



2nd SFPE EUROPE FIRE SAFETY ENGINEERING CONFERENCE & EXPO

5-6 February 2018

Hilton - Rotterdam, The Netherlands

Saturday, 3 February	
0800-1730 Coolsignal	SFPE Board of Director's Meeting
1830-2100 TBD	SFPE Board Dinner
Sunday, 4 February	
0730-1730 Upper Lobby	Registration
0800-1530 Coolsignal	SFPE Board of Director's Meeting
1530-1730 Coolsignal	Joint SFPE Board of Director's and SFPE Europe Meeting
1500-1700 Upper Lobby	Expo Setup
1730-1930 Upper Lobby	Opening Reception
Monday, 5 February	
0700-0800 Upper Lobby	Additional Expo Setup
0800-0900 Upper Lobby	Morning Coffee Break
0800-1700 Upper Lobby	Registration
0900-1800	Expo
General Session Rotterdam	
0900-0905	Welcome to SFPE Europe 2018
0905-0910	<i>Nicole Boston, CEO, SFPE</i>
0910-0920	<i>JC Harrington, SFPE President</i>
0920-0950	<i>Armelle Muller, SFPE Europe President & Kees Both, Benelux Chapter Vice President</i>
0950-1020	Challenges for Performance-Based Design and Regulations Related to Health Care Facilities, Industrial Sites, Transportation and Retrofitting of Existing Buildings
1020-1050 Upper Lobby	<i>Patrick van Hees, Lund University</i>
0950-1020	Risk Based Approach to Transportation, Health Care Facilities, Industrial Sites, and Retrofitting of Existing Buildings
1020-1050 Upper Lobby	<i>David Charters, Risktec Solutions</i>
1050-1110	Morning Break
Session A: Healthcare Rotterdam	
Session B: Redevelopment and Retrofit Coolsignal	
Moderator: Armelle Muller	
Moderator: Paulo Ramos	
1050 -1110	<u>International Review of Healthcare Life Safety Concepts</u>
	<i>Michael Crowley, JENSEN HUGHES</i>
	<u>The Conversion of a Department Store into a Modern Office</u>
	<i>Karl Wallasch & Foivos Giorgallidis, Hoare Lea</i>

1110-1130	A Case Study Comparing the British Healthcare Guidance with the Spanish Fire Safety Regulations <i>Felipe Herrera & Stephen Ball, Trenton Fire Ltd</i>	Putting More Ram into Your Metro/Tram Plan <i>Scot Deal, Excelsior Fire & Rick Engineering</i>
1130-1150	Evaluation of Measures to Limit Smoke Spread in Hospitals <i>Daan Jansen & Tom van Leeuwen, Royal Haskoning DHV</i>	Redevelopment of an Office Building into Hostel Usage: an Example of PBD in Portugal <i>Paulo Ramos, ETU</i>
1150-1210	A Semi-Quantitative Fire Risk Tool for Health Care Occupancies <i>William Koffel, Koffel Associates</i>	Refurbishing a High-Rise Building from 1958: Fire Safety Design Strategies and Challenges <i>Erik Almgren, Bengt Dahlgren Brand & Risk AB</i>
1210-1220	Q&A	Q&A
1220-1325 Upper Lobby	Reception Style Lunch	
Session A: Transport and Logistics		
Rotterdam		
Moderator: Armelle Muller		
Session B: Industrial Hazards		
Coolsignel		
Moderator: Jimmy Jönsson		
1330-1350	Fire Safety of Parking Garages in View of Current Trends <i>Peter van de Leur, DGMR Consulting Engineers</i>	Keep Industrial Fire Protection Provisions Fit for Purpose Using Performance-Based Inspection, Testing, and Maintenance Frequencies <i>Jeanne van Buren, Marsh Risk Consulting</i>
1350-1410	Shear Stress of Columns in a Car Park Subjected to a Localized Fire <i>Olivier Burnier, FSE Fire Safety & Engineering SA</i>	Experimental Evaluation on Hydrogen Explosion Hazards in Industrial Battery Rooms <i>Dorota Brzezinska, Lodz University of Technology</i>
1410 -1430	Fire Safety Design of a High-Rise Building near Transport Route of Dangerous Goods <i>Johan Koudijs & J. (Johan) Hoogeweg, DGMR Consulting Engineers</i>	Challenges to Develop Design Fire Scenarios from Fire Risk Analysis on Offshore Facilities <i>Laurent Paris & Nicolas Bal, TechnipFMC</i>
1430-1450	Implementation of a Priority Based Emergency Management System in the "Antigoon" Rail Freight Tunnel in the Port of Antwerp <i>Lieven Schoonbaert & Stijin Eeckhaut, Ifrabel/Tractebel</i>	Wet-Pipe and Dry-Pipe Sprinkler Protection for Rack Storage of Distilled Spirits in Oak Barrels under 12.2-m Ceilings <i>Jaap de Vries, FM Global</i>
1450-1500	Q&A	Q&A
1500-1530 Upper Lobby	Afternoon Break	
Session A: Research		
Rotterdam		
Moderator: Kees Both		
Session B: Healthcare		
Coolsignel		
Moderator: Jimmy Jönsson		
1530-1550	Identification of Back Draught Conditions <i>Chia Lung Wu & Ricky Carvel, BRE Center, University of Edinburgh</i>	Specific Egress Times for Different Groups of (Vulnerable) Hospital Patients <i>Bjorn Peters & Paul Hoondert, DGMR Consulting Engineers</i>
1550-1610	Nordic Standard for Review and Control of Fire Safety Engineering and Innovative Solutions <i>Johan Noren, Fredrik Nystedt, & Michael Stromgren, Briab</i>	Surgical Fires: Prevention, Suppression, and Response <i>Charles Cowles, University of Texas MD Anderson Cancer Center</i>
1610-1630	Fire and Smoke Behavior: on the Border between inside and Outside <i>E.W. Janse, BVEJ</i>	Healthcare Facility Designers and the Holy Faith in Building Rules <i>Hans Sevenstern, Marsh Risk Consulting B.V.</i>

1630-1650	Overview of Recent Research for the Fire Service: Practice and Science Connected <i>Ricardo Weewer & Lieuwe de Witte, IFV Fire Service Academy</i>	Is a Code Compliant Design Sufficient to Ensure Adequate Safety Levels When Evacuating a Hospital? A Spanish Research Study <i>Olaf Perez Salgueiro & Jimmy Jönsson, JVVA Fire & Risk</i>
1650-1700	Q&A	Q&A
1800-2000 Upper Lobby	Women in Fire Safety Reception (<i>Open to All Attendees</i>) Sponsored by  	

Tuesday, 6 February

0800-1700 Upper Lobby	Registration & Expo (expo breakdown after lunch)
0800-0830 Upper Lobby	Morning Coffee Break

General Session
Rotterdam

0830-0840	Welcome and SFPE Overview <i>J.C. Harrington, SFPE 2018 President</i>
0840-0900	Fire Information Exchange Platform <i>Georgios Katsarakis, European Commission</i>
0900-0930	Emerging Issues and Associated Research, Innovation and Technology Needs <i>Brian Meacham, Meacham Associates, SFPE President-Elect</i>
0930-1000	Core Competencies & Credentialing <i>Jimmy Jönsson, JVVA Fire & Risk</i>
1000-1030 Upper Lobby	Morning Break

Session A: Industrial Hazards Rotterdam	Session B: Research Coolsignel
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Moderator: Kees Both	Moderator: Gabriele Vigne
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1030-1050	Case Study of a Specific Fire Engineering Design for Large Enclosed Assembly Spaces <i>Pedro Armijo, JENSEN HUGHES and Tim O'Brien, FireNZW</i>	Experimental Assessment on the Capabilities of Fixed Compressed Air Foam Systems <i>Michael Isirima, Ulster University</i>
1050-1110	Design of Oxygen Reduction Systems in Active Fire Protection Strategy <i>Piergiacomo Cancelliere, Ministry of Interior Italian National Fire and Rescue Service & Diego Gasser, Isolcell</i>	Computational Simulation of Timber Charring in an Approach Across Scale <i>Franz Richter & Guillermo Rein, Imperial College UK</i>
1110-1130	Fire Risk Assessment as the Key Element of a Bow-Tie Based Fire Safety Management System to Design Fire Safety Strategy for Railway Stations <i>Luca Fiorentini, TECSA</i>	Numerical Modeling of ETICS Façade Fire Testing <i>Martyn McLaggan, DBI</i>
1130-1150	A Risk-Based Assessment of Tunnel Emergency Ventilation System Design <i>John Devlin, JENSEN HUGHES</i>	FPE Research and Confidential Projects: How Industrial Secrets Hurt Progress <i>Simon Goodhead, JENSEN HUGHES</i>
1150-1210	Fire Safety on Worksite during Reconstruction of Office Buildings <i>Par Hansson, FSD Gothenburg</i>	Research Roadmap <i>Chris Jelenewicz, SFPE</i>

1210-1220	Q&A	Q&A
1220-1325 Upper Lobby	Reception Style Lunch Sponsored by  JENSEN HUGHES <small>Advancing the Science of Safety</small>	
Session A: Industrial Hazards Rotterdam		Session B: Research Coolsignal
Moderator: John van Lierop		Moderator: Gabriele Vigne
1330-1350	<u>Development of In-Rack Sprinkler Protection Guidance for Mini-Load Automatic Storage and Retrieval Systems</u> <i>Benjamin Ditch, FM Global</i>	<u>Assessment of the Predictive Capabilities of Computational Modelling Tools to Forecast Hydrocarbon Pool Fire Effects</u> <i>Borja Rengel, CERTEC- UPC</i>
1350-1410	Engineering Ethics - Adding Clarity in a Profession of Risk and Uncertainty <i>Anthony Militello, US Navy</i>	<u>Propagation of Fire underneath PV Arrays on Flat Roof Constructions</u> <i>Jens Steemann Kristensen & Grunde Jomaas, University of Edinburgh</i>
1410-1430	<u>Fire Protection Sea Lock Gates - IJmuiden</u> <i>Ruud van Herpen, Nieman Consulting Engineers</i>	<u>Information Technologies in Educating Fire Safety Specialists</u> <i>Serhii Tsvyrkun, Cherkasy Institute of Fire Safety</i>
1430-1450	<u>Quantified Fire Risk Assessment for the Fire Safety Design of Bridges</u> <i>Graeme Flint, Ove Arup & Partners, UK</i>	<u>Considering Pedestrians with Special Needs in Evacuation – Predicting the Unpredictable?</u> <i>Paul Geoerg, Bundesanstalt fuer Materialforschung Und-pruefung BAM & Stefan Holl, Juelich Research Center</i>
1450-1510	Q&A	Q&A
1510-1530 Upper Lobby	Afternoon Break	
Session A: Transport & Logistics Rotterdam		Session B: Retrofit & Redevelopment Coolsignal
Moderator: John van Lierop		Moderator: Peter van de Leur
1530-1550	<u>Quantification of the Consequences of Terrorist Attacks Using Fire Bomb on People and Railway Station Structures RE(H)STRAIN</u> <i>Anne Thiry-Muller, LCCP & Virginie Drean, Efectis France</i>	<u>Bulk Challenges – Creating a New Museum Storage Facility within an Existing Warehouse</u> <i>Andrew Campbell, Holmes Fire LP</i>
1550-1610	<u>Performance-Based Structural Fire Expertise of a Semi-Buried Railway Station</u> <i>Eric Tonicello, ISI – Ingénierie et Sécurité Incendie – Lausanne</i>	<u>Consideration in the Selection of Exterior Wall Systems for Retrofit Application</u> <i>Daniel Lemieux, Carl Baldassarra, & Nicholas Ozog, Wiss, Janney, Elstner Associates, Inc</i>
1610-1630	<u>Jet-Fan Systems in Car Parks – Design Methods Overview and Assessment of the Performance</u> <i>Wojciech Wegrzynski & Grzegorz Krajewski, Building Research Institute</i>	<u>Issues to Consider When Redeveloping a Building</u> <i>Yen Fang Tu, University of Canterbury</i>
1630-1650	An Approach to Fire Risk Assessments for Vehicles in Challenging Environments <i>Bernie Till, Bernie Till & Associates</i>	<u>Using Risk Analysis to Improve Patient Safety</u> <i>Monique Berrevoets-Steenbakker, & and Marije Vos, Antea Group</i>
1650-1710	Effect of Heating Rate on Burning Behaviour of Organic Peroxide in Steel Drums and IBCs <i>Kirti Bhushan Mishra, Technological Risk Research and Analysis Group (TRAG)</i>	<u>Performance-Based Design of the Lausanne University Library</u> <i>Slyvain Desanghere, Lombardi SA</i>
1710-1720	Q&A	Q&A

1730	Conference Adjourns
Wednesday, 7 February – Professional Development Seminars	
0630-0800 Roots Restaurant	Breakfast <i>(for seminar participants only)</i>
0700-0800 Upper Lobby	Morning Coffee Break
0730-1700 Upper Lobby	Registration and Breaks
0800-1700 Conrad	Fire Dynamic Simulation (FDS) (2 days) <i>Instructor: Gabriele Vigne, Director, JVVA Fire & Risk</i> Seminar Info
0800-1700 Coolsignal	Performance-Based Design and Regulation in Europe (1 day) <i>Instructor: Michael Strömngren, Research Specialist, Briab</i> Seminar Info
1200-1300 Roots Restaurant	Lunch <i>(for seminar participants only)</i>
Thursday, 8 February – Professional Development Seminars	
0630-0800 Roots Restaurant	Breakfast <i>(for seminar participants only)</i>
0730-1700 Upper Lobby	Registration and Breaks
0700-0800 Upper Lobby	Morning Coffee Break
0800-1700 Conrad	Fire Dynamic Simulation (FDS) <i>Instructor: Gabriele Vigne, Director, JVVA Fire & Risk</i> Seminar Info
1200-1300 Roots Restaurant	Lunch <i>(for seminar participants only)</i>

*Last updated 2/5/18