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FSF

FIRE SAFETY OF FACADES

2nd International conference | 11/13 May 2016, Lund - Sweden

Preliminary programme

Wednesday 11 May 2016

Afternoon: Workshop sessions

- Workshop session 1: Fire safety of facades on multi-storey buildings
- Workshop session 2: Test methods: can we rely on the test methods available?

More details of the content of each workshop will be provided in the coming weeks.

Evening: Breaking glass event

Thursday 12 May 2016

08.00	Registration
09.00	Welcome and introduction

Regulation and standardization work, case study	
09.30	**A Case Study of Fires in Structural Elements** *N. Johansson, P. van Hees, Lund University, Sweden*
09.50	**Post Incident Analysis Report, Lacrosse Docklands** *G. Badrock and R. Bryant, Metropolitan Fire and Emergency Services Board, Australia*
10.10	**Development of full-scale façade tests in ISO TC92** *P. van Hees, Lund University, Sweden*
10.30	Coffee break
Poster presentation	
12.20	Lunch and poster session

Test and assessment method	
14.00	**Experimental investigation of the fire behavior of facades with EPS exposed to different fire loads** *C. Northe, O. Riese, J. Zehfuß, Technische Universität Braunschwei, Germany*
14.20	**Fire Propagation over Combustible Exterior Facades exposed to intensified flame in Japan** *Y. Nishio, University of Tokyo, Japan, H. Yoshioka, National Institute for Land and Infrastructure Management, Japan, T. Noguchi, University of Tokyo, Japan, M. Kanematsu, Tokyo University of Science, Japan, T. Ando, M. Tamura, University of Tokyo, Japan and Y. Hase, Mitsubishi Plastics, Inc., Japan*
14.40	**Fire Behaviour of the "Ventilated Façade" System: A Large-Scale Fire Test** *D. Kolaitis, E. Asimakopoulou and M. Founti, National Technical University Athens, Greece*
15.00	**Investigations of the performance of facades made of ETICS with polystyrene under external fire exposure and fire safety measures for their improvement** *J. Riemesch-Speer, Deutsches Institut für Bautechnik, Germany , O. Riese, Technische Universität Braunschweig, Germany, I. Kotthoff, Ingenieurbüro für Brandschutz bei Fassaden, Germany and S. Hauswaldt, MFPA Leipzig GmbH, Germany*
15.20	**A new fire performance test for cavity wall insulation** *K. Jamison, FM Global Research, USA and D. Boardman, FM Approvals, USA*
15.40	Coffee break
Numerical modeling	
16.20	**An Experimental and Numerical Study to Characterize the Transient Effects of Externally Venting Flames in Under-Ventilated Compartment Fires** *E. Asimakopoulou, D. Kolaitis and M. A. Founti, National Technical University of Athens*

16.40	**Experimental Study and Advanced CFD Simulation of Fire Safety Behaviour of Building External Thermal Insulation System** *Z. Yan, Simtec Soft Group AB, Sweden, C. Zhao, National Fire Protection Quality Supervision and Inspection Center of Building Materials, China, Y. Liu, Fire Safety Design AB, Sweden, X. Deng, X. Ceng, S. Liu, B. Lan, G. Lu, National Fire Protection Quality Supervision and Inspection Center of Building Materials, China, S. Jeansson, R. Nilsson, Fire Safety Design AB, Sweden and P. van Hees, Lund University, Sweden*
17.00	**Numerical simulations of the ISO 13785-2 façade fire tests** *Gleb Bytskov, Simo Hostikka, Aalto University, Finland*
17.20	**Repeatability of façade fire tests – measurements and modeling** *J. Anderson, L. Boström, R. Jansson, SP Technical Research Institute of Sweden, Sweden and B. Milovanović, University of Zagreb, Croatia*
17.40	**Large-Scale Performance Testing and CFD Simulation of Fire Propagation in Ventilated Facades and the influence of Insulation materials** *M. Pilar Giraldo, Catalan Institute of Wood, Spain, X. Sindt, A. Lacasta, L. Haurie, Universitat Politècnica de Catalunya BarcelonaTech, Spain, E. Pastor, E. Planas, O. Rios, Centre for Technological Risk Studies, Spain, E. Cuerva, Universitat Politècnica de Catalunya BarcelonaTech, Spain*
20.00	Gala dinner

Friday 13 May 2016

Fire Safety Engineering	
08.40	**Full-scale Experiments to Investigate the use of a Water Curtain over Openings to Prevent Fire Spread to Adjacent Properties** *M. Turco, G. Hadjisophocleous, Carleton University, Canada, and P. Lhotsky, Carleton University, Canada*
09.00	**Fire safety engineering applied to high-rise building facades** *P. Setti, Politecnico di Milano/FSC Engineering srl, Italy, L. Mazziotti, Italian National Fire Services, Italy, G. Amaro, Gae Engineering srl, Italy, G. Paduano, P. Cancelliere, Italian National Fire Services, Italy, S. Sassi and M.Madeddu, Italian National Fire Services, Italy*
09.20	**Development of Fire Risk Assessment Method of Building External Thermal Insulation System based on Advanced CFD Simulation** *Y. Liu, Fire Safety Design AB, Sweden, Z. Yan, Simtec Soft Group AB, Sweden, S. Jeansson, Fire Safety Design AB, Sweden, X. Han, Shanghai Institute of Disaster Prevention and Relief, Tongji University, China, A. Johansson, National Board of Housing, Building and Planning, Boverket, Sweden, R. Nilsson, Fire Safety Design AB, Sweden and P. van Hees, Lund University, Sweden*
09.40	**Numerical investigation on compartment fire with external flames** *M. Duny, D. Dhima, Scientific and Technical Centre for Building, France, J-P Garo, H.Y. Wang, Institut P', France*
10.00	**A System Approach to Verify Performance of the Building Fire Protective Envelope** *T. Jarnskjold & G. Jensen, COWI AS, Norway*
10.20	Coffee break
Products, material and facade systems	
10.50	**Fire risk related to the use of PV systems in building facades** *L. Mazziotti, Italian National Fire Services, Italy, P. Cancelliere, G. Paduano, Italian National Fire Services, Italy, S. Sassi, Italian National Fire Services, Italy and P. Setti, Politecnico di Milano/FSC Engineering srl, Italy*
11.10	**Means of regulating combustible materials in external walls** *E. Mikkola, KK-Fireconsult Ltd, Finland*
11.30	**Reaction-to-fire Performance of Fire-retardant Treated Wooden Facades in Japan with Respect to Aging Degradation Caused by Weathering** *H. Yoshioka, National Institute for Land and Infrastructure Management, Japan, M. Kanematsu, Tokyo University of Science, Japan, T. Noguchi, The University of Tokyo, Japan, S. Hagihara, Japan Testing Centre for Construction Materials, Japan, A. Yamaguchi, Koshii & Co, Ltd, Japan, and T. Sugita, Misawa Homes Co., Ltd, Japan*
11.50	Large glazing in curtain walls - study on impact of fixing methods on fire resistance ***J. Kinowski, B. Sędłak and P. Sulik, Building Research Institute, Poland***
12.10	**Durability of the reaction to fire performance for fire retardant treated (FRT) wood products in exterior applications – a fifteen years report** *B. A-L Östman and L. D Tsantaridis, SP Wood Building Technology, Sweden*
12.30	Summary and closure
12.50	Lunch **Technical visit** - The detail of the technical visit will be provided later

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