

Programme Day 1, 17th August 2017

08.00-08.45	Coffee and Registration
08.45-09.00	Welcome to the Nordic Fire and Safety Days
	Room: ACM15 <i>Anne Dederichs</i>
09.15-10.00	Key Lecture
	Room: ACM15
	Furniture fire properties and their importance for domestic fire safety. <i>Dr. Jürgen Troitzsch, FEPS, Switzerland</i>
10.00-10.45	Panel Discussion
	Room: ACM15
	<i>Session Chair: Björn Sundström</i>
	Furniture fire properties and their importance for domestic fire safety. <i>Dr. Jürgen Troitzsch, FEPS, Switzerland</i> <i>Egil Sundet, Head of the Sector furniture, interior and design for the federation of Norwegian Industry</i> <i>Dr. David Santillo, Honorary Research Fellow at Greenpeace Research Laboratories, Exeter University, UK</i> <i>Dr. Anne Elise Steen-Hansen, Research manager at RISE Fire Research, Norway</i> <i>Dr. Björn Karlsson, Professor at Iceland University and the Director General at Iceland Construction Authority</i>



11.00-12.00		Parallel Session A		
	Fire Dynamics 1	Risk 1	Evacuation	
	Room: ACM15 1.001	Room: ACM15 1.008	Room: FKJ 12 0.06	
	Session Chair: <i>Ulf Wickström</i>	Session Chair: <i>Frank Markert</i>	Session Chair: <i>Aldis R. Larusdottir</i>	
11.00-11.15	Fire protection of extensive green roofs <i>A. Elias, D. Håkansson Lund University and Brandskyddslaget AB</i>	Modelling approach for the threat quantification of cascading failures <i>A. Helminen, T. Hakkarainen, VTT Technical Research Centre of Finland Ltd</i>	The effect of platform- and tunnel design on the evacuation performance of wheelchair users - A qualitative study <i>E-S. Karlsson, M.Kumm, A S. Dederichs, Research Institutes of Sweden, Niclas Ahnberg, Brandskyddslaget</i>	
11.20-11.35	USCG Fire simulation of water mist suppression using an ignition source <i>E. A. Kolstad, Western Norway University of Applied Science, B. P. Husted, Lund University</i>	Developing a risk and capability assessments methodology for the Baltic Sea Region <i>B. Karlsson, University of Iceland</i>	Reaction and decision time of evacuees - A study regarding the influence of alcohol on the reaction and decision time <i>P. B. Rask, The Danish Institute of Fire and Security Technology, A. Dederich, Research Institutes of Sweden and Technical University of Denmark</i>	
11.40-11.55	Development tool for ETICS façade fire testing <i>A. Dragsted, M. Meinert, Danish Institute of Fire Technology, M.S. McLaggan, P. van Hees, Lund University</i>	Fire safety decision making under a systems-theoretic safety paradigm <i>H. Bjelland, Multiconsult, O. Njå, University of Stavanger, A. W.Heskestad, Norwegian Railway Directorate G. S. Braut, Stavanger University Hospital</i>	Awareness of fire risk reduction among Cyprus international university (CIU) students <i>A. F. Gyasi, Cyprus International University</i>	
12.00-13.00		Lunch & Exhibition		

13.00-14.00		Parallel Session B		
	Fire Dynamics 2	Transportation	Fire safety science without borders	
	Room: ACM15 1.001	Room: ACM15 1.008	Room: FKJ 12 0.06	
	<i>Session Chair: Frida V Lundström</i>	<i>Session Chair: Martyn S. McLaggan</i>	<i>Session Chair: Patrick van Hees</i>	
13.00-13.15	Desensitisation of optical flame detection in harsh external environments <i>J. McNay, Micropack (Engineering) Ltd.</i>	Ventilation in tunnels: a numerical comparison between different modelling approaches <i>P. Matteo, X. Deckers, Fire Engineered Solutions Ghent</i>	Fire safety science without borders <i>T. Gell, Brandforsk & Swedish Fire Protection</i>	
13.20-13.35	Heat release characteristics of ethanol-water mixtures <i>T. Hakkarainen, VTT Technical Research Centre of Finland Ltd</i>	Fire detection in engine compartments <i>P. Karlsson, O. Willstrand, Research Institutes of Sweden</i>	Fire safety's contribution to a sustainable society <i>T. Gell, Brandforsk & Swedish Fire Protection Association, K. H. Almand, National Fire Protection Association</i>	
13.40-13.55	Fire-induced pressures in modern airtight apartment building <i>S. Hostikka, R. K. Janardhan, U. Riaz, Aalto University, T. Sikanen, VTT Technical Research Centre of Finland Ltd.</i>	Verifying fire safety in tall timber buildings <i>F. Nystedt, J. Norén, Briab</i>	Det store brannløftet <i>E. Schiefloe, Research Council Norway</i>	
14.00-14.45		Coffee & Exhibition		

14.45-15.45			
Parallel Session C			
	Fire Dynamics 3	Fire Safety Engineering 1	Brokerage Event 1: Carpark fires
	Room: ACM15 1.001	Room: ACM15 1.008	Room: FKJ 12 0.06
	<i>Session Chair: Tuula Hakkarainen</i>	<i>Session Chair: Michael Strömgren</i>	<i>Session Chair: Anne Dederichs</i>
14.45-15.00	Smouldering fires in wood pellets: the effect of varying the airflow <i>V. R. Valdés, NTNU, R. F. Mikalsen, A. Steen-Hansen, RISE Fire Research</i>	Performance based design and compilation <i>M. Strömgren, Research Institutes of Sweden</i>	14.45-14.50 Presentation of the topic by Luisa Giuliani, Technical University of Denmark
15.05-15.20	Modelling and stochastic analyses of travelling fires <i>R. K. Janardhan, S. Hostikka, Aalto University</i>	Wildland fires <i>F.V.Lundström, J. Sjöström, Research Institutes of Sweden, A. Granström, Dept. of forest ecology and management- SLU</i>	14.50-15.00 Presentation of funding possibilities Anne Dederichs,
15.25-15.40	Photovoltaic installations on warehouse buildings - an experimental study of the propagation of fire <i>J. Steemann Kristensen, DTU – Technical University of Denmark</i>	A discussion on learning from fire investigations; concepts and methodologies <i>A. Borg, PiD Solutions, O. Njå, University of Stavanger</i>	15.00-15.40 Open project preparation
15.45-16.00	Conference Photo		
16.00-16.30	Coffee & Exhibition		
16.30-18.30	Social event		
20.00-03.00	After conference dinner		

Programme Day 2, 18th August 2017

08.30-08.40	Welcome
08.40-09.20	Key Lecture
	Room: ACM15
	Fire brigade intervention method – accounting for the actions of the fire service <i>Ed Claridge, Principal Fire Engineer, Auckland, New Zealand</i>
09.25-10.10	Panel Discussion
	Room: ACM15 Session Chair: <i>Stefan Särdaqvist</i>
	Fire brigade intervention– accounting for the actions of the fire service <i>Ed Claridge, Principal Fire Engineer, Auckland, New Zealand</i> <i>Rasmus Storgaard Petersen, CEO Emergency Service East, Denmark</i> <i>Hans Kristian Madsen, Head of Department of fire at the Directorate for Civil Protection and Emergency in Norway (DSB)</i> <i>Mia Kumm, Licentiate of engineering and researcher at Research Institutes of Sweden and Mälardalen University, Sweden</i>

10.15-11.30		Parallel Session D		
	Residential Fires 1	Fire safety engineering 3	Fire Dynamics 4	
	Room: ACM15 1.001	Room: ACM15 1.008	Room: FKJ 12 0.06	
	Session Chair: Thomas Gell	Session Chair: Petter Gryten Almkov	Session Chair: Karlis Livkiss	
10.15-10.30	Socioeconomic differences in residential fire mortality in Sweden: a case-control study <i>A. Jonsson, Centre for Public Safety, Karlstad University, and The Swedish Civil Contingencies Agency</i>	Learning points from real incidents – learning from what? <i>M. Bøhm, Metropolitan University College, O. Njå, University of Stavanger</i>	Measuring incident heat flux and adiabatic surface temperature with plate thermometers in ambient and high temperatures <i>U. Wickström, Luleå University of Technology, J. Anderson, J. Sjöström, Research Institutes of Sweden</i>	
10.35-10.50	Fire fatalities in Norway <i>K. Storesund, C. Sesseng, A. Steen-Hansen, RISE Fire Research</i>	Integration of fire engineering tools and calculation methodologies <i>P. Tofilo, Main School of Fire Service SciRisk Engineering</i>	Simulation of smouldering combustion based on multi-layer cellular automata <i>N. Fernandez-Anez, K. Christensen, G. Rein, Imperial College London</i>	
10.55-11.10	Has fire-related mortality in Sweden changed over time? <i>E. Lindahl, J. Hedberg, Lund University</i>	Learning fire and rescue work by experience-sharing <i>A. Sadeghi, University of Stavanger</i>	Aerosols from smoldering <i>E. Villacorta, Western Norway University of Applied Sciences, N. Bluvshstein, Department of Earth and Planetary Sciences Weizmann Institute of Science</i>	
11.15-11.30	Toxic emissions, human absorption pathways, smoke poisoning and longterm health effects due to combustion of plastics in modern buildings <i>L. Schiøtt Sørensen, Danish Building Research Institute (SBI), Aalborg University</i>	Objectifying performance based design in buildings by a probabilistic approach. <i>X. Deckers, Fire Engineered Solutions Ghent</i>	Reaction to fire of glass/hemp/ furan composites <i>F. Markert, Danmarks Tekniske Universitet</i>	
11.30-12.30		Lunch & Exhibition		



12.30-13.30 Parallel Session E			
	Management of rescue service 1	Risk 2	Structural Fire Safety 1
	Room: ACM15 1.001	Room: ACM15 1.008	Room: FKJ 12 0.06
	<i>Session Chair: Anne Elise Steen-Hansen</i>	<i>Session Chair: Ove Njå</i>	<i>Session Chair: Luisa Giuliani</i>
12.30-12.45	Part time firemen and community resilience <i>P. Almklov, M. Nilsen, G. Gjørund, Studio Apertura, NTNU Social Research</i>	Resilient Buildings C-Fort, <i>M. Kumm, Research Institutes of Sweden</i> Finns inte i lista och finns inte abstract	Risk analysis and performance-based structural fire expertise of a semi-buried railway station <i>E. Tonicello, Ingénierie et Sécurité Incendie, S. Deshanghere, Efectis Outlabs</i>
12.50-13.05	Environmental impact of structure fires and fire service response <i>F. Amon, L. Vylund, Research Institutes of Sweden</i>	Firesafe - Study investigating cost effective measures for reducing the risk from fires on ro-ro passenger ships <i>J. Wikman, M. Rahm, F. Evegren, Research Institutes of Sweden</i> <i>J. Leroux, A. Breuillard, Bureau Veritas, M. Kjellberg, L. Gustin, F. Eframsson, Stena Rederi AB</i>	Experimental study on the mechanical properties of fire exposed concrete <i>A. Zawadowska, L. Giuliani, K. D. Hertz, Technical University of Denmark</i>
13.10-13.25		False alarm - An organizational study of the effects of false alarms <i>G. Gjørund, P. Almklov, NTNU, C. Sesseng, RISE Fire Research</i>	Fire protection of wooden houses in several floors <i>J. N. Olsen, ETA-Danmark A/S, H. S. Fishman, Rønslev</i>
13.30-14.15 Coffee & Exhibition			

14.15-15.15			
Parallel Session F			
	Management of rescue service 2	Fire safety engineering 2	Structural Fire Safety 2
	Room: ACM15 1.001	Room: ACM15 1.008	Room: FKJ 12 0.06
	<i>Session Chair: Lars Schiøtt Sørensen</i>	<i>Session Chair: Topi Sikanen</i>	<i>Session Chair: Simo Hostikka</i>
14.15-14.30	Security officers responding to residential fire alarms: modelling the effect on survival and property damages <i>B. Sund, H. Jaldell, Karlstad University</i>	99 years of standard fire - success of failure? <i>R. Jansson McNamee, Brandskyddslaget</i>	Furnace setup for preliminary fire resistance testing <i>P. Hejtmánek, V. Flídr, Faculty of Civil Engineering, CTU Prague, H. Najmanová, University Centre for Energy Efficient Buildings CTU Prague</i>
14.35-14.50	Three different fire suppression approaches used by Fire and Rescue services <i>S. Särdaqvist, Swedish Civil Contingencies Agency</i>	A Swedish approach to define a standard for fire safety design in BIM <i>F. Nystedt, J. Norén, Briab</i>	Investigation of eurocodes design fires and national deviations <i>F. Clausen, L. Giuliani, Technical University of Denmark</i>
14.55-15.10	An operationalization of capabilities for fire and rescue operations <i>M. Runefors, Lund University</i>	Nordic standard for review & control of fire safety engineering <i>F. Nystedt, J. Norén, M. Strömgren, Briab</i>	Material modeling of concrete under compression and high temperatures <i>A. F. Damkjær, L. Giuliani, K. D. Hertz, Technical University of Denmark</i>

15.10-15.30	Coffee & Exhibition		
15.30-16.30	Parallel Session G		
	Residential Fires 2	Structural Fire Safety 3	Fire Dynamics 5
	Room: ACM15 1.001	Room: ACM15 1.008	Room: FKJ 12 0.06
	<i>Session Chair: Björn Karlsson</i>	<i>Session Chair: Pierrick Mindykowski</i>	<i>Session Chair: Michael Försth</i>
15.30-15.45	Residential fires in Denmark <i>P. B. Gummesen, Technical University of Denmark, A. S. Dederichs, Technical University of Denmark and Research Institutes of Sweden</i>	On analysing structures based solely on human safety <i>J. Sandström, J. Thor, R. Jansson McNamee, O. Lagerqvist, U. Wickström, Luleå tekniska universitet, Brandskyddslaget AB, ProDevelopment AB Luleå, Sweden</i>	USCG Fire simulation of water mist suppression using an ignition source <i>E. A. Kolstad, Western Norway University of Applied Science, B. P. Husted, Lund University</i>
15.50-16.05	Residential fire solutions in the building sector <i>F. Shaukat, F. Markert, Technical University of Denmark</i>	Post-earthquake fire behavior of steel frames - Part I: Collapse Mechanism <i>G. Risco, L. Giuliani, V. Zania, Technical University of Denmark</i>	Validation of FDS on the SP retail store <i>S. Ahmed, B. P. Husted, Lund University</i>
16.10-16.25	Towards an evidence-based vision zero policy on residential fires - an update <i>R. Andersson, Karlstad University, A. Jonsson, Karlstad University and The Swedish Civil Contingencies Agency</i>	Post-earthquake fire behavior of steel frames - Part II: The effect of the insulation <i>A. Wrobel, L. Giuliani, V. Zania, Technical University of Denmark</i>	Validation of sub-grip scale particle model for cable fire spread <i>T. Sikanen, A. Matala, VTT Technical Research Centre of Finland Ltd, S. Hostikka, Aalto University</i>
16.30-16.45	Closing session		

16.45-17.40	Brokerage Event 2: Modern Building Fires
	Room: ACM15
	<i>Session Chair: Anders Bergqvist</i>
16.45-16.50	Presentation of the topic by <i>Lars Schiøtt Sørensen, Technical Universty of Denmark</i>
16.50-17.00	Presentation of funding possibilities <i>Thomas Gell</i>
17.00-17.40	Open project preparation

