Services, USA Amphitheater			
10:00 - 10:40	<b>Session #4-1 - Amphitheater</b>	<b>Session #3-1 - Room 1</b>	<b>Session #1 - Room 2</b>	
<b>Topic - Room</b>	<b>Ignition and flame spread</b>	<b>Fire detection and suppression</b>	<b>Evacuation, human behaviour, and societal impact of fires</b>	
<b>Chairs</b>	<b>Felix Wiesner, Tarek Beji</b>	<b>Zoubir Acem</b>	<b>Erica Kuligowski</b>	
10:00 - 10:20	<b>On the Level of Complexity of the Energy Equation for Solid Heat Transfer in Flame Spread</b> Waseem Hittini; Lange David; Juan P. Hidalgo; Felix Wiesner	<b>Development and validation of a predictive model for effects of high-pressure water mist on radiation evolution of liquid pool fire based on experimental data and machine learning</b> Ruoyi Tao; Fei Tang; Jianping Zhang; Chunlei Liang; Jun Wu; Bin Yao; Longhua Hu	<b>Issues Regarding the Operability of Locking Devices to Emergency Exit Doors in Japan</b> Yuki Akizuki; Yuji Hori; Hideki Yamaguchi»	

Day 4		WED, 10 June	
10:20 - 10:40	<b>Forward Calculation of Gas Radiation in Sooting Flames using a Multispectral Infrared Camera</b> Javiera Igor; Camila Seguel; Jean Louis Consalvi; Rodrigo Demarco; Nick Eaves; Andres Fuentes; Felipe Escudero»	<b>Suppression of Battery Energy Storage System Fires</b> Christoph Meraner; Janne Siren Fjærestad; Fride Vullum-Bruer; Marta Stefanska; Tian Li	<b>Does Wildfire Smoke Impact Travel Behaviour and Transit Usage? A Case of Western Canada</b> Thayanne G. M. Ciriaco; Javeria Khalid; Emily Grise; Laura Minet; Stephen D. Wong»
10:40-11:10	<b>Coffee Break</b>		
11:10 - 12:30	<b>Session #4-2 - Amphitheater</b>	<b>Session #3-2 - Room 1</b>	<b>Session #3 - Room 2</b>
<b>Topic - Room</b>	<b>Ignition and flame spread</b>	<b>Fire detection and suppression</b>	<b>Material flammability</b>
<b>Chairs</b>	<b>Felix Wiesner, Tarek Beji</b>	<b>Zoubir Acem</b>	<b>Yue Zhang</b>
11:10 - 11:30	<b>Spatially-resolved mass loss rate measurements and pyrolysis front tracking during upward flame spread</b> Karen De Lannoye; Isaac Tibor Leventon	<b>Estimation of sprinkler actual delivered density for storage applications using a data-driven approach</b> James White; Dong Han; Shaoxuan Chen; Yogish Gopala; Seth Sienkiewicz; Benjamin Ditch; Yibing Xin	<b>Fire performance of Mattresses with Contemporary Bedding Materials</b> Anthony Hamins; Giovanni Di Cristina; Matthew Bundy; Ickchan Kim; Mauro Zammarrano
11:30 - 11:50	<b>Improvement of the modelling of the ignition by implementation of the Flux-Time Product criterion in FDS. Comparison with experimental data on wood using a multi-scale approach</b> Pauline DIAS LOPES; Jérémy COLOMBIANO; Virginie DREAN; Benjamin BATIOT; Thomas ROGAUME; Eric GUILLAUME	<b>An Experimental Study of Compressed Air Foam (CAF) Protection for Ignitable Liquid Spill Fires</b> James P White; Yibing Xin	<b>Assessment of smoke toxicity of complex products using steady state tube furnace (ISO/ TS 19700)</b> Katarina Handlovicova; Anna A Stec; T Richard Hull
11:50 - 12:10	<b>A correlation to predict boiler onset time</b> Tarek Beji	<b>Extending discharge by using a mixture of air and inert gases as the agent to increase the hold time of an enclosure with openings</b> Xiaoqin Hu	<b>Reaction to fire, gas and aerosol emissions of wood fiber in a Controlled-Atmosphere Cone Calorimeter: influence of oxygen concentration and heat flux</b> Adèle Lamandé; Véronique Marchetti; Serge Bourbigot; Gaëlle Fontaine»
12:10 - 12:30	<b>A criterion for ignition of combustible solids exposed to firebrand piles</b> Sangkyu Lee; Jacques A. De Beer; Stanislav Stoliarov; Peter B. Sunderland	<b>Experimental and modeling study of water spray suppression for plastic fires</b> Xiangyang Zhou; Hamed Farahani Farahani	<b>Flame-retarded glass-fiber polypropylene for EV battery enclosures using synergized intumescent formulations</b> Igor Bastos Bezerra Rêgo; Serge Bourbigot; Gaëlle Fontaine
12:30 - 17:30	<b>Welcome desk • Excursion with Lunch Break</b>		

Day 5		THU, 11 June		
09:00 - 10:00	<b>Invited Plenary Lecture #5: Towards fire hazard evaluation of stationary lithium-ion battery systems: A review</b> Chair : Arnaud Trouve Yi Wang, FM, USA Amphitheater			
10:00 - 10:40	<b>Session #5-1 - Amphitheater</b>	<b>Session #3-1 - Room 1</b>	<b>Session #4-1 - Room 2</b>	
<b>Topic - Room</b>	<b>Ignition and flame spread</b>	<b>Enclosure fire dynamics</b>	<b>Large outdoor fires</b>	
<b>Chairs</b>	Yoon Ko, Shaorun Lin	Vinny Gupta, Rory Hadden	Yu Wang, Negar Elhami-Khorasani	
10:00 - 10:20	<b>Opposed flame spread limit over PMMA rods in normal and micro gravity</b> Jose Rivera	<b>LES simulations of enclosure fire scenarios with mechanical ventilation using EDC combustion model with finite-rate chemistry mechanisms</b> Jeri At Thabari; Georgios Maragkos; Youk Moorthamers; Alexander Snegirev; Hugues Prêtre; Bart Merci	<b>Effect of spatial differencing on radiation transport in vegetation with application to wildland fire modeling</b> Eric Victor Mueller; Marcos Vanella	
10:20 - 10:40	<b>Sooting behavior of laminar flames produced with clear and black cast PMMA</b> Pablo E. Pinto; Mijail Littin; Ignacio Verdugo; Gonzalo Severino; Juan J. Cruz; Felipe Escudero; James L. Urban; Maria Thomsen; Andres Fuentes; Rodrigo Demarco	<b>Study on the Coupling Mechanism of Mainline Slope and Heat Release Rate on Induced Airflow and Flame Tilting Behavior in Branch Tunnels</b> Bingyan Dong; Huang, Youbo	<b>Numerical Modelling and Experimental Validation of Hedge Fires at the Wildland Urban Interface under Variable Wind Conditions</b> Virginie Tihay-Felicelli; Anthony Graziani; Yolanda Perez-Ramirez; Paul-Antoine Santoni; Toussaint Barboni	
10:40-11:10	<b>Coffee Break</b>			
11:10 - 12:30	<b>Session #5-2 - Amphitheater</b>	<b>Session #3-2 - Room 1</b>	<b>Session #4-2 - Room 2</b>	
<b>Topic - Room</b>	<b>Ignition and flame spread</b>	<b>Enclosure fire dynamics</b>	<b>Large outdoor fires</b>	
<b>Chairs</b>	David Morrisset, Shaorun Lin	Vinny Gupta, Rory Hadden	Yu Wang, Yoon Ko	
11:10 - 11:30	<b>Effect of Soot Concentration on Radiative Transport in a 2 m JP-8 Pool Fire</b> Joshua Hubbard; John Hewson; Stefan Domino; Elizabeth Armstrong; Michael Meehan; Flint Pierce	<b>Experimental and theoretical study of sudden ventilation change on fire dynamics of compartments with different types of glass</b> Ting Xia; Haonan Chen; Wei Chu; Yu Wang	<b>Informal settlement fire load density: survey outcomes from South Africa</b> Richard May; Yu Wang; Lesley Gibson; SJ Cooper-Knock; Richard Walls; David Rush	
11:30 - 11:50	<b>Video enhancement for increased spatio-temporal resolution in thermal videos: demonstration on a pool fire</b> Martin Veit; Andrea Lucherini; Steven Verstockt; Bart Merci	<b>Burning of liquid pools and wood cribs in large fully developed timber compartment fires</b> Vinny Gupta; Keon Senez; Ian Pope; Felix Wiesner; Andrea Lucherini; David Lange; Jose L. Torero; Elizabeth Weckman; Juan P. Hidalgo	<b>Comparative assessment of wildland fire rate of spread models: Influence of terrain slope</b> Christos Pallikarakis; Dionysios Kolaitis	
11:50 - 12:10	<b>Experimental study on the characteristics of minimum ignition energy and quenching distance for hydrogen/ammonia-blends in air</b> Jun-ichi Suematsu; Naoto Kawashima; Shou Komatsu; Tomohiko Imamura	<b>Effect of Vertical Cavity Geometry on Flame Spread along Insulated Double-Glass BIPV Facades Exposed to Window Spill Fires</b> Wanning Yu; Lizhong Yang; Xiuyuan Chen; Zhenhua Wang; Jiahui Xu; Grunde Jomaas; Xiaoyu Ju	<b>Crib-fire Dynamics in Open and Enclosed Ventilation Conditions</b> Alexander L Brown; Sara McAllister; Alexander J. Josephson; Jon Reisner; Eunmo Koo	

Day 5			
THU, 11 June			
12:10 - 12:30	<b>Orientation Effects on the Ignition of Mass Timber Ceilings: A Bench-Scale Investigation</b> Joshua Madden; Felix Wiesner; David Morrisset; Wenxuan Wu; Ryan Hilditch; David Lange	<b>Heat transfer to a Burning Ceiling with Intermittent Flame Impingement</b> James Greer; Rory M. Hadden; Angus Law	<b>Assessing roadside wildfire exposure and vulnerability: a case study of the GI-614 to Cadaqués (Catalonia, Spain)</b> Pascale Vacca; Simona Dossi; Martí Codina; Eulàlia Planas; Elsa Pastor
12:30 - 14:00	<b>Lunch Break</b>		
14:00 - 14:20	<b>PhD Thesis Award Lecture</b>		
<b>Topic - Room</b>	<b>PhD Thesis Award Lecture (Europe-Africa)</b> Amphitheater	<b>PhD Thesis Award Lecture (Asia-Oceania)</b> Room 1	<b>PhD Thesis Award Lecture (Americas)</b> Room 2
<b>Chair</b>	<b>Thomas Gernay</b>	<b>Wojciech Węgrzyński</b>	<b>Aatif Khan, Xiqiang Wu</b>
14:00 - 14:20	<b>Defining Probabilistic Evacuation Triggers for Wildfires Using an Ensemble of Five Flame Spread Models: The Fort McMurray Case Study</b> Nikolaos Kalogeropoulos	<b>Two stage evolutions of downward flame spread over concave surfaces</b> Rongwei Bu	<b>Inert Gas Extinguishing Systems: Standard and Non-Standard Suppression Testing</b> Jonathan Zimak
14:20 - 14:40	<b>Early Career Award Lectures</b>		
<b>Topic - Room</b>	<b>Magnusson Early Career Award Lecture</b> Amphitheater	<b>Proulx Early Career Award Lecture</b> Room 1	<b>Structure-fire interactions Session #1-1</b> Room 2
14:20 - 14:40	<b>Rethinking Fire Resilience in the Built Environment: A Comparative Review of Post-Earthquake and WUI Fires</b> Negar Elhami-Khorasani	<b>From Nano- to Megastructure: A Review of Mass Timber Load-Bearing Capacity in Fire</b> Felix Wiesner	<b>The fire resistance of concrete columns with basalt FRP longitudinal and transverse reinforcement under axial and eccentric loading</b> Małgorzata Wydra; Piotr Turkowski; Marek Ąukomski; Grzegorz Sadowski; Piotr Dolny; Ann Jeffers; Jadwiga Fangrat
14:40 - 16:00	<b>Session #5 - Amphitheater</b>	<b>Session #4-1 - Room 1</b>	<b>Session #1-2 - Room 2</b>
<b>Topic - Room</b>	<b>Large outdoor fires</b>	<b>Enclosure fire dynamics</b>	<b>Structure-fire interactions</b>
<b>Chairs</b>	<b>Negar Elhami-Khorasani</b>	<b>Rongwei Bu</b>	<b>Aatif Khan, Xiqiang Wu</b>
14:40-15:00	<b>Prediction of the critical slope angles for flame attachment under inclined trench conditions</b> Mengmeng Li; Naian Liu; Xiaodong Xie; Jiao Lei; Wei Gao; Linhe Zhang	<b>Determining the relative impact of cladding, insulation, and the presence of a cavity on facade fire spread using intermediate-scale experiments</b> Matthew Bonner; Wojciech Węgrzyński; Guillermo Rein	<b>FIRECAT: A Public Database for Solid Temperature Modelling of Mass Timber Compartment Fire Tests</b> Arwa Abougharib; M. Z. Naser; Gregory Paradis; Felix Wiesner
15:00 - 15:20	<b>Development and validation of a pressure-dependent hydraulic modeling framework for water systems under wildfire conditions</b> Amy Metz; Erica Fischer; Hannah Farris	<b>Effect of ventilation on fire behavior in model tunnel and implications for full-scale</b> Jakub Bielawski; Wai Kit Cheung; Dia Luan; Xinyan Huang; Wojciech Węgrzyński	<b>Fire resistance of dense aggregate hollow concrete masonry walls: experiments and comparison with Eurocode 6</b> Piotr Andrzej Turkowski; ; Jakub Bielawski; Jadwiga Fangrat
15:20 - 15:40	<b>Simulations of Fuel Consumption in Wildland Fire Spread at Vegetation and Flame Scales</b> Hazem M. Al-Bulqini; Arnaud Trouve	<b>Experimental Investigation of Ventilation Effects on Charring in Combustible Compartments</b> Aatif Ali Khan; Charles Fleischmann; Ben Barker; Henri Bann	<b>Fire performance of thin intumescent coatings: Material characterisation and application to mass timber structures</b> Stavros Spyridakis; Felix Wiesner; Andrea Lucherini; Wenxuan Wu; Cristian Maluk; Anwar Orabi

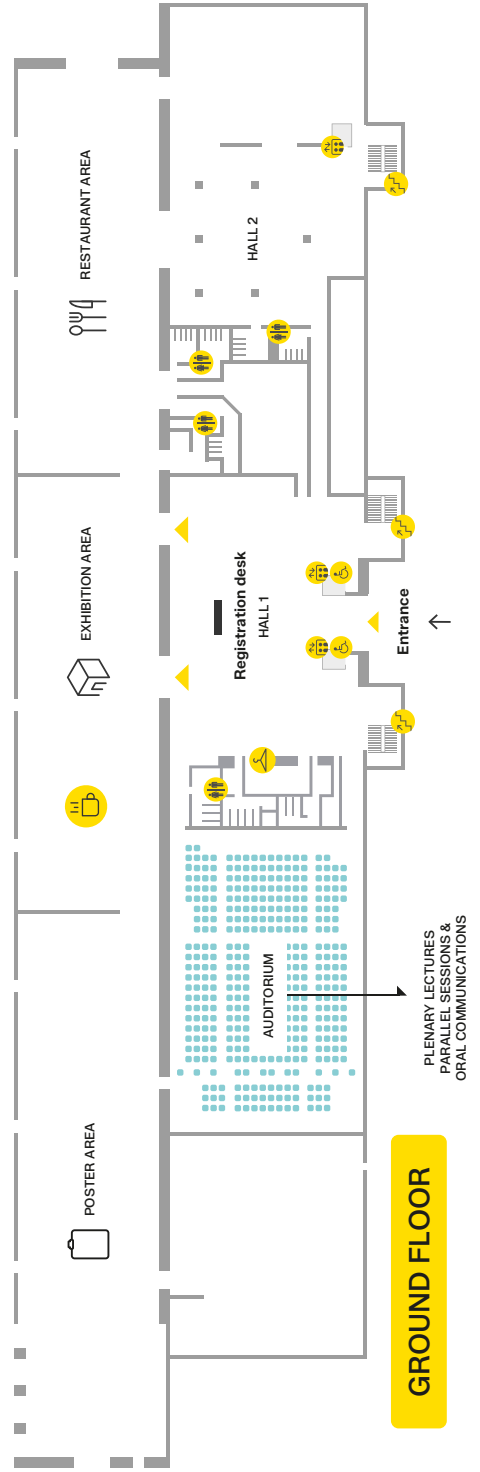
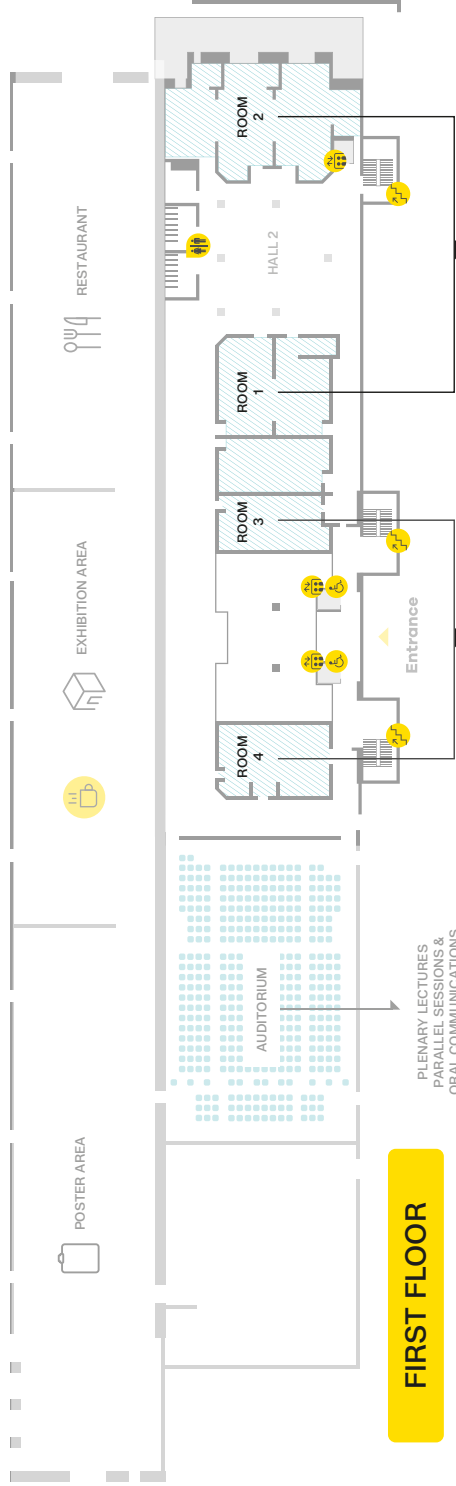
Day 5		THU, 11 June	
15:40 - 16:00	<b>A Unified Scaling Law for Bush-fire Junctions</b> Ahmad Hassan; Gilbert Accary; Jason Sharples; Khalid Moinnedin	<b>Estimating Flame Volume from Fire Tests using Machine Learning</b> Johan Anderson; Samuel Tistलगren Holappa; Gustav Schelin	<b>Thermal Modeling of Post-Earthquake Fire Tests on a 10-Story Cold-Formed Steel Building</b> Yu Niu; Richard Emberley; Tara Hutchinson; Benjamin Schafer; Brian Meacham; Thomas Gernay
16:00 - 16:30	<b>Coffee Break</b>		
16:30 - 17:30	<b>Session #2 - Amphitheater</b>	<b>Session #4-2 - Room 1</b>	<b>Session #2 - Room 2</b>
Topic - Room	Evacuation, human behaviour, and societal impact of fires	Enclosure fire dynamics	Fire risk assessment, performance-based design, and fire forensics
Chairs	Daniel Alvear	Tianwei Chu	Virginie Felicelli-Tihay
16:30 - 16:50	<b>Nothing about us without us: A Scoping Review of Participatory Research in Egressibility Studies</b> Jane Gachuche; Mohamed Beshir	<b>Parallel panel experiments on cladding and insulation systems: overall behaviour and relative contributions to heat release</b> Cameron MacLeod; Neal Butterworth; Angus Law	<b>Structural Fires and Emergency Response in New York City: A Spatiotemporal Analysis of Fire Incidence and Severity</b> Hannah Bonestroo; Augustin Guibaud
16:50 - 17:10	<b>Compliance with preparedness and early evacuation guidelines: An analysis of responsibility, disaster literacy, and situated agency in an Australian bushfire</b> Lucas Hovart; Rosie Morrison; Erica D. Kuligowski; Tove Frykmer; Margaret McNamee	<b>Inlet and exhaust ventilation line positions influence onto combustion regimes and smoke distribution in case of a fire in a mechanically ventilated compartment</b> Hugues Pretrel; Bimal Kondorkhuzi; Philippe Nérisson	<b>Characterizing the hazards of vehicle fires in the WUI</b> Giovanni Di Cristina; Aika Davis; Matthew Bundy; Anthony Hamins
17:10 - 17:30	<b>Visibility Performance Thresholds of Exit Signs in Smoky Indoor Environments</b> Wai Kit Cheung; Jakub Bielawski; Lukas Arnold; Xinyan Huang; Wojciech Wegrzynski	<b>Assessment of upward fire spread between balconies using full-scale tests</b> Michael Spearpoint; Konstantinos Chotzoglou; Talal Fateh; Danny Hopkin; Shaneer Vellukandy	<b>Hierarchical Bayesian Estimation of a Probabilistic Fire Occurrence Model Considering the Effects of Size, Occupancy, and Time-of-Day</b> Hikaru Ota; Keisuke Himoto; Yoshifumi Ohmiya
19:00 - 00:00	<b>Symposium Banquet</b>		

Day 6		FRI, 12 June	
09:00 - 10:00	<b>Invited Plenary Lecture #6: Unravelling the Mysteries of Fire</b> Chair : Sara McAllister Beth Weckman, University of Waterloo, Canada		
10:00 - 10:40	<b>Session #3 - Amphitheater</b>	<b>Session #3-1 - Room 1</b>	<b>Session #3-1 - Room 2</b>
Topic - Room	Fires in energy systems and industrial installations	Fire risk assessment, performance-based design, and fire forensics	Evacuation, human behaviour, and societal impact of fires
Chairs	Christoph Meraner	Pascale Vacca, Gonzalo Severino	Yuxin Zhang, David Rush
10:00 - 10:20	<b>Thermal Runway Propagation Behavior for Aged Lithium-ion Batteries</b> Shuguo Sun; Gang Xiong; Yi Wang; Wilson Brown; Dong Zeng; Jun Xu	<b>Uncertainties in natural fire models: accuracy and probabilistic application in structural fire design</b> Qingfeng Xu; Charlie Hopkin; Yong Wang	<b>Measuring gait space: new dimensions for crowd flow</b> Peter Thompson; Paul Georg; Hui Xie; Carina Wings; Thomas Chatagnon

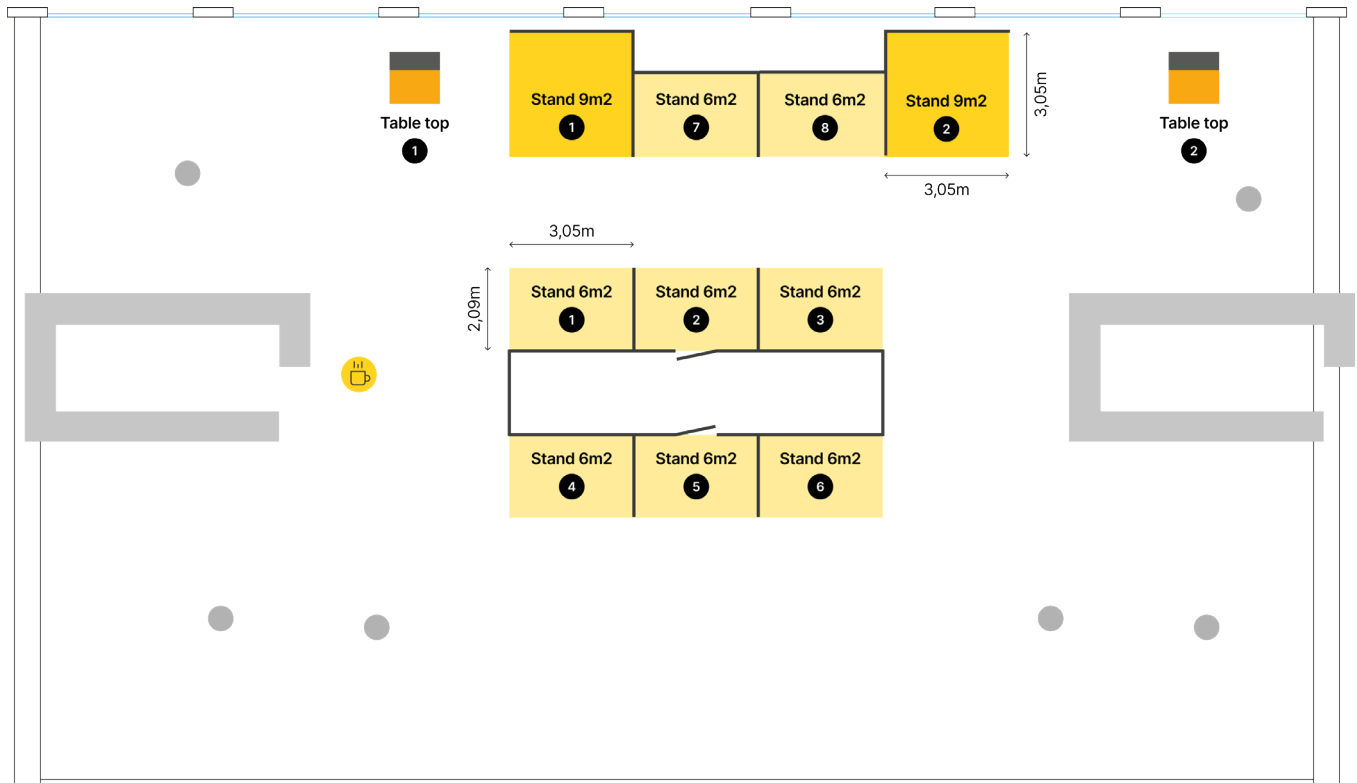
Day 6			
FRI, 12 June			
10:20 - 10:40	<b>A calorimeter for quantifying thermal runaway dynamics in pouch cells</b> Gang Xiong; Chanmonirath (Michael) Chak; Wilson Brown; Dong Zeng; Robert Barlow; Yi Wang	<b>The Landscape of Complexity in Fire Safety Design of Buildings</b> Ayyappa Thejus Mohan; Benjamin Seligmann; Ruben Van Coile; David Lange	<b>Fire Alarms in Informal Settlements "Are They Worth It?"</b> Sadia Afrin; David Rush
10:40 - 11:10	<b>Coffee Break</b>		
11:10 - 12:30	<b>Session #2-1 - Amphitheater</b>	<b>Session #3-2 - Room 1</b>	<b>Session #3-2 - Room 2</b>
Topic - Room	Structure-fire interactions	Fire risk assessment, performance-based design, and fire forensics	Evacuation, human behaviour, and societal impact of fires
Chairs	Zhuojun Nan	Yuxin Zhang, David Rush	Pascale Vacca, Gonzalo Severino
11:10 - 11:30	<b>Experimental and Numerical Study of Through-Thickness Heat Transfer and Pyrolysis in CFRP Laminates Under Radiative Heat Flux</b> Samuel Stevens; William Jarrett; Tim Aspinal; Kevin Denham; Emmajane Erskin; Rory Hadden	<b>A Risk-based Design Method for Preventing Fire Spread Between Buildings to Achieve a Safety Level Equivalent to the Prescriptive Standard</b> Keisuke Himoto	<b>Memory retention of spatial knowledge in fire evacuation- and safety training</b> Leo Willem Menzemer; Steve Gwynne; Enrico Ronchi
11:30 - 11:50	<b>Structural fire performance of modified steel shipping containers for modular buildings</b> Christian Oosthuysen; Richard Shaun Walls; Yohannes Werkina Shewalul; Nico de Koker	<b>The Fire Safety Strategy</b> David Lange; David Morrisset; Ayyappa Thejus Mohan; Joshua Madden; Wenxuan Wu; Anwar Orabi; Ryan Hilditch; Felix Wiesner; Martyn S. Mclaggan; Vinny Gupta; Juan P. Hidalgo; Ian Pope; Michael Woodrow; Jose L. Torero	<b>Evacuation Decisions in the 2023 Tenerife Fire: Insights from a Comparison with the 2019 Kincade Fire</b> Arturo Cuesta; Adriana Balboa; Erica Kuligowski; Daniel Alvear
11:50 - 12:10	<b>Fire behavior of waste filled plastic bottles (Ecobricks) as an infill building material</b> Zara R Sander; Richard Shaun Walls; Adewumi J. Babafemi	<b>Performance-based fire engineering for airport terminals: methodology and case study</b> Peter Marriott; Jeremy John Chang; James McBryde; Taidi Gu	<b>A Study on Perceptual Equivalence Between Virtual and Physical Environments</b> Silvia Arias; Jonathan Wahlqvist; Joakim Eriksson; Pimkamol Mattsson; Håkan Frantzich
12:10 - 12:30	<b>Experimental and Numerical Studies on Flat Slab-Column Joint Exposed to Fire Considering Slab Boundary Conditions</b> Xiqiang Wu; Yuanpeng Gao; Xinyan Huang; Wen Xiong; C.S. Cai	<b>Probabilistic Design Fire Scenarios for Performance-Based Design Involving Passenger Vehicles</b> Nathaniel G Sauer; Jonathan L Hodges; Matthew J DiDomizio	<b>A Theoretical Framework Explaining Evacuation Travel Behaviour in Bushfires: A qualitative study of destination and mode choices</b> Erica Kuligowski; Rosie Morrison; Steve Gwynne; Gulsah Atas; Ruggiero Lovreglio; Fate-meh Roohafza»
12:30 - 14:00	<b>Lunch Break</b>		
14:00 - 15:20	<b>Session#2-1 - Amphitheater</b>	<b>Session #2 - Room 1</b>	<b>Session #4 - Room 2</b>
Topic - Room	Structure-fire interactions	Solid pyrolysis and smouldering	Fire detection and suppression
Chairs	Richard Walls	Benjamin Batiot	Elizabeth Blanchard
14:00-14:20	<b>Thermo-Mechanical Response of Low-Cement Concrete Under Sustained Loading During Fire and Cooling Exposure</b> Mahadev Rokade; Tim Stratford; Dave Rush	<b>Scaling analysis of regime transitions during transient gasification of a non-charring solid fuel</b> Damien M. Marquis; Rita Nohra; Benjamin Batiot; Thomas Rogaume	<b>Suppressing Underground Peat Fire and Smoldering Spread via Water, Ice, Dry Ice, and Liquid Nitrogen</b> Yichao Zhang; Yuying Chen; Yunzhu Qin; Yizhou Li; Yuxin Zhou; Zifan Zhang; Yuting Jiang; Shaorun Lin; Xinyan Huang

<b>Day 6</b>			
<b>FRI, 12 June</b>			
<b>14:20 - 14:40</b>	<b>Comparative study of laminated glass thermal failure under axial compression and tension</b> Liaoying Zhou; Wei Chu; Dezhi Ran; Haonan Chen; Yu Wang	<b>Experimental Study on Thermal Conditions Affecting Smouldering Behaviour of CCA-treated Wood using Fire Propagation Apparatus</b> Wenxuan Wu; Luis Yermán; Juan P Hidalgo; Jeffrey J Morrell; Felix Wiesner	<b>Gaseous Fire Protection of Enclosures with Openings Using Nitrogen Curtains</b> Xiangyang Zhou; James White; Yibing Xin
<b>14:40-15:00</b>	<b>Heat induced delamination of loaded laminated timber cantilevers</b> Antonela Čolić; Felix Wiesner; Michael Spearpoint; Danny Hopkin; Luke Bisby	<b>Atomistic Simulation of Cellulose Pyrolysis in Fire Conditions Using ReaxFF Molecular Dynamics: Pathway towards a Dynamic Wood Pyrolysis Model Development</b> Ahmed M. Ali; Mohamed W. Tawfik; Mohamed Beshir	<b>Numerical Modeling of Water Mist Fire Suppression in Enclosures</b> Ning Ren; Sergey B Dorofeev; Yi Wang
<b>15:00 - 15:20</b>	<b>Updating of a deterministic model for the free thermal strain of concrete in fire during heating and cooling using novel experimental data and Bayesian inference</b> Florian Put; Roberto Felicetti; Andrea Lucherini; Bart Merci; Ruben Van Coile	<b>Charring and in-depth thermal penetration within cross-laminated timber elements in large-scale compartment fires</b> Ian Pope; Andrea Lucherini; Jose Torero; Angela Solarte; Diana Soriguer; Vinny Gupta; Felix Wiesner; David Lange; Juan P. Hidalgo	<b>Effects of nozzle diameter on spray range and pressure loss in nozzle-type CAFS</b> Kaiyuan Li; Lilong Nie; Yi Niu; Shuai Li; Yongkang Guo; Agoston Restas; Linlin Yi
<b>15:20 - 16:00</b>	<b>Farewell reception</b>		

# Auditorium & Rooms Location Map



# Exhibition Area



## Table tops

- 1 Springer Nature
- 2 Motis

## Stands 9m2

- 1 ASNR
- 2 UL Research Institutes' Fire Safety Research Institute

## Stands 6m2

- 1 Concept Equipment
- 2 Ineris
- 3 NETZSCH Gerätebau GmbH
- 4 Fire Testing Technology
- 5 FM
- 6 MDPI
- 7 Hai Robotics
- 8 Falck Fire Services UK Limited

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