

ASFE 2011 – Abstracts

	Author	Country	Title
1	AB KADIR Aida Mariyana, Gillie M.	United Kingdom	Modelling of reinforced concrete frames in fire following an earthquake
2	ABU KWABENA Anthony, Block F.	New Zealand	An analytical review of the Mokrsko fire test failure
3	ANDERSON Kate	United Kingdom	The effect of connection rotational behaviour on structural response in fire
4	ANNEREL Emmanuel, Taerwe L.	Belgium	Techniques for the evaluation of concrete structures after fire
5	BARATA Pedro, Santiago A.,	Portugal	High temperature load-bearing capacity tests on composite joints after cyclic loading
6	BARATA Pedro, Rodrigues J.P.	Portugal	Numerical and experimental simulation of the behaviour at high temperatures of composite joints after cyclic loading
7	BEDNÁŘ Jan	Czech Republic	Behaviour of steel and fibre-concrete composite slab in fire
8	BIHINA Gisele, Muzeau J.P., Bouc	France	Numerical modeling of a composite floor made of cellular beams at elevated temperatures
9	BJÖRKMÁN Jouni, Autio V., Ylihär	Finland	Fire load survey of commercial premises in Finland
10	CAYLA Francois, Leborgne H., Joy	France	Application of a virtual fire resistance furnace on a complex geometry: fire resistance test simulation on a metallic door
11	DU Yong, Li Gou-qiang	China	Loading-bearing capacity method for structural fire safety design
12	DUDAČEK Aleš, Kučera P., Bradá	Czech Republic	Fire simulation application by design of tunnel constructions fire safety
13	ERVINE Adam, Gillie M., Panjaj	United Kingdom	Behaviour of earthquake damaged reinforced concrete structures in fire
14	ESPINOS Ana, Gardner L., Romer	Spain	Advanced numerical model for the fire behaviour of concrete filled elliptical hollow section columns
15	FARIDALAM Mohammadali, Shahi	Iran	Numerical modeling of structural fire behaviour of reduced beam sections
16	FARIDALAM Mohammadali, Shahi	Iran	Numerical modeling of structural fire behaviour of bolted stiffened and unstiffened extended end-plate connections
17	GENTILI Filippo, Grossi L., Bonten	Italy	Role of CFD in the quantitative assessment of structural performance in fire scenarios
18	GENTILI Filippo, Giuliani L.	Italy	Simulation of the structural behavior of steel-framed buildings in fire
19	GONZÁLEZ Fernando, Lange J.	Germany	Galvanized Grade 10.9 Bolts under Fire Conditions
20	HAGER Izabela	Poland	Application of non-destructive methods for evaluating the high temperature effect on the mechanical properties of ordinary and high performance concretes
21	HAN Jun, Li Guo-Qiang,	China	Effective thermal conductivity of fire proof materials and the measuring method
22	HANUS Francois, Franssen J.M.	Luxemburg	Distribution of temperature in steel and composite joints under natural fire
23	HAREMZA Cécile, Santiago A., Sil	Portugal	Numerical behaviour of heated composite joints subject to bending moments
24	HEINISUO Markku, Laasonen M.	Finland	Systematization of design fire loads in integrated fire design system
25	HEISTERMANN Tim, Iqbal N., Veli	Sweden	Characterization of the reverse channel component in compression
26	HIRASHIMA Takeo, Ikuta H., Hidai	Japan	Structural behavior of steel frames exposed to fire - an approximation of the critical temperature of steel members and the horizontal displacement at the top c
27	HOPKIN Danny, Lennon T., El-Rin	United Kingdom	Adaptation of TNO DIANA for the simulation of heating and cooling timber structures
28	HOPKIN Danny, Lennon T., El-Rin	United Kingdom	An analytically derived modified conductivity model for softwood exposed to parametric fires
29	HOPKIN Danny, Lennon T., El-Rin	United Kingdom	Impact of assumed fracture energy on the behaviour of a timber beam subject to ISO834 heating
30	HOROVÁ Kamila, Jána T., Wald F.	Czech Republic	Prediction of the temperature distribution in an experimental building
31	HOZJAN Tomaž, Planinc I., Sajje M	Slovenia	Analysis of steel concrete composite beam with interlayer slip in fire conditions
32	JÁNA Tomáš, Wald F.	Czech Republic	Simplified prediction of the temperature distribution in an experimental building
33	JEFFERS Ann E., Shi K., Guo Q.	USA	Stochastic analysis of structures in fire by Monte Carlo simulation
34	JIANG Jian, Zhang J., Usmani A.	United Kingdom	Modelling of steel frame composite structures in fire using OpenSees
35	JIANG Yaqiang, Usmani A., Welch	United Kingdom	Development of heat transfer modelling capability in OpenSees for structures in fire
36	KIRSCH Thomas, Schumann P.	Germany	FEM-simulation of steel connections in fire with large deformations and strains
37	KISIELINSKY Rafal, Kowalski R., A	Poland	Mechanical properties of reinforcing bars heated up under steady stress conditions
38	KLINZMANN Christoph	Germany	The role of active fire protection measures in a national fire safety concept in Germany
39	KODUR Venkatesh, Ahmed A.	USA	A macroscopic finite element computer model for tracing the fire response of FRP-strengthened reinforced concrete beams
40	KODUR Venkatesh, Dwaikat M.	USA	A simplified approach for predicting steel temperatures under design fires
41	KORZEN Manfred,	Germany	Constitutive equations for structural steel subjected to fire-some remarks
42	KOTSOVINOS Panagiotis,	United Kingdom	Fire resistance of trusses with OpenSees
43	KWASNIEWSKI Leslaw, Balcerzak	Poland	Coupled structural-thermal calculations for restrained steel columns in fire
44	LEE James A., Gales J., Gillie M.	United Kingdom	Modelling creep in steel structures exposed to fire
45	LIMIN Lu, Annerel E., Taerwe L.	Belgium	Influence of transient strain on fire resistance of concrete elements
46	LOPES Nuno, Vila Real P.	Portugal	Evaluation of the fire resistance of the steel structure of a waste treatment plant using structural fire safety engineering
47	MARIMON Frederic, Ferrer M.	Spain	A 2D nonlinear-transient fem approach to the intumescence process of paints applied on steel structural members
48	MASŁAK Mariusz	Poland	Failure probability assessment for fire situation with certain type of network diagram
49	MATEČKOVÁ Pavlína, Čajka R.	Czech Republic	Study of slab fire resistance according to Eurocodes using different computational methods
50	MEDA Alberto, Lilliu G.	Italy	Fire analysis of RC precast segmental tunnels
51	MOLKENS Tom	Belgium	Structural fire engineering in building renovation
52	NIGRO Emidio, Cefarelli G., Manfr	Italy	Application of Fire Safety Engineering for open car parks in Italy
53	NIGRO Emidio, Cefarelli G., Ferrar	Italy	Fire Safety Engineering applied to composite steel-concrete buildings: fire scenarios and structural behaviour
54	NIGRO Emidio, Cefarelli G., Manfr	Italy	Adhesion at high temperature of FRP bars straight or bent at the end of concrete slabs
55	OUTINEN Jyri	Finland	Fire protection of steel structures with automatic water extinguishing system
56	PETRINI Francesco, Gkoumas K.	Italy	Computational modeling for performance-based fire engineering (PBFE)
57	QIANG Xuhong, Bijlaard F., Kolste	Netherlands	Numerical study of high strength steel endplate connections at ambient and elevated temperatures
58	REIN Guillermo, Gottfried J. S.	United Kingdom	Overview of traveling fires as design input to the structural engineering of large enclosures
59	SALEM Osama, E. Zalok, Hadjisop	Canada	Fire testing of axially restrained tubular steel beams with moment connections
60	SCHNEIDER Regine, Lange J.	Germany	Constitutive equations of S460 at elevated temperatures with particular consideration of time-dependent effects

61	SMITH Holly K. M., Reid E., Beatty	United Kingdom	The shear strength of concrete at elevated temperature
62	STADLER Martin, Mensinger M., S	Germany	Munich fire tests and recent findings on membrane action of composite slabs in fire
63	STAVROULAKIS Georgios E., Kal	Greece	Thermomechanical nonlinear analysis of bolted connections of steel structures using finite elements
64	ŠTEFAN Radek, Procházka J., Be	Czech Republic	Software tools for fire design of concrete and masonry structures developed at CTU in Prague
65	TAN Kang Hai, Thang Truong Ngu	Singapore	Structural behaviour of axially-restrained RC columns subjected to uni-axial and bi-axial bending under fire conditions
66	TAN Kang Hai, Thang Truong Ngu	Singapore	A rational analytical approach for predicting fire resistance of uniaxially - and biaxially - loaded RC columns
67	TAN Kang Hai, Nguyen Tuan Trun	Singapore	Numerical investigations of composite slab-beam floor systems under fire conditions
68	TRAN Hung, Leborgne H., Zhao B.	France	Experimental and numerical investigation of plasterboard separating elements subjected to fire
69	TRILLEROS Villaverde Juana, Alv	Spain	Heat transfer model for temperature fields in structural carbon steel under iso fire test
70	TSALIKIS Christos, Koltsakis E., B	Greece	Elastic buckling of steel columns under thermal gradient
71	TSATSOULAS Dimitrios	Greece	The impact of flame retarded timber on greek industries
72	VAN COILE Ruben, Annerel E., Ca	Belgium	Probabilistic analysis of concrete elements subjected to bending during fire
73	VELJKOVIC Milan, Cheng X., Byst	Sweden	Prediction of the temperature distribution in an experimental building
74	VILA REAL Paulo, Couto C., Lopes	Portugal	Modelling of multiple localised fires and steel structural members response using the software Elefir-EN
75	WALD František	Czech Republic	Fire Resistance of Cast Iron Columns in Vinohrady Brewery
76	ZAHARIA Raul, Franssen J. M., G	Romania	Simplified method for temperature distribution in SLIM FLOOR beams
77	ZEHFUSS Jochen	Germany	Case studies of a new simplified natural fire model and safety concept for structural fire safety design
78	ZHEN Yuan, Tan Kang Hai	Singapore	Influence of semi-rigid joint moment-rotation characteristics on the behaviour of steel-framed structures under fire conditions
79	DONG Gang, Burgess I. W., Davis	United Kingdom	Component-based element for endplate connections in fire
80	TAIB Mariati, Burgess I. W.	United Kingdom	A component-based model for fin plate connections in fire
81	BLOCK Florian, Walker G.	United Kingdom	Development and application of an analytical localised fire and heat transfer model to steel structures
82	SUN Ruiui, Burgess I.W., Huang Z	United Kingdom	Behaviour of Frame Columns in Localised Fires
83	HUANG Shan-Shan, Davison J.B.	United Kingdom	A structural fire engineering prediction for the Jilemnice fire tests, 2011
84	CORREIA A., Rodrigues J.P.	Portugal	Parametric study on the behavior of steel columns subjected to fire
85	CORREIA A., Rodrigues J.P.	Portugal	Fire resistance of steel columns axial and rotationally restrained
86	CVETKOVSKA Meri, Lazarov L., F	Macedonia	Fire resistance of centrally and eccentrically loaded composite columns
87	CVETKOVSKA Meri, Lazarov L., T	Macedonia	Axial restraint effects on fire resistance of statically indeterminate RC beams and columns
88	LAZAROV Ljupco, Todorov K., Cve	Macedonia	RC frame exposed to fire after earthquake
89	AUDEBERT Maxime, Bouchair A.	France	Modelling of the thermo-mechanical behaviour of single dowel steel-to-timber joints
90	VARGOVSKÝ Kamil	Slovakia	Software applications for estimation of fire resistance of the buildings construction
91	YU Hongxia	China	Experimental investigation of structural steel welds at high temperature
92	PANTOUSA Daphne, Mistakidis E.	Greece	Analysis of steel structural members and sub-systems under fire conditions