

Time Chairman/Presenter Session/Presentation

Friday 19 April, 2013

15:00 - 17:00	Kwasniewski Leslaw	Session 1 - Structural fire design modelling
B280	Kwasniewski Leslaw	Principles of verification and validation
	Zografopoulou Kalliopi	Numerical simulation of natural fire in an industrial building considering earthquake damage of non-structural members
	Polus Lukasz	CFD modelling of the complicated braced barrel vault made from rectangular hollow section in natural fire
	Pelczynski Jan Maria	Benchmark example problems for beams at elevated temperatures
	Anderson Kate	Benchmarking for the inclusion of shear studs in finite element models
	Ira Jiří	The use of optimization techniques in fire development modeling
	Simon Peter	A qualitatively model of influence of boundaries on the energy density for firefighting and ventilation systems
	Smardz Piotr	Comparison of a-priori and a-posteriori CFD modelling in a residential unit
	Molkens Tom	FDS versus EN models, Comparison between Heskestad model out of EN and CFD results
	Szilágyi Csaba	The comparison of the results of a full scale evacuation test to the calculation method

17:30 - 18:30	Outinen Jyri	Session 2 - Structural fire design application
B280	De Sanctis Gianluca	On the use of fire brigade statistics for structural fire safety engineering
	Guo Qianru	Stochastic finite element methods for the reliability-based fire-resistant design of structures
	Kodur Venkatesh	An approach for evaluating vulnerability of bridge against fire hazard
	Paliga Karen	Performance-based fire safety design of different types of constructions in Germany
	Faggiano Beatrice	Robustness of the Vesuvian roofs under the combined overload and high temperatures due to air falls

Saturday 20 April, 2013

9:00 - 11:00	Vila Real Paulo	Session 3a - Structural response - Steel structures
B280	Outinen Jyri	Fire protection of tall steel columns using water sprinklers
	Zhaohui Huang	A simplified model for modelling flexible end-plate connections at elevated temperatures
	Ozyurt Emre	Resistance of T- and K-joints to tubular members at elevated temperatures
	Rigueiro Constanca	Post-impact fire resistance of T-stub joint component
	Stavroulakis G. E.	Finite element analysis of fire resistant reinforcement on end-plate steel connections
	Schaumann Peter	Simulation of mechanical behaviour of steel and composite connections protected by intumescent coating
	Dong Gang	Development of a general component-based connection element for structural fire engineering analysis
	Johnson Lucy	Behaviour of axially loaded structural bolting assemblies in fire
	Malendowski Michal	Structural response under natural fire of braced barrel shape shell construction

9:00 - 11:00	Kodur Venkatesh	Session 3b - Structural response - Concrete structures
B286	Gillie Martin Ružic Dušan Hora Michal Nigro Emidio Youssef Maged Weisenpacher Peter	Bending analysis of beams affected by fires Analysis of curved reinforced concrete beam in fire conditions Temperature analysis of lightweight aggregate concrete slab members at elevated temperatures Flexural check at high temperatures of RC bridge decks strengthened with EBR-FRP Simplified method for predicting deformations of RC frames during fire exposure The impact of car park fire on concrete structure: parallel computation

12:00 - 14:00	Franssen Jean-Marc	Session 4a - Structural response - Material behaviour
B280	Mirza Olivia Bamonte Patrick Kraus Peter Häsler Dustin Huang Yuner Bjegovic Dubravka Robertson Lucie Peroš Bernardin Roy Danie Khaliq Wasim	Behaviour of the headed stud shear connectors under elevated temperatures utilising carbon nanotubes On the thermo-mechanical characterisation of cement mortars exposed to high temperature Investigations of steel elements with intumescent coating connected to space-enclosing elements Numerical and experimental analysis of reactive fire protection systems applied to solid steel rods in tension Lean duplex stainless steel material tests at elevated temperatures using steady state method Mechanical properties of self-compacting concrete with different mineral admixtures Microstructural and mechanical characterisation of post-tensioning tendons Modeling of the influence of creep strains on the fire response of steel elements Strengthening of heat damaged reinforced concrete cylinders Comparative fire performance of high strength concrete columns with different types of fiber reinforcement

12:00 - 14:00	Gillie Martin	Session 4b - Structural response - Composite structures
B286	Jiang Jian Dai Xu Tan Kang Hai Iqbal Naveed Kolšek Jerneja Selamet Serdar Sunhee Kim Pantousa Daphne Yong Du	Thermomechanical analysis of composite structures using OpenSees An alternative simplified model of tensile membrane action of slabs in fire Effect of interior beams on membrane behaviour of composite floor systems in fire Numerical study of steel beam in a sub-frame assembly, validation of hand calculation Fire resistance of steel-concrete side-plated beams Fire performance of an unprotected composite beam with semi-rigid end restraints Fire resistance performance of welded built-up square CFT columns with reduced intumescent paint Fire resistance of steel frames under different fire-after-earthquake scenarios based on scaled design accelerograms Steel structural fire-resistance design for protecting the world cultural heritage

15:00 - 17:00	Schaumann Peter	Session 5 - Structural response - Timber and Steel structures
B280	Pecenko Robert Vargovský Kamil Hartmann Paul Couto Carlos Maslak Mauriusz Lopes Nuno Laim Louis Johnston R. P. D. Dondera Alexandru	Numerical analysis of timber beam exposed to natural fire Estimation of fire resistance by means of calculation for atypical exterior wall of a woodstructure Cone calorimeter tests on fire retardant products for timber structures Fire design of steel beams with welded class 4 cross-section Interactive shear resistance of corrugated web in steel beam exposed to fire Fire resistance of cold-formed C steel columns Baseline study on the behaviour of cold-formed steel columns subjected to fire The structural behaviour in fire of a cold-formed steel portal frame having semi-rigid joints Fire induced collapse of steel structures
17:30 - 18:30	Tan Kang Hai	Session 6 - Other questions
B280	Hajpál Mónika Tsatsoulas James Laim Louis Tabaddor Mahmood Heinisuo Markku	The fire performance of Globigerina and Coralline limestone - characterisation for the fire performance of limestone Reducing the risk on a food industry 'serious' fire. A fire investigation case study Experimental and numerical study of balcony effect in external fire spread into upper floors Predicting the behavior of fire doors subjected to fire endurance test Car fires with sprinklers: study of Eurocode for sprinklers