MaCFP WORKSHOP - Saturday, 10 June 2017

	08:00	Registration - Entrance V-building
1		1st Workshop of the IAFSS Working Group on "Measurement and Computation of Fire Phenomena" (the MaCFP Working Group) - Gas Phase Subgroup
ion		Room V:A
(University of Maryland), J. Hewson (Sandia National Laboratories) (University of Maryland), B. Merci (Ghent University), R. McDermo Institute of Standards and Technology), J. Torero (University of Qu		Workshop Panelists: A. Brown (Sandia National Laboratories), M. Gollner (University of Maryland), J. Hewson (Sandia National Laboratories), A. Marshall (University of Maryland), B. Merci (Ghent University), R. McDermott (National Institute of Standards and Technology), J. Torero (University of Queensland), A. Trouvé (University of Maryland), Y. Wang (FM Global), B. Weckman (University of Waterloo)
	11:50 - 13:10 Lunch - Entrance V-building	
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a	11:50 - 13:10	Lunch - Entrance V-building 1st Workshop of the IAFSS Working Group on "Measurement and Computation of Fire Phenomena" (the MaCFP Working Group) - Gas Phase Subgroup
Workshop Session 2 13:10 - 17:00	11:50 - 13:10	1st Workshop of the IAFSS Working Group on "Measurement and Computation

WORKSHOPS - Sunday, 11 June 2017

	08:00	Registration - Entrance V-building		
1		1st Workshop of the IAFSS Working Group on "Measurement and Computation of Fire Phenomena" (the MaCFP Working Group) - Condensed Phase Subgroup	New Approaches to Evacuation Modelling	Global Perspectives of Timber in High-Rise Buildings
u o		Room V:A	Room V:R2	Room V:D
Workshop Session 1 9:00 - 12:00	MaCFP or 9:00 - 12:00: other	Guillaume (Efectis), S. Hostikka (Aalto University), Lautenberger (Reax Engineering), I. Leventon (National Institute of Standards and Technology), G. Rein (Imperial		Workshop Panelists: D. Barber (Arup), K. Friquin (SINTEF Building and Infrastructure), A. Jeffers (University of Michigan), B. Magnusson (Rambøll), J. Su (National Research Council Canada)
	12:00 - 13:00	Lunch - Entrance V-building		
0			Better Linking Fire Safety Science and Fire Safety Engineering: Research Priorities for Fire Safety Engineering	Large Outdoor Fires and the Built Environment
on 2		Room V:S2	Room V:R2	Room V:D
Workshop Session 2 13:00 - 16:00		Lancashire), A. Stec (University of Central Lancashire), P. Woodburn (Arup)		Workshop Panelists: R. Blanchi (CSIRO), M. Gollner (University of Maryland), S. Manzello (National Institute of Standards and Technology), S. McAllister (US Forest Service), E. Planas (Politècnica de Catalunya-Barcelona Tech.), G. Rein (Imperial College London), P. Reszka (Universidad Adolfo Ibañez), S. Suzuki (NRIFD)
ents	17.00 - 19.00	IAFSS Management Committee Meeting (Meeting Room V:Konf1)		
ning Ev	17:00- 21:00	Registration (Room MA:9)		
Evei	17:30 - 21:00	Welcome Reception (Room MA:10)		

SYMPOSIUM DAY 1 - Monday, 12 June 2017

1	08:00	Registration Open (Room MA:9)				
_		Opening Ceremony (Room Kårhuset:Aula)				
	8.30 - 9.00	Session Chair: Daniel Nilsson				
-		Howard W. Emmons Invited Plenary Lecture: Wildland Fire Spotting by Sparks and	Firebrands			
	9:05 - 9:55	Carlos Fernandez-Pello, University of California at Berkeley, USA	FII EDI UNUS			
	9:05 - 9:55					
H		Session Chair: Arnaud Trouvé				
		Invited Lecture # 1: Fire Safety Engineering in Timber Buildings Birgit Östman, Building technology, Linneaus University Session Chair: Arnaud Trouvé				
	10:00 - 10:40					
	10.10.11.05					
		Coffee Break - Room MA:10		·····•		
		MATERIAL BEHAVIOR IN FIRES - Room MA:7	FIRE SUPPRESSION - Room MA:4	FIRE SAFETY ENGINEERING - Room MA:6		
L		Session Chairs: Guillermo Rein and Thomas Rogaume	Session Chairs: Vasily Novozhilov and Bjarne Husted	Session Chairs: Margaret Simonson McNamee and Brian Meacham		
		Guylene Proulx Invited Lecture: The Effect Of Flow And Geometry On Concurrent	An Experimental Study Of Complex Fuel Burning Behavior With Water	The Theoretical Framework Of Fire Safety Design: Reflections And Alternatives,		
n 1	11:25 - 11:50	Flame Spread, Michael Gollner, Wei Tang, Colin Miller and Ajay Singh, University of	Application, Xiangyang Zhou, FM Global, USA	Jonatan Gehandler, Research Institutes of Sweden, Sweden		
510 1:40		Maryland, USA	Application, Xiangyang Zhou, Thi Global, 03A	Jonatan Genandier, Research institutes of Sweden, Sweden		
Ses - 12		Effect Of Oxygen Concentration On The Combustion Of Horizontally-Oriented	Measuring Fuel Transport Through Fluorocarbon And Fluorine-Free Firefighting	Response Surface Modelling In Quantitative Risk Analysis For Life Safety In Case		
25.	11:50 - 12:15	Slabs Of PMMA David Alibert, Mickaël Coutin, Maxime Mense, Yannick Pizzo and	Foams, Katherine Hinnant, Michael Conroy and Ramagopal Ananth, US Naval	Of Fire, Bart Van Weyenberge, Pieterjan Criel, Xavier Deckers, Robby Caspeele ar		
11:		Bernard Porterie, University of Aix-Marseille, France	Research Laboratory, USA	Bart Merci, Ghent University, Belgium		
11:25 - 12:40				Assessing Fire Safety Using Complex Numerical Models With A Bayesian Multi-		
		Two-Dimensional Model Of Smouldering Combustion Using Multi-Layer Cellular	Large-Scale Fire Suppression Modeling Of Corrugated Cardboard Boxes On Wood	Fidelity Approach, Rémi Stroh, Julien Bect, Séverine Demeyer, Nicolas Fischer,		
	12:15 - 12:40	Automata: Role Of Ignition Location And Direction Of Airflow, Nieves Fernandez,	Pallets In Rack-Storage Configurations, Ning Ren, Jaap de Vries, Xiangyang Zhou,	Damien Marquis and Emmanuel Vazquez, Laboratoire National de métrologie et		
		Kim Christensen and Guillermo Rein, Imperial College London, UK	Marcos Chaos, Karl Meredith and Yi Wang, FM Global, USA	d'Essais (LNE) and Laboratoire des Signaux et Systèmes (L2S), France		
	12:40 - 13:45	Lunch - Room MA:9				
		MATERIAL BEHAVIOR IN FIRES - Room MA:7	FIRE SUPPRESSION - Room MA:4	FIRE SAFETY ENGINEERING - Room MA:6		
		Session Chairs: Stanislav Stoliarov and Juan Hidalgo	Session Chairs: Yi Wang and Alexander Snegirev	Session Chairs: Anne Steen-Hansen and Håkan Frantzich		
. Г			Influence Of The Particle Injection Rate, Droplet Size Distribution And Volume			
n 1		Measurement Of Instantaneous Flame Spread Rate Over Solid Fuels Using Image	Flux Angular Distribution On The Results And Computational Time Of Water	Advanced Active Imaging System In A Fire Environment By Using Terahertz		
SSIC :00	13:45 - 14:10	Analysis, Subrata Bhattacharjee, Luca Carmignani, Greg Celniker and Blake	Spray CFD Simulations, Tarek Beji, Setareh Ebrahim Zadeh, Georgios Maragkos and	Electromagnetic Waves, Ken Matsuyama, Naofumi Shimizu and Seiji Okinaga,		
15 Se		Rhoades, San Diego State University and University of California San Diego, USA	Bart Merci, Ghent University, Belgium	Tokyo University of Science, Japan		
Atternoon Session 13:40 - 15:00		Developing the stars and tweeners has delivery Of Calledons At The Adjustered Street	Constinuity Described Communications and Their Investigations. Chambers London	Fireground Location Understanding By Semantic Linking Of Visual Objects And		
13: 13:	14:10 - 14:35	Pyrolysis Kinetics And Inverse Modelling Of Cellulose At The Microscale, Franz	Spatially-Resolved Spray Measurements And Their Implications, Stephen Jordan,	Building Information Models, Florian Vandecasteele, Steven Verstockt and Bart		
ATTE		Richter and Guillermo Rein, Imperial College London, UK	Juraj Repcik, Noah Ryder and Andre Marshall, University of Maryland, USA	Merci, Ghent University, Belgium		
-		Fully Coupled CFD Simulation Of The Pyrolysis Of Non-Charring Polymers: A	Measuring Modified Glass Bulb Sprinkler Thermal Response In Plunge And	The Effectiveness Of Specific Fire Prevention Measures For Different Population		
	14:35 - 15:00	Predictive Approach, Germain Boyer, Institut de Radioprotection et de Sûreté	Compartment Fire Experiments, Kevin Frank, Michael Spearpoint, Greg Baker,	Groups, Marcus Runefors, Nils Johansson and Patrick van Hees, Lund University,		
		Nucléaire (IRSN), France	Colleen Wade, Peter Collier and Charles Fleischmann, BRANZ, New Zealand	Sweden		
	15:00- 15:30	Coffee Break - Room MA:9				
		MATERIAL BEHAVIOR IN FIRES - Room MA:7	FIRE SUPPRESSION - Room MA:4	FIRE SAFETY ENGINEERING - Room MA:6		
		Session Chairs: Stanislav Stoliarov and Juan Hidalgo	Session Chairs: Yi Wang and Alexander Snegirev	Session Chairs: Anne Steen-Hansen and Håkan Frantzich		
ľ				The Impact Of User Decision-Making In The Application Of Computational		
n 2		Critical Heat Flux For Extinction Of Flaming Combustion Of Timber, Richard	Physical Scaling Of Water Mist Fire Extinguishment In Industrial Machinery	Compartment Fire Models, Greg Baker, Michael Spearpoint, Kevin Frank, Colleen		
sio 45		Emberley, Tam Do, Jessica Yim and Jose L. Torero, University of Queensland,	Enclosures, Hong-Zeng Yu, Xiangyang Zhou and Jonathan Carpenter, FM Global,	Wade and Shahriar Sazegara, BRANZ, University of Canterbury and Beca Ltd., Nev		
- 16:45		Australia	USA	Zealand		
000 - 30 -		Critical Parameters In The Crossing-Point Temperature (CPT) Method For	Water Mist Suppression Of A Turbulent Line Fire, James White, Salman Verma,			
erno 15:3	15:55 - 16:20	Spontaneous Combustion Of Coal, Yong-Liang Xu, Lan-Yun Wang, Ning Tian, Jian-	Elizabeth Keller, Ailing Hao, Arnaud Trouve and Andre Marshall, University of	Frequency Of Ignition Of Non-Residential Buildings In Japan, Yutaka Kobayashi,		
Afternoon 15:30 -		Ping Zhang, Ming-Gao Yu and Michael Delichatsios, Ulster University, UK	Maryland, USA	Taisei Corporation, Japan		
4		Simultaneous Improvements In Flammability And Mechanical Toughening Of	Extinguishing Characteristics Of A Diffusion Flame With Water Vapor Produced	Informal Settlement Fires In South Africa: Fire Engineering Overview And Full-		
		Epoxy Resins Through Nano-Silica Addition, Nils Roenner, Keval Hutheesing,	From A Water Droplet Impacting Onto A Heated Plate, Hiroyuki Torikai and	Scale Tests On "Shacks", Richard Walls, Gerhard Olivier and Rodney Eksteen,		
		Alexander Ferguson and Guillermo Rein, Imperial College London, UK	Akihiko Ito, Hirosaki University, Japan	Stellenbosch University, South Africa		
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		Swedish midsummer celebration (separate ticket required - see start time on				
un di	17.00	Swedish musulminer celebration (separate ticket required - see start time on				
Evening		ticket)				

SYMPOSIUM DAY 2 - Tuesday, 13 June 2017

	08:00	Registration Open (Room MA:9)				
		Invited Lecture # 2: A Review of Pool Fire Behaviors in Wind and Challenges (Room Kårhuset:Aula)				
	9:00 - 9:40	Longhua Hu, University of Science and Technology of China, China				
		Session Chair: Elisabeth Weckman				
Morning Session 1 9:00 - 10:50		MATERIAL BEHAVIOR IN FIRES - Room MA:7	FIRE SUPPRESSION - Room MA:4	TUNNEL FIRES - Room MA:6		
		Session Chairs: Isaac Leventon and Chris Lautenberger	Session Chairs: Andre Marshall and Simo Hostikka	Session Chairs: Haukur Ingason and Ying Zhen Li		
		Controlled Atmosphere Pyrolysis Apparatus Ii (Capa Ii): A New Tool For Analysis	An Empiricantel Study Of Size County And Summarian Of Dall Damas Viking Vic	5ffe et Of Caree Castien On Critical Valasity in Lawrity disally Vantilated Turnel		
	10:00 - 10:25	Of Pyrolysis Of Charring And Intumescent Polymers, Joshua Swann, Yan Ding,	An Experimental Study Of Fire Growth And Suppression Of Roll Paper, Yibing Xin, Dong Zeng, Xiangyang Zhou, Kristin Jamison and Karl Meredith, FM Global, USA	Effect Of Cross Section On Critical Velocity In Longitudinally Ventilated Tunnel Fires, Ying Zhen Li and Haukur Ingason, Research Institutes of Sweden, Sweden		
		Mark Mckinnon and Stanislav Stoliarov, University of Maryland, USA	Dong zeng, Xiangyang zhoù, Kristin Jannson and Kari Mereurth, PM Global, OSA	ries, fing zhen Li and Haukur ingason, kesearch institutes of Sweden, Sweden		
		Pyrolysis And Non-Piloted Ignition Of Wood Under Transient Irradiation:		Experimental Investigation On Transverse Ceiling Flame Length And Temperati		
	10.25 - 10.50	Experiments And A-Priori Predictions, Izabella Vermesi, Matthew Didomizio, Franz	Effects Of Storage Height On Critical Delivered Flux Of Representative Fuels,	Distribution Of Sidewall Confined Tunnel Fire, Zihe Gao, Jie Ji, Huaxian Wan, Jipi		
	10120 10100	Richter, Elizabeth Weckman and Guillermo Rein, Imperial College London, UK	Yibing Xin, FM Global, USA	Zhu and Jinhua Sun, University of Science and Technology of China, China		
	10 50 11 25					
	10:50-11:25	Coffee Break - Room MA:10				
		MATERIAL BEHAVIOR IN FIRES - Room MA:7	FIRE SUPPRESSION - Room MA:4	TUNNEL FIRES - Room MA:6		
		Session Chairs: Isaac Leventon and Chris Lautenberger	Session Chairs: Andre Marshall and Simo Hostikka	Session Chairs: Haukur Ingason and Ying Zhen Li		
		Gravimetric Measurement Of Solid And Liquid Fuel Burning Rate Near And At The	Experimental Study Of The Effect Of Water Spray On The Spread Of Smoldering In			
	11:25 - 11:50	Low Oxygen Extinction Limit, Michael Johnston and James T'len, Case Western	Indonesian Peat Fires, Mohamad Lutfi Ramadhan, Pither Palamba, Fahri Ali Imran,	Spilled Liquid Fires In Tunnels, Haukur Ingason and Ying Zhen Li, Research		
5510 2:4(Reserve University, USA	Engkos Achmad Kosasih and Yulianto Sulistyo Nugroho, Universitas Indonesia,	Institutes of Sweden, Sweden		
Morning Session 2 11:25 - 12:40			Indonesia			
311ng		Flame Spread Limits (LOC) Of Fire Resistant Fabrics, Maria Thomsen, Daniel	Extinguishment And Enhancement Of Propane Cup-Burner Flames By Halon And	Modeling For Predicting The Temperature Distribution Of Smoke During A Fire		
10r 11	11:50 - 12:15	Murphy, Carlos Fernandez-Pello, David Urban and Gary Ruff, University of	Alternative Agents, Fumiaki Takahashi, Viswanath Katta, Gregory Linteris and	An Underground Road Tunnel With Vertical Shafts, Shota Takeuchi, Takayuki		
2		California Berkeley, USA	Valeri Babushok, Case Western Reserve University, USA	Aoki, Futoshi Tanaka and Khalid Moinuddin, University of Fukui, Japan		
		Char Cracking Of Medium Density Fibreboard Due To Thermal Shock Effect	Electrically Controlled Dynamic Sprinkler Activation: Computational Assessment	Fire Development In A 1/3 Train Carriage Mock-Up, Anders Lönnermark, Hauku		
	12:15 - 12:40	Induced Pyrolysis Shrinkage, Kaiyuan Li, Mahmoud Mousavi and Simo Hostikka,	Of Potential Efficiency, Alexander Snegirev, Peter the Great Saint-Petersburg	Ingason, Ying Zhen Li and Mia Kumm, Research Institutes of Sweden, Sweden		
	12.10.12.15	Aalto University, Finland	Polytechnic University, Russia	5, 5 · · · · · ,, · · · · · · , · · · ·		
	12:40 - 13:45	13:45 Lunch - Room MA:10				
	13-45 - 15-30	Poster Session I and Coffee Break (Room MA:9)				
	15.45 15.50	roster session rund conce break (Room rund)				
		MATERIAL BEHAVIOR IN FIRES - Room MA:7	FIRE SUPPRESSION - Room MA:4	FIRE DYNAMICS - Room MA:6		
		MATERIAL BEHAVIOR IN FIRES - Room MA:7 Session Chairs: Tuula Hakkarainen and Hiroyuki Torikai	FIRE SUPPRESSION - Room MA:4 Session Chairs: Jennifer Wen and Anthony Hamins	FIRE DYNAMICS - Room MA:6 Session Chairs: Grunde Jomaas and Daniel Alvear		
		Session Chairs: Tuula Hakkarainen and Hiroyuki Torikai	Session Chairs: Jennifer Wen and Anthony Hamins	Session Chairs: Grunde Jomaas and Daniel Alvear		
no	15:30 - 15:55	Session Chairs: Tuula Hakkarainen and Hiroyuki Torikai Enhanced Ignition Of Biomass In Presence Of NOx Ibukun Oluwoye, Bogdan	Session Chairs: Jennifer Wen and Anthony Hamins <i>Modeling Of Fire Suppression By Fuel Cooling</i> , Alexandre Jenft, Pascal Boulet,	Session Chairs: Grunde Jomaas and Daniel Alvear Predicting The Heat Release Rates Of Liquid Pool Fires In Mechanically Ventilat		
ession 5:45	15:30 - 15:55	Session Chairs: Tuula Hakkarainen and Hiroyuki Torikai	Session Chairs: Jennifer Wen and Anthony Hamins	Session Chairs: Grunde Jomaas and Daniel Alvear Predicting The Heat Release Rates Of Liquid Pool Fires In Mechanically Ventilat		
in Session - 16:45	15:30 – 15:55	Session Chairs: Tuula Hakkarainen and Hiroyuki Torikai <i>Enhanced Ignition Of Biomass In Presence Of NOx</i> Ibukun Oluwoye, Bogdan Dlugogorski, Jeff Gore and Mohammednoor Altarawneh, Murdoch University, Australia	Session Chairs: Jennifer Wen and Anthony Hamins <i>Modeling Of Fire Suppression By Fuel Cooling</i> , Alexandre Jenft, Pascal Boulet, Anthony Collin, Nicolas Trévisan, Pierre-Nicolas Mauger and Grégoire Pianet, CNPP, France	Session Chairs: Grunde Jomaas and Daniel Alvear Predicting The Heat Release Rates Of Liquid Pool Fires In Mechanically Ventilai Compartments, Topi Sikanen and Simo Hostikka, VTT Technical Research Centre Finland and Aalto University Finland		
noon Session :30 - 16:45	15:30 - 15:55 15:55 - 16:20	Session Chairs: Tuula Hakkarainen and Hiroyuki Torikai Enhanced Ignition Of Biomass In Presence Of NOx Ibukun Oluwoye, Bogdan Dlugogorski, Jeff Gore and Mohammednoor Altarawneh, Murdoch University, Australia Flammability Of CS2 And Other Reduced Sulfur Species, Zhe Zeng, Bogdan	Session Chairs: Jennifer Wen and Anthony Hamins <i>Modeling Of Fire Suppression By Fuel Cooling</i> , Alexandre Jenft, Pascal Boulet, Anthony Collin, Nicolas Trévisan, Pierre-Nicolas Mauger and Grégoire Pianet, CNPP, France Model Validation Of Spray-Plume Interaction, Eric Link, Taylor Myers, Arnaud	Session Chairs: Grunde Jomaas and Daniel Alvear Predicting The Heat Release Rates Of Liquid Pool Fires In Mechanically Ventilat Compartments, Topi Sikanen and Simo Hostikka, VTT Technical Research Centre Finland and Aalto University Finland Spread And Burning Behavior Of Continuous Spill Fires, Jinlong Zhao, Hong Hua		
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	15:55 - 16:20	Session Chairs: Tuula Hakkarainen and Hiroyuki Torikai Enhanced Ignition Of Biomass In Presence Of NOx Ibukun Oluwoye, Bogdan Dlugogorski, Jeff Gore and Mohammednoor Altarawneh, Murdoch University, Australia Flammability Of CS2 And Other Reduced Sulfur Species, Zhe Zeng, Bogdan Dlugogorski and Mohammednoor Altarawneh, Murdoch University, Australia Effectiveness Of Vertical Barriers In Preventing Lateral Flame Spread Over Exposed EPS Insulation Wall, Liang Zhou, Aiping Chen, Lei Gao and Zhifeng Pei,	Session Chairs: Jennifer Wen and Anthony Hamins Modeling Of Fire Suppression By Fuel Cooling, Alexandre Jenft, Pascal Boulet, Anthony Collin, Nicolas Trévisan, Pierre-Nicolas Mauger and Grégoire Pianet, CNPP, France Model Validation Of Spray-Plume Interaction, Eric Link, Taylor Myers, Arnaud Trouve and Andre Marshall, University of Maryland, USA A Droplet Evaporation Algorithm For Computational Fluid Dynamics, Jason Floyd	Session Chairs: Grunde Jomaas and Daniel Alvear Predicting The Heat Release Rates Of Liquid Pool Fires In Mechanically Ventilai Compartments, Topi Sikanen and Simo Hostikka, VTT Technical Research Centre Finland and Aalto University Finland Spread And Burning Behavior Of Continuous Spill Fires, Jinlong Zhao, Hong Hua Grunde Jomaas, Maohua Zhong and Yuntao Li, Tsinghua University, China, and University of Edinburgh, UK Motivation, drivers and barriers for a knowledge-based test environment in structural fire safety engineering science, Cristian Maluk, University of		
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Evening Arternoon Session Events 15:30 - 16:45	15:55 - 16:20 16:20 - 16:45	Session Chairs: Tuula Hakkarainen and Hiroyuki Torikai Enhanced Ignition Of Biomass In Presence Of NOx Ibukun Oluwoye, Bogdan Dlugogorski, Jeff Gore and Mohammednoor Altarawneh, Murdoch University, Australia Flammability Of CS2 And Other Reduced Sulfur Species, Zhe Zeng, Bogdan Dlugogorski and Mohammednoor Altarawneh, Murdoch University, Australia Effectiveness Of Vertical Barriers In Preventing Lateral Flame Spread Over Exposed EPS Insulation Wall, Liang Zhou, Aiping Chen, Lei Gao and Zhifeng Pei,	Session Chairs: Jennifer Wen and Anthony Hamins Modeling Of Fire Suppression By Fuel Cooling, Alexandre Jenft, Pascal Boulet, Anthony Collin, Nicolas Trévisan, Pierre-Nicolas Mauger and Grégoire Pianet, CNPP, France Model Validation Of Spray-Plume Interaction, Eric Link, Taylor Myers, Arnaud Trouve and Andre Marshall, University of Maryland, USA A Droplet Evaporation Algorithm For Computational Fluid Dynamics, Jason Floyd	Session Chairs: Grunde Jomaas and Daniel Alvear Predicting The Heat Release Rates Of Liquid Pool Fires In Mechanically Vent Compartments, Topi Sikanen and Simo Hostikka, VTT Technical Research Cen Finland and Aalto University Finland Spread And Burning Behavior Of Continuous Spill Fires, Jinlong Zhao, Hong H Grunde Jomaas, Maohua Zhong and Yuntao Li, Tsinghua University, China, an University of Edinburgh, UK Motivation, drivers and barriers for a knowledge-based test environment in structural fire safety engineering science, Cristian Maluk, University of		

SYMPOSIUM DAY 3 - Wednesday, 14 June 2017

	08:00	Registration Open (Room MA:9)				
		Invited Lecture # 3: Safe Evacuation for All - Fact or Fantasy? Past Experiences, Current Understanding and Future Challenges (Room Karhuset: Aula)				
	9:00 - 9:40	Karen Boyce, University of Ulster, UK				
		Session Chair: Ed Galea				
Morning Session 1 9:00 - 10:50		FIRE DYNAMICS - Room MA:7	FIRE EMISSIONS AND TOXICITY - Room MA:4	MATERIAL BEHAVIOR IN FIRES - Room MA:6		
		Session Chairs: Luke Bisby and Michael Spearpoint	Session Chairs: Anna Stec and Bogdan Dlugogorski	Session Chairs: Morgan Bruns and Rory Hadden		
	10:00 - 10:25	Using Suppression And Detection Devices To Steer CFD Fire Forecast Simulations, Wolfram Jahn, Pontificia Universidad Catolica de Chile, Chile	Sven Eric Magnusson Invited Lecture: Fire Toxicity – The Elephant In The Room?, Anna A Stec, University of Central Lancashire, UK	Opposed Flame Spread Over Horizontal And Vertical Wires: The Role Of Dripping And Core, Yoshinari Kobayashi, Xinyan Huang, Shinji Nakaya, Mitsuhiro Tsue and Carlos Fernandez-Pello, University of California Berkeley, USA		
	10:25 - 10:50	Thermal Characteristics Of Externally Venting Flames And Their Effect On The Exposed Façade Surface, Eleni Asimakopoulou, Dionysios Kolaitis and Maria Founti, National Technical University of Athens, Greece	Characterization Of Aerosols Emissions From The Combustion Of Dead Shrub Twigs And Leaves Using A Cone Calorimeter, Lara Leonelli, Toussaint Barboni, Paul Antoine Santoni, Yann Quilichini and Alexis Coppalle, University of Corsica and CORIA/INSA Rouen, France	Heat Release Characteristics Of Ethanol-Water Mixtures: Small Scale Experiments, Tuula Hakkarainen, Timo Korhonen and Jukka Vaari, VTT Technical Research Centre of Finland, Finland		
	10:50-11:25	Coffee Break - Room MA:10		• •		
		FIRE DYNAMICS - Room MA:7 Session Chairs: Luke Bisby and Michael Spearpoint	FIRE EMISSIONS AND TOXICITY - Room MA:4 Session Chairs: Anna Stec and Bogdan Dlugogorski	EVACUATION AND HUMAN BEHAVIOR - Room MA:6 Session Chairs: Daniel Nilsson and Erica Kuligowski		
on 2 D	11:25 - 11:50	Effects Of Exposed Engineered Timber On Compartment Fire Dynamics, Rory Hadden, Alastair Bartlett, Juan Hidalgo, Simón Santamaria, Felix Wiesner, Luke A. Bisby, Susan Deeny and Barbara Lane, University of Edinburgh and Arup, UK	Fire Toxicity Of Common Polymers In Under-Ventilated Fires In The Large Instrumented Fire Enclosure (Life), T Richard Hull, Anna A Stec, Robert J Crewe and Ashleigh G Lyons, University of Central Lancashire, UK	Evaluating The Effectiveness Of An Improved Active Dynamic Signage System Using Full Scale Evacuation Trials, Edwin Galea, Hui Xie, Steven Deere, David Cooney and Lazaros Filippidis, University of Greenwich, UK		
Morning Session 2 11:25 - 12:40	11:50 - 12:15	Auto-Extinction Of Engineered Timber: Application To Compartment Fires With Exposed Timber Surfaces, Alastair Bartlett, Rory Hadden, Juan Hidalgo, Simón Santamaria, Felix Wiesner, Luke Bisby, Susan Deeny and Barbara Lane, University of Edinburgh, UK	Experimental And Numerical Analysis To Estimate The Influence Of Soot Yield In CFD Analysis, Wojciech Węgrzyński and Gabriele Vigne, Building Research Institute, Poland, and JVVA Fire & Risk, Spain	Noticeability Of Illuminated Route Signs For Tsunami Evacuation, Kensuke Yasufuku, Yuki Akizuki, Akihiko Hokugo, Yoshio Takeuchi, Akira Takashima, Toshinari Matsui, Hirotaka Suzuki and Abel Taiti Konno Pinheiro, Osaka University, Japan		
-	12:15 - 12:40	Description Of Small And Large-Scale CLT Fire Tests, Richard Emberley, Carmen Gorska, Aaron Bolanos, Andrea Lucherini, Angela Solarte, Diana Soriguer, Mateo Gutierrez, Kathryn Humphreys, Juan Hidalgo, Cristian Maluk, Angus Law and Jose Torero, University of Queensland, Australia	Early Fire Detection: Are Hydrogen Sensors Able To Detect Smouldering Fires?, Simone Krüger, Marie-Claire Despinasse, Tina Raspe, Kai Nörthemann and Werner Moritz, Bundesanstalt für Materialforschung und –prüfung (BAM), Germany	Real-Time Evacuation Route Selection Method For Complex Buildings , Arturo Cuesta, Orlando Abreu, Adriana Balboa and Daniel Alvear, University of Cantabria, Spain		
	12:40 - 13:45	Lunch - Room MA:10				
		FIRE DYNAMICS - Room MA:7 Session Chairs: Hugues Prétrel and Nils Johansson	WILDLAND FIRES - Room MA:4 Session Chairs: Naian Liu and Elsa Pastor	EVACUATION AND HUMAN BEHAVIOR - Room MA:6 Session Chairs: Rita Fahy and Ai Sekizawa		
Afternoon Session 1 13:40 - 15:00	13:45 - 14:10	Predicting The Structural Response Of A Compartment Fire Using Full-Field Heat Transfer Measurements, Jonathan Hodges, Christian Rippe, Scott Case and Brian Lattimer, Virginia Tech. and Jensen Hughes, USA	Experiments To Provide The Scientific-Basis For Laboratory Standard Test Methods For Firebrand Exposure, Sayaka Suzuki and Samuel Manzello, National Institute of Standards and Technology (NIST), USA	Transparency Vs Magic Numbers: The Development Of Stair Design Requirement In The Italian Fire Safety Code, Emanuele Gissi, Enrico Ronchi and David Anthony Purser, Lund University, Sweden		
	14:10 - 14:35	The Intermittent Characteristic Of Flame Ejecting From A Compartment With Simultaneous Door And Window Opened Under Ambient Wind Environment, Man Li, Zihe Gao, Jie Ji, Kaiyuan Li and Jinhua Sun, University of Science and Technology of China, China	Verification Of Lagrangian Particle Model For Short-Range Firebrand Transport , Rahul Wadhwani, Duncan Sutherland, Andrew Ooi, Khalid Moinuddin and Graham Thorpe, Victoria University, Australia	Perspectives Of Occupants With Mobility Impairments On Elevators For Evacuation During Fire Emergencies, Kathryn Butler, Erica Kuligowski, Susanne Furman and Richard Peacock, National Institute of Standards and Technology (NIST), USA		
	14:35 - 15:00	A Small-World Network Model For The Simulation Of Fire Spread Onboard Naval Vessels, Ahmed Kacem, Christine Lallemand, Nathalie Giraud, Maxime Mense, Matthieu De Gennaro, Yannick Pizzo, Jean-Claude Loraud, Pascal Boulet and Bernard Porterie, University of Aix-Marseille, France	Mapping Areas At Elevated Risk Of Large-Scale Structure Loss Using Monte Carlo Simulation And Wildland Fire Modeling, Chris Lautenberger, Reax Engineering Inc., USA	Evacuation Speed In Full-Scale Darkened Tunnel Filled With Smoke , Miho Seike, Nobuyoshi Kawabata and Masato Hasegawa, National Science and Technology Center for Disaster Reduction, Taiwan		
		Coffee Break - Room MA:10				
	15:30 - 17:00	IAFSS Membership Business Meeting (Room Kårhuset:Aula)				
Evening Events	19:00 - 21:00	IAFSS Management Committee Meeting - Time may change (Meeting Room K århuset:Hollywood)				
Eve	17:30 - 20:30	Women in Fire Safety Science (Room MA:7) - everyone is welcome				

SYMPOSIUM DAY 4 - Thursday, 15 June 2017

08:00	Registration Open (Room MA:9)				
	Luke Bisby, University of Edinburgh, UK				
	FIRE DYNAMICS - Room MA:7	WILDLAND FIRES - Room MA:4	STRUCTURES IN FIRE - Room MA:6		
	Session Chairs: Randall McDermott and Ricky Carvel	Session Chairs: Dominique Morvan and Sayaka Suzuki	Session Chairs: Cristian Maluk and Brian Lattimer		
	Study Of FDS Simulations Of Buoyant Fire-Induced Smoke Movement In A High-	Investigating Coherent Streaks In Wildfires Via Heated Plates In Crosswind, Colin	A Critical Review Of "Travelling Fire" Scenarios For Performance-Based Structura		
10:00 - 10:25			Engineering, Xu Dai, Stephen Welch and Asif Usmani, University of Edinburgh, UK		
	University, Belgium	Maryland, USA			
	Improvement Of Two-Layer Zone Model By Simple Modeling Of Ceiling Jet For	Intermittent Heating And Flame Extension In Wind-Driven Fires, Wei Tang, Daniel	Experimental Assessment Of The Lateral Load Capacity Of Steel-Sheathed Cold-		
10:25 - 10:50	Applying To Horizontal Large Building Room In Fire, Tomoaki Nishino, Building	Gorham, Mark Finney, Sara McAllister, Jack Cohen, Jason Forthofer and Michael	Formed Steel Shear Walls Subjected To Fire, Matthew Hoehler, Christopher Smith Tara Hutchinson, Xiang Wang, Brian Meacham and Praveen Kamath, National		
	Research Institute (BRI), Japan	Gollner, University of Maryland, USA	Institute of Standards and Technology (NIST), USA		
10:50-11:25	Coffee Break - Room MA:10				
		WILDLAND FIRES - Room MA:4	STRUCTURES IN FIRE - Room MA:6		
	Session Chairs: Randall McDermott and Ricky Carvel	Session Chairs: Dominique Morvan and Sayaka Suzuki	Session Chairs: Cristian Maluk and Brian Lattimer		
	Internations Detuces Mater Course And Courses Filling In Case Of A Fire Frant In A	Evaluation Of A Data-Driven Wildland Fire Spread Forecast Model With Spatially-	Ontimining Design Desiging Marking Fox Steel Structures in Fire Using A United		
		Distributed Parameter Estimation In Simulations Of The Fireflux I Field-Scale	Optimising Design Decision-Making For Steel Structures In Fire Using A Hybrid Analysis Technique, Obinna Akaa, Anthony Abu, Michael Spearpoint and Sonia		
		Experiment, Cong Zhang, Mélanie Rochoux, Wei Tang, Michael Gollner, Jean-	Giovinazzi, University of Canterbury, New Zealand		
			Uncertainty Propagation In Fe Modelling Of A Loaded Steel Beam Exposed To Fir		
			Using Factorial Design And Deterministic Sampling, Kim Olsson, Johan Anderson		
	Wang, FM Global, USA	Planas, Universitat Politecnica de Catalunya - Barcelona l'ech, Spain	and David Lange, Research Institutes of Sweden, Sweden		
	Fire-Induced Pressure And Smoke Spreading In Mechanically Ventilated Buildings	Real-Time Simulation Of Wildland Fire Spread, Matthieu De Gennaro, Yann	Impacts Of Melting And Burnout Of PP Fiber On Air Permeability And Physical Properties Of High-Strength Concrete, Jaeyoung Lee, Keisuke Terada, Masahiro		
12:15 - 12:40	With Air-Tight Envelopes, Simo Hostikka, Rahul Kallada Janardhan, Umar Riaz and	Billaud, Yannick Pizzo, Savitri Garivait, Jean-Claude Loraud, Mahmoud El Hajj and	Yamazaki and Kazunori Harada, Tokyo University of Science and Kyoto University		
	Topi Sikanen, Aalto University, Finland	Bernard Porterie, University of Aix-Marseille, France	Japan		
12:40 - 13:45	Lunch - Room MA:10				
13:45 - 15:30	Poster Session II and Coffee Break (Room MA:9)				
			EVACUATION AND HUMAN BEHAVIOR - Room MA:6		
			Session Chairs: Karen Boyce and Weiguo Song		
			A Forensic Analysis Of A Fatal Fire In An Indoor Shooting Range Using Coupled		
			Fire And Evacuation Modelling Tools, Zhaozhi Wang, Fuchen Jia, Edwin Galea and		
	Abecassis-Empis and Adam Cowlard, University of Queensland, Australia	Yawei Chen, Kumar Aanjaneya and Arvind Atreya, University of Michigan, USA	Jun-Ho Choi, University of Greenwich, UK		
	Stachastic Modeling of Eirobrand Shower Scongrigs, Ali Tobidi, Nigel Kove	Determination Of Energy Characteristics For The Particles Moving In The Gas	Pedestrian Merging Behavior Analysis: An Experimental Study, Liping Lian, Xu		
15:55 - 16:20		Flow Under Laboratory Conditions, Vladimir Fateev, Michail Agafontsev, Sergey	Mai, Weiguo Song, Kwok Kit Richard Yuen, Rui Ye and Sha Jin, University of Science		
		Volkov and Alexander Filkov, University of Melbourne, Australia	and Technology of China, China		
			Human Behaviour During Evacuation Of Primary Schools: Investigations On Pre-		
16.00 16.15			Movement, Movement On Stairways, Movement On The Horizontal Plane And		
16:20 - 16:45		· · · · · · · · · · · · · · · · · · ·	Evacuation Behaviours, Glenn Hamilton, Patrick Lennon and John O'Raw,		
			Letterkenny Institute of Technology, Ireland		
18:00-20:00	Symposium Banquet - awards (I Iniversity Aula)				
18:00-20:00	Symposium Banquet - awards (University Aula)				
	9:00 - 9:40 10:00 - 10:25 10:25 - 10:50 10:50-11:25 11:25 - 11:50 11:50 - 12:15 12:15 - 12:40 12:40 - 13:45 13:45 - 15:30 15:30 - 15:55	10:00 - 9:40 Invited Lecture # 4: Structural Response of Cross-Laminated Timber Compression 1 9:00 - 9:40 Luke Bisby, University of Edinburgh, UK Session Chair: Bart Merci FIRE DYNAMICS - Room MA:7 Session Chair: Bard Micro Session Chair: Bard Micro 10:00 - 10:25 Study Of FDS Simulations Of Buoyant Fire-Induced Smoke Movement In A High-Rise Building Stairwell, Guoxiang Zhao, Tarek Beji and Bart Merci, Ghent 10:00 - 10:25 Improvement Of Two-Layer Zone Model By Simple Modeling Of Ceiling Jet For 10:25 - 10:50 Improvement Of Two-Layer Zone Model By Simple Modeling Of Ceiling Jet For 10:25 - 10:50 Improvement Of Two-Layer Zone Model By Simple Modeling Of Ceiling Jet For 10:25 - 10:50 Improvement Of Two-Layer Zone Model By Simple Modeling Of Ceiling Jet For 10:50-11:25 Coffee Break - Room MA:10 FIRE DYNAMICS - Room MA:7 Session Chairs: Randall McDermott and Ricky Carvel 11:25 - 11:50 Interactions Between Water Sprays And Smoke Filling In Case Of A Fire Event In A 11:25 - 11:50 Interactions Between Water Sprays And Smoke Filling In Case Of A Fire Event In A 11:25 - 11:50 Interactions Between Water Sprays And Smoke Filling In Case Of A Fire Event In A 11:25 - 12:40 Interactions Between Water Sprays And Smoke Spreading In Mechanically Ventilated Buildings 12:15 - 12:4	Invited Lecture # 4: Structural Response of Cross-Laminated Timber Compression Elements Exposed to Fire (Room Kårhuset:Aula) 9:00 -9:40 Like Bibky, Uhiversity of Edinburgh, UK Session Chair: Sandli Medri WILDAND FIRES - Room MA:4 Session Chair: Sandli McDermott and Ricky Carvel Session Chair: Sandli McDermott and Ricky Carvel Study Of FOS Simulations Of Buoyant Fire-Induced Snoke Movement In A High- Investigating Concernet Streaks In Wildfires Via Heated Plates In Crosswind, Colin Waryland, USA 10:00 -10:25 Rise Building Storing Zhao, Tarek Beij and Bart Merci, Ghent University, Beigium Intermittent Heating And Flome Extension In Wind-Driven Fires, Wei Tang, Daniel Gollner, University of Maryland, USA 10:25 -10:50 Applying To Horizontal Large Building Born In Fire, Tomoaki Nishino, Building Research Institute (BRI), Japan WILDAND FIRES - Room MA:1 10:50-11:25 Coffee Break - Room MA:10 WILDAND FIRES - Noom MA:4 FIRE DYNAMICS - Room MA:10 WILDAND FIRES - Noom MA:4 11:25 - 11:50 Cosed And Mechanically Perturbation Room Price Times (RSN), France WILDAND FIRES - Noom MA:4 11:25 - 11:50 Cosed And Mechanically Perturbation Room Now, Warger Syres And Smoke Filing In Case Of A Fire Event In Rod Bolau, USA Maryland, USA 11:25 - 11:50 Cosed And Mechanically Perturbation Fram Numerical Simulations Of Celling And Room Nacita Evente Mutersity of Maryland, USA Fire Hind		

SYMPOSIUM DAY 5 - Friday, 16 June 2017

	08:00	Registration Open (Room MA:9)			
Morning Session 1 9:00 - 10:50	9:00 - 9:40	Invited Lecture # 5: Studies on Accidental Gas and Dust Explosions (Room Kår Ritsu Dobashi, University of Tokyo, Japan Session Chair: Naian Liu	1d Dust Explosions (Room Kårhuset:Aula)		
		FIRE DYNAMICS - Room MA:7 Session Chairs: Ken Matsuyama and Colleen Wade	WILDLAND FIRES - Room MA:4 Session Chairs: Sam Manzello and Sara McAllister	STRUCTURES IN FIRE - Room MA:6 Session Chairs: Ann Jeffers and Charles Fleischmann	
	10:00 - 10:25	Spectral Radiation Intensities Of A Turbulent Buoyant Ethylene Flame: CFD- Aided Tomographic Inversion, Dong Zeng, Marcos Chaos and Yi Wang, FM Global, USA	Self-Ignition Of Natural Fuels: Can Wildfires Of Carbon-Rich Soil Start By Self- Heating?, Francesco Restuccia, Xinyan Huang and Guillermo Rein, Imperial College London, UK	Modeling Post-Fire Behavior Of Aluminum Structural Components Using A Maximum Temperature Approach, Christian Rippe, Scott Case and Brian Lattimer, Jensen Hughes, USA	
W	10:25 - 10:50	Grouping Strategies For MPS Soot Transport Model And Its Application In Large-Scale Enclosure Fires, Xiaoqin Hu, Fuchen Jia, Zhaozhi Wang and Edwin R. Galea, Stord/Haugesund University College, Norway	Experimental Investigation Of The Impact Of Oxygen Flux On The Burning Dynamics Of Forest Fuel Beds, Jan C. Thomas, Rory M. Hadden and Albert Simeoni, University of Edinburgh, UK	An Experimental Study On The Temperature And Structural Behavior Of A Concrete Wall Exposed To Fire After A High-Velocity Impact By A Hard Projectile, Takeshi Morita, Masuhiro Beppu and Makoto Suzuki, Shimizu Corporation, Japan	
	10:50-11:25	1:25 Coffee Break - Room MA:10			
		FIRE DYNAMICS - Room MA:7 Session Chairs: Ken Matsuyama and Colleen Wade	WILDLAND FIRES - Room MA:4 Session Chairs: Sam Manzello and Sara McAllister	STRUCTURES IN FIRE - Room MA:6 Session Chairs: Ann Jeffers and Charles Fleischmann	
Session 2 - 12:40	11:25 - 11:50	An Experimental Study On Backdraught: The Dependence On Temperature, Chia Lung Wu and Ricky Carvel, University of Edinburgh, UK	Fire Behavior in Two Pine Stands: Quantification of Global Fire Properties, Eric Mueller, Nicholas Skowronski, Kenneth Clark, Michael Gallagher, Robert Kermens, Jan Thomas, Mohamad El Houssami, Alexander Filkov, Rory Hadden, William Mell and Albert Simeoni, University of Edinburgh, UK	Fire Response Of Exterior Reinforced Concrete Beam-Column Subassemblage: Mohammad Mahdi Raouffard, Luis Alberto Bedrinana and Minehiro Nishiyama Kyoto University, Japan	
Morning Ses 11:25 - 12	11:50 - 12:15	Risk Assessment Of Unburnt Gas Ignition In An Exhaust System Connected To A Confined And Mechanically Ventilated Enclosure Fire, Hui Ying Wang and Jean Pierre Garo, University of Poitiers, France	Investigation Of Thermal Degradation Of Pine Needles Using Multi-Step Reaction Mechanisms, Salah Benkorichi, Talal Fateh, Franck Richard, Jean-Louis Consalvi and Ali Nadjai, Ulster University, UK	Structural Response Of A Steel-Frame Building To Travelling Fires In Multiple Floors, Egle Rackauskaite, Panos Kotsovinos and Guillermo Rein, Imperial College London, UK	
Mc	12:15 - 12:40	Mobile Gas Cylinders In Fire: Consequences In Case Of Failure, Rico Tschirschwitz, Daniel Krentel, Martin Kluge, Enis Askar, Karim Habib, Harald Kohlhoff, Patrick P. Neumann, Sven-Uwe Storm, Michael Rudolph, André Schoppa and Mariusz Szczepaniak, Bundesanstalt für Materialforschung und –prüfung (BAM), Germany	A Computational Study Of The Interactions Of Three Adjacent Burning Shrubs Subjected To Wind, Satyajeet Padhi, Babak Shotorban and Shankar Mahalingam, University of Alabama, USA	Determination Of Fire Resistance Ratings For Glulam Connectors Within Us High Rise Timber Buildings, David Barber, Arup, USA	