Vereinigung zur Förderung des Deutschen Brandschutzes e. V.
Technisch-Wissenschaftlicher Beirat

Preliminary Programme 11th International Symposium on Fire Protection

Tuesday June 8, 2010	**10.00-10.15**	**Opening Ceromony - Words of welcome, Hans Jochen Blätte, President of German Fire Protection Association (vfdb)**	
	10:15-11:00	**Invited Lecture** Topic: **High-Rise-Storage, Sprinkler versus Water Mist - State of the Art** Speaker: **Michael Rost, Martin Spier**, Magdeburg-Stendal University of Applied Sciences, Germany	
		Session 1 Topic: **Fire Safety Engineering** Session Chairman: **Peter Schaumann**, Leibniz Universität Hannover, Germany	**Session 2** Topic: **Hazard assessment** Session Chairman: **Ulrich Krause**, Federal Institute for Materials Research and Testing, Berlin, Germany
	11:00-11:30	***Lecture 1.1*** **Fire simulation models of natural fire impact on overhead glass constructions** **Yvonne Giese**, University of the German Federal Armed Forces, Munich, Germany	***Lecture 2.1*** **Sustainable Fire Prevention (Towards A Sustainable Green Fire Preventive Approach)** **Bassem Gamil Faragalla**, Abu Dhabi Civill Defence, U.A.E
	11:30-12:00	***Lecture 1.2*** **A constitutive model for the use of Finite Element Method in structural fire design. Formulation, benefit and limits shown on a numerical steelmodel based on Eurocode 3** **Sebastian Hauswaldt, Manfred Korzen**, Federal Institute for Materials Research and Testing, Berlin, Germany	***Lecture 2.2*** **Applicability of FMEA as preliminary fire riskanalysis for offshore wind energy plants** **Uli Barth, Birte Grashorn**, University of Wuppertal, Germany
	12:00-12:30	***Lecture 1.3*** **Structure Fire resistance: a joint approach between modelling and full scale testing (substructuring system)** **Serge Rimlinger, F. Robert, C. Collignon**, Centre d'Etudes et de Recherche de l'Industrie du Béton, Epernon, France	***Lecture 2.3*** **Peak Pressure and Retention Optimization in Clean Agent** **Colin Genge**, Retrotec Energy Innovations Ltd., Vancouver, Canada
	12:30-13:30	**Lunch**	

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		Session 3 Topic: **Fire fighting** Session Chairman: **Reinhard Ries**, Fire Department Frankfurt am Main, Germany	**Session 4** Topic: **Toxicity** Session Chairman: **Richard Hull**, University of Central Lancashire, United Kingdom
	13:30-14:00	***Lecture 3.1*** **Image Quality Performance Testing of Fire Service Thermal Imaging Cameras** **Andrew Lock, Francine Amon, Nelson Bryner**, National Institute of Standards and Technology, Gaithersburg, USA	***Lecture 4.1*** **Toxic-Hazard Prediction: Possibilities and Limitations of Toxicity Modelling** **Kathrin Grewolls**, Ingenieurbüro für Brandschutz, Ulm, Germany **Richard Hull**, University of Central Lancashire, United Kingdom
	14:00-14:30	***Lecture 3.2*** **Risk analysis methodology for predicting fire service intervention** **Simon K. Davis**, New Zealand Fire Service, Auckland, New Zealand	***Lecture 4.2*** **Bench-Scale Generation and Characterisation of Toxic Fire Effluents for Evacuation Analysis** **Richard Hull, Anna Stec**, University of Central Lancashire, United Kingdom
	14:30-15:00	***Lecture 3.3*** **Study of the efficiency of the fire extinguishing systems used by fire fighters on the underventilated fires with 3D Firefighting and other application techniques** **D. You[1], P. Jourda[1], F. Gaviot-Blanc[2], A. Joachim[3], G. Mitanchez[4], JP Vantelon[5]** [1] CEA, France, [2] IFP, France, [3] ASN, France, [4] GIMAEX, France, [5] CNRS, France	***Lecture 4.3*** **New Aspects and Developments in the Field of Air Sampling Smoke Detection** **Peter Stahl**, Wagner Schweiz AG, Wallisellen, Switzerland
	15:00-15:30	***Lecture 3.4*** **Operating conditions of fire brigades in tunnel** **Kathrin Grewolls**, Ingenieurbüro für Brandschutz, Ulm, Germany **Ingo Bullerjahn**, BTE-Consult GmbH, Boetzingen, Germany	***Lecture 4.4*** **Chemical analysis of smoke of burning upholstered bus seats** **Simone Krüger, Anja Hofmann, Ulrich Krause**, Federal Institute for Materials Research and Testing, Berlin, Germany
	15:30-16:00	**Coffee break**	

Tuesday June 8, 2010		**Session 5** Topic: **Evacuation** Session Chairman: **N.N.**	**Session 6** Topic: **Fire Safety Engineering** Session Chairman: **Dietmar Hosser**, Braunschweig University of Technology, Germany
	16:00-16:30	***Lecture 5.1*** **Risk Analysis with Evacuation Software – How Should We Interpret Calculated Results?** **Christian Rogsch, Wolfram Klingsch**, University of Wuppertal, Germany	***Lecture 6.1*** **vfdb Guidelines "Methods of Fire Safety Engineering"** **Dietmar Hosser**, Braunschweig University of Technology, Germany
	16:30-17:00	***Lecture 5.2*** **Consideration of multivariate influence factors in evacuation simulations** **Alexander Bernhardt, Ulrich Hauptmanns**, University of Magdeburg, Germany	***Lecture 6.2*** **A holistic, risk-informed safety concept for structural fire protection based on the Eurocodes** **Cornelius Albrecht, Dietmar Hosser**, Braunschweig University of Technology, Germany **Astrid Weilert**, hhpberlin Ingenieure für Brandschutz GmbH, Berlin, Germany
	17:00-17:30	***Lecture 5.3*** **Assessment of Occupant Safety in Places of Assembly** **Burkhard Forell**, Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) mbH, Cologne, Germany **Dietmar Hosser**, Braunschweig University of Technology, Germany	***Lecture 6.3*** **Consideration of active fire protection measures in performance-based fire safety concepts** **Christoph Klinzmann**, hhpberlin Ingenieure für Brandschutz GmbH, Berlin, Germany **Dietmar Hosser**, Braunschweig University of Technology, Germany
	19:00	**Evening reception**	

Wednsday June 9, 2010	**09:00-09:45**	**Invited Lecture** Thema: **Safety concept for structural fire design - application and validation in steel and composite construction** Referent : **Peter Schaumann, Jörg Sothmann**, Leibniz Universität Hannover, Germany **Cornelius Albrecht**, Braunschweig University of Technology, Germany	
		Session 7 Topic: **Fire Protection Concepts** Session Chairman: **Burkhard Forell**, Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) mbH, Germany	**Session 8** Topic: **Fire Simulation** Session Chairman: **Christian Knaust**, Federal Institute for Materials Research and Testing, Berlin, Germany
	09:45-10:15	***Lecture 7.1*** **Real fire testings as verification of existing fire protection constructions** **Tim Mattausch**, DMT GmbH & Co. KG, Dortmund, Germany	***Lecture 8.1*** **ScaRC: An optimized parallelization concept for the FDS-pressure equation based on adaptive mesh refinement techniques** **Susanne Kilian**, hhpberlin, Ingenieure für Brandschutz GmbH, Berlin, Germany
	10:15-10:45	***Lecture 7.2*** **Analysis of position of fire and explosion protection in the republic of Serbia** **Snezana Zivkovic**, University Nis, Serbia	***Lecture 8.2*** **Fast and correct computation** **A comprehensive test concept to proof the new FDS-ScaRC technique** **Matthias Münch**, Freie Universität Berlin, Germany
	10:45-11:15	**Coffee Break**	

Wednsday June 9, 2010			
		Session 9 Topic: **Protective equipment** Session Chairman: **Michael Rost**, Magdeburg-Stendal University of Applied Sciences, Magdeburg, Germany	**Session 10** Topic: **Fire Simulation** Session Chairman: **Reinhard Grabski**, Institute of Fire Department Sachsen-Anhalt, Heyrothsberge, Germany
	11:15-11:45	***Lecture 9.1*** **Firefighting and Rescue Concept for Wildfire, Industrial or Airport scenarios** **Michael Henrichs**, Airmatic-RED Division, Hemer, Germany	***Lecture 10.1*** **Cable Heat Release, Ignition, and Spread in Tray Installations during Fire - The CHRISTIFIRE Project** **Kevin McGrattan, Andrew Lock, Nathan Marsh, Marc Nyden**, Building and Fire Research Laboratory National Institute of Standards and Technology Gaithersburg, Maryland, USA **Jason Dreisbach**, Office of Nuclear Regulatory Research U.S. Nuclear Regulatory Commission Washington DC, USA
	11:45-12:15	***Lecture 9.2*** **Development of a Test Apparatus for Determination of the False-Alarm-Susceptibility of Smoke Detectors** **Thorsten Schultze, Wolfgang Krüll, Ingolf Willms**, University Duisburg-Essen, Germany **André Freiling**, Airbus Operations GmbH, Hamburg, Germany	***Lecture 10.2*** **Modeling Fire Scenarios in Buildings with CFD** **Christian Knaust**, Federal Institute for Materials Research and Testing, Berlin, Germany
	12:15-12:45	***Lecture 9.3*** **The Hollow Glass Ball Technology** **Günter Knopf**, Ingenieurbüro für Anlagentechnischen Brandschutz, Heidesee, Germany	**Lecture 10.3** **Numerical simulation of water mist fire plume interaction by using FDS** **Hemdan Shalaby, Klaus-Jürgen Kohl, Reinhard Grabski**, Institute of Fire Department Sachsen-Anhalt, Heyrothsberge, Germany
	12:45-14:00	**Lunch**	

Wednsday June 9, 2010		Session 11	Session 12
		Topic: **Protective equipment** Session Chairman: **N.N.**	Topic: **Fire Simulation** Session Chairman: **Anja Hofmann**, Federal Institute for Materials Research and Testing, Berlin, Germany
	14:00–14:30	**Lecture 11.1** **Vision Systems for Geo-referenced Wildfire Detection** **Gavin Hough**, EVS Systems PTY Ltd, Durban, South Africa	**Lecture 12.1** **Self ignition of biomass – a statistical study** **Rasmus S. Petersen**, Lyngby-Taarbæk Fire brigade, Denmark **Anne S. Dederichs**, Technical University of Denmark, Kgs. Lyngby
	14:30-15:00	***Lecture 11.2*** **FM Global's New Data Sheet 2-0, Installation Guidelines for Automatic Sprinklers, and Proposed Changes to Data Sheet 8-9, Storage of Class 1, 2, 3, 4 and Plastic Commodities** **Weston C. Baker Jr.**, FM Global Engineering Standards, Norwood, USA	***Lecture 12.2*** **Numerical Investigation of a real fire case with downward fire spread** **Florian Kempel, Anja Hofmann, Bernhard Schartel, Ulrich Krause**, Federal Institute for Materials Research and Testing, Berlin, Germany
	15:00-15:15	**Coffee Break**	
	15:15–15:45	***Lecture 11.3*** **Fire Hazards of Multi-Layer Paint** **Jennifer Rhodes, Richard Hull, Anna Stec**, University of Central Lancashire, United Kingdom	***Lecture 12.3*** **Detailed Measurements in Underventilated Compartment Fires** **Andrew Lock, Matthew Bundy, Rik Johnsson, Cheolhong Hwang, Anthony Hamins**, National Institute of Standards and Technology, Gaithersburg, USA
	15:45-16:15	***Lecture 11.4*** **Complex Estimation of Reliability of intumescent fireproof covers for increase of fire resistance limits for building constructions** **Tatiana Eremina,** State Fire Service Academy of Emergency Control Ministry of Russia, St. Petersburg, Russia **Marina Gravit**, Scientific Innovation Center of Construction and Fire Safety Ltd, St. Petersburg, Russia	***Lecture 12.4*** **Fire and Evacuation Simulations in Alternative Ship Design** **Daniel Povel**, Germanischer Lloyd, Hamburg, Germany
	16:15–16:45	***Lecture 11.5*** **The latin american problem** **Jaime A. Moncada**, International Fire Safety Consulting, Highland, USA **Jaime Moncada-Pérez**, Pirotec Ltd, Bogota, Colombia	***Lecture 12.5*** **Conduction-diffusion problems – „exotics" in fire simulations?** **Ulrich Krause**, Federal Institute for Materials Research and Testing, Berlin, Germany
	16:00-16:15	**Closing remarks**	