

## Conference Final Programme, Thursday, 19 February

8:00 CTU

Registration

8:30	Atelier D	Putting up the posters		Zdeněk SOKOL
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9:00	Atelier D	Th0 - Opening		František WALD
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9:30	B280		Th1 - Case studies		moderator Ian BURGESS
	Th1-1	PADA Dan	Simulation and Study of Natural Fire in a Wide-Framed Multipurpose Hall With Steel Roof Truss		
	Th1-2	VILA REAL Paulo	Evaluation of the Fire Resistance of a Sport Hall using Structural Fire Engineering		
	Th1-3	DING Jun	Application of Structural Fire Engineering to the Steelwork Design of Cannon Place, London		
	Th1-4	BAMONTE STERN Petrick	Fire Scenario and Structural Behaviour of Underground Parking Lots Exposed to Fire		
	Th1-5	GOTTFRIED Jamie	An innovative approach to design fires for structural analysis of non-conventional buildings, a case study		
	Th1-6	FEENEY Martin	Application of Structural Fire Design to Steel Buildings, New Zealand Experience 1986 to 2008		

10:30	B280		Th2 - Fire modelling		moderator Jean-Marc FRANSEN
	Th2-1	HUANG Xin	Numerical Simulation on Vertical Fire Spread, Effects of Pier and Eave in Preventing Vertical Fire Spread		
	Th2-2	GKOUMAS Konstatntinos	Definition and Selection of Design Fire Scenarios		
	Th2-3	CROSTI Chiara	Structural Analysis of Steel Structures under Fire Loading		
	Th2-4	GILLIE Martin	Generalised thermal and structural fire analysis with GENISTELA and GENISTRUC		
	Th2-5	DUDÁČEK Aleš	Decrease in Fire Load on Structures by Timely Fire Detection		
	Th2-6	SANDSTRÖM Joakim	Adiabatic Surface Temperature, a Sufficient Input Data for a Thermal Model		

11:30	B280		Th3 - Timber Structures		moderator Petr KUKLÍK
	Th3-1	BOUCHAÏR Hamid	Tests and Modelling of Wood in Shear at Elevated Temperatures		
	Th3-2	CACHIM Paulo	Timber Connections Under Fire Loading, a Component Model for Numerical Modelling		
	Th3-3	KUKLÍK Petr	Fire Resistance of Trusses with Punched Metal Plate Fasteners		
	Th3-4	FRIQUIN Kathinka	Evaluation of Natural and Parametric Temperature-Time Curves of Cross-Laminated Wood Slabs		
	Th3-5	QIU Peifang	Experimental Study on Fire Protection of Timber assemblies		

12:30	B280	Meeting of the European network COST C26 WG1 Fire design – New COST Action in fire engineering		František WALD
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13:00 Atelier D

Lunch

14:00	B280		Th4 - Concrete Structures - after Action of Fire		moderator Jaroslav PROCHÁZKA
	Th4-1	KLINGSCH Eike Wolfram	Experimental Analysis of Concrete Strength at High Temperatures and After Cooling		
	Th4-2	CVETKOVSKA Meri	Fire Resistance Curves for RC Columns		
	Th4-3	BISBY Luke	Heating-Induced Prestress Variation in Unbonded Posttensioned Construction		
	Th4-4	FELICETTI Roberto	Combined While-Drilling Techniques for the Assessment of the Fire Damaged Concrete Cover		
	Th4-5	ANNEREL Emmanuel	Basic Approach for the Diagnosis of Concrete after Fire Exposure		
	Th4-6	MATEČKOVÁ Pavlína	Different Types of Pre-Stressed Hollow Core Panels, and their Fire Resistance		

15:00	B280		Th5 - Concrete Structures - Spalling		moderator Venkatesh KODUR
	Th5-1	DEENY Susan	Spalling of Concrete, Implications for Structural Performance in Fire		
	Th5-2	ZHANG Honglin	A Numerical Model for Prediction of Spalling of Concrete Exposed to Elevated Temperatures		
	Th5-3	GAMBAROVA Pietro	Self-Compacting Concrete at High Temperature a Critical Survey and Recent Test Results		
	Th5-4	HUISMANN Sven	Experimental and Numerical Study of High Performance Concrete Columns		
	Th5-5	ESPINOS Ana	Fire Resistance of Axially Loaded Slender Concrete Filled Steel Tubular Columns		
	Th5-6	JAYASREE Ganesan	Behaviour of R.C. Beams Under Elevated Temperature		

16:00 Atelier D

Coffee

17:00	B280		Th6 - Concrete Structures - Elements		moderator Pietro GAMBAROVA
	Th6-1	SCHNEIDER Martin	Numerical Evaluation of Load Induced Thermal Strain in Tunnel Cross Section		
	Th6-2	ZEIML Matthias	Structural Safety Assessment of Tunnels Subjected to Fire Loading		
	Th6-3	KAN Qiang	Experimental Study on Baggage Fires of Subway Passenger		
	Th6-4	PROCHÁZKA Jaroslav	Computer Program for Fire Check of Concrete Members		
	Th6-5	RODRIGUES Joao Paulo	Fire Resistance Tests on Concrete Columns with Restrained Thermal Elongation		
	Th6-6	GONCALVES Miguel	Numerical Analysis of Concrete Columns in Fire, Advanced Versus Simplified Methods		
	Th6-7	RIMLINGER Serge	PROMETHEE, the Innovative Fire Resistance Testing Centre for Structures		

18:00	B280		Th7 - Other Questions		moderator Martin GILLIE
	Th7-1	LAW Angus	Incorporation of Load Induced Thermal Strain in Finite Element Models		
	Th7-2	MAŚLAK Mariusz	Fire Resistance Assessment for Differentiated Safety Requirements		
	Th7-3	ROVNANÍK Pavel	Thermal Behaviour of Alkali Activated Slag Composites		
	Th7-4	MOSTAFAEI Hossein	Performance of Structural Systems in Fire		
	Th7-5	GLUCH Grzegorz	Influence of Fire on Steel Bridge		

20:00 Dominican monastery, Jiřská street, Prague 1

Conference dinner, Announcement of the awardwinning young researchers and posters

Ian Burgess, Aleš Dudáček

**Conference Final Programme, Friday, 20 February**

8:00 CTU

Registration

9:00	B280			Fr1 - Steel Structures - Structural systems	moderator
	Fr1-1	OUTINEN	Jyri	Fire Protection of Steel Structures using Sprinkler Systems	Peter SCHAUMANN
	Fr1-2	DE LA QUINTANA	Jesús	FSE Analysis of a 19th Century Cast-Iron Bridge Structure	
	Fr1-3	KIRSCH	Thomas	Unprotected Steel in Multi-Storey Car Parks	
	Fr1-4	BLOCK	Florian	Structural Fire Engineering Assessments of the FRACOF and Mokrsko Fire Tests	
	Fr1-5	HEINISUO	Markku	Integrated Fire Engineering of Steel Skeleton using Well Established Fire Sources	
	Fr1-6	BURGESS	Ian	A New Design Method for Industrial Portal Frames in Fire	

10:00	B280			Fr2 - Steel Structures - Columns	moderator
	Fr2-1	TAN	Kang Hai	Unprotected Bi-Axially Loaded Steel Columns under Fire Conditions	Paulo VILA REAL
	Fr2-2	CAMOTIM	Dinar	On the Distortional, Post-Buckling and Strength of Cold-Formed Steel Lipped Channel Columns	
	Fr2-3	LI	Guo-Qiang	Design Method for Restrained Steel Columns in Fire	
	Fr2-4	KORZEN	Manfred	Thermal Restraint Effects on the Fire Resistance of Steel and Composite Steel and Concrete Columns	
	Fr2-5	SONG	Kyung-Chul	Fire Resistance of Bar-Reinforced Concrete-Filled Steel Tube Columns	
	Fr2-6	CORREIA	António	Experimental Research on the Fire Behaviour of Steel Columns Embedded on Walls	
	Fr2-7	TSALIKIS	Christos	Steel Beam-Column Under Thermal Gradient	
	Fr2-8	KODUR	Venkatesh	Performance Based Fire Design of Concrete-Filled Steel Columns	
	Fr2-9	HOZJAN	Tomaž	Buckling Behaviour of Steel Columns in Fire Conditions and Comparison with Eurocode 3	

11:30	B280			Fr3 - Composite Structures	moderator
	Fr3-1	MENSINGER	Martin	Concrete and Composite Slabs in Fire, Discussion of the Load Bearing Characteristics	Yong WANG
	Fr3-2	JIANG	Shou-Chao	Experimental study on full scale composite floor slabs under fire condition	
	Fr3-3	ROSEFID	Mohsen	Parametric numerical analysis of steel and concrete composite floors exposed to ISO fire	
	Fr3-4	CHOI	Sengkwan	Performance of shear studs in fire	
	Fr3-5	PINTEA	Dan	Fire Analysis of Structures in Seismic Areas	

12:30	B280	<i>Meeting of the European network COST C26 WG1 Fire design – Preparation for COST C26 final Conference</i>			František WALD
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13:00 *Atelier D*

Lunch

14:00	B280			Fr4 - Steel Structures - Connections	Moderator
	Fr4-1	ANDERSON	Kate	Investigation into Methods for Predicting Connection Temperatures	Kang Hai TAN
	Fr4-2	CHLOUBA	Jiří	Connection Temperatures during the Test in Mokrsko	
	Fr4-3	WANG	Yong	An Experimental Study of Structural Behaviour of Joints in Restrained Steel Frames in Fires	
	Fr4-4	LANGE	Jörg	Behaviour of High Strength Grade 10.9 Bolts Under Fire Conditions	
	Fr4-5	LU	Wei	Behaviour of Screwed Shear Sheeting Connection in Fire	
	Fr4-6	KALLEROVÁ	Petra	Connections of Trapezoidal Sheets at Elevated Temperature	
	Fr4-7	DU	Yong	Effects of Flame Radiation on Temperature Elevation of Steel Members	

15:30 *Atelier D*

Coffee

16:30	B280			Fr5 - Material Modelling	moderator
	Fr5-1	CHOI	Joung Yoon	Thermal Characteristics Measurements of an Inorganic Intumescent Coating System	Martin FEENEY
	Fr5-2	MESQUITA	Luis	Decomposition of Intumescent Coatings	
	Fr5-3	DOMAŃSKI	Tomasz	Variances of Steel Strength Characteristics in Fire Temperatures	
	Fr5-4	KRÓL	Pawel Artur	Stress-Strain Relationship of Reinforcing Steel, Subjected to Tension and High Temperature	
	Fr5-5	LOPES	Nuno	Stainless Steel Beam-Columns Interaction Curves in case of Fire	
	Fr5-6	YOUNG	Ben	Design of Cold-Formed Stainless Steel Tubular Columns at Elevated Temperatures	

17:30	B280			Fr6 - Material Properties	moderator
	Fr6-1	ALONSO	María Cruz	Material Properties Loss of Fibred-SCC due to Fire Action	Guo-Qiang LI
	Fr6-2	RAHMANIAN	Ima	Thermal Conductivity of Gypsum at High Temperatures	
	Fr6-3	de KORTE	Arien	Thermal Conductivity of Gypsum Plasterboards	
	Fr6-4	HAJPÁL	Mónika	Fire Damage of Stone Structures	
	Fr6-5	SANTOS	Susana	Compressive Strength of Fibre Reinforced Concretes	

18:30	<i>Atelier D</i>	<i>Taking down the posters</i>			SOKOL Zdeněk
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**Post Conference Tour, Saturday, 21 February 2009**

9:00 - 18:00	Visit of PAVUS a.s. fire testing laboratory and Josef underground educational facility. Bus in front of the CTU.				
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