## Fire and Evacuation Modeling Technical Conference 2014

Day 1 –	September 8, 2014
08:00	Check-In Continental Breakfast
08:30	Welcome and Introduction
	Improvements in FDS 6 and Development Update Kevin McGrattan, National Institute of Standards and Technology
	Automated Testing Process for FDS 6 Kristopher Overholt, National Institute of Standards and Technology
	Early to Break
10:00	Morning Break
10:20	Pyrolysis Parameterization and Validation for Polymeric Material Jing Li, University of Maryland
	Influence of Input Parameters on the Fire Simulation Corinna Trettin, University of Wuppertal
	Interface Model to Fire-Thermo-Mechanical Performance-Based Analysis of Structures Under Fire Conditions Julio C. Goncalves da Silva, Guest Researchser, National Institute of Standards and Technology
12:00	Lunch
13:20	The Need for a Verification and Validation Protocol for Evacuation Models Enrico Ronchi, Lund University
	The User's Guide to Evacuee Behavior Steve Gwynne, National Research Council Canada
	Lost in Abstraction: The complexity of Real Environments vs. the Assumptions of Models Elisabetta Carattin, IUAV University of Venice
15:00	Afternoon Break
15:20	Fire and Evacuation Simulation in a Low Ceiling Sport Arena Georges Guigay, Verkis Consulting Engineers
	<b>Developing a Swedish Best Practice Guideline for Proper Use of CFD Models when Performing ASET analyses</b> Daniel Rosberg, WSP Sverige AB
	Study of the Dynamics of Fire and Smoke Control in Case of Evacuation in High Buildings, Based on Continuous Model FDS+EVAC Aristides Lopes Silva, Universidade del Cabo Verde
	Evacuation Modeling in Road Tunnel Fire Events – CFD Influencing Evacuation Results Toby Sargant, Hatch Mott MacDonald

17:00 Reception

## Fire and Evacuation Modeling Technical Conference 2014

#### Day 2 – September 9, 2014

08:00	Continental	Breakfast
00.00	Continental	DICURIUSE

08:30 Impact of Soot Particle Size and Agglomeration on Soot Deposition Jason Floyd, Hughes Associates | RJA Group

**Performance Analysis and Shared Memory Parallelization of FDS** Lukas Arnold, Juelich Supercomputing Centre

Numerical Insights into the Parallel Solution of the FDS Pressure Equation: Scalability and Accuracy Susanne Kilian, hhpberlin

#### 10:00 Morning Break

10:20 **Defining a Crowd Safety Factor for the Designs of Assemblies** Rodrigo Machado Tavares, RMT Fire and Crowd Safety

> **Use of Pathfinder in the Study of Occupant Movement in Stairwells** Chris Campbell, The Protection Engineering Group, Inc.

Egress from a Hospital Ward: A Case Study

Grazia Carbotti, Università Campus Bio-Medico di Roma

Effects of Exit Discharge Congestion on the Effective Evacuation Time in a Typical Underground Metro Station Design

Yulianto Sulistyo Nugroho, Fire Safety Engineering Research Group, Universitas Indonesia

12:00 Lunch

13:20 **Pathfinder Verification and Validation Tests** Brian Hardeman, Thunderhead Engineering

> Industry Accepted Design: A Case Study on Prescriptive vs. Performance-Based Design Criteria Mackenzie Hill, Arup

Modeling of Carbon Monoxide Dispersion from Vehicle Exhaust in a Partially-Enclosed Roadway Using FDS Haavard Boehmer, Hughes Associates | RJA Group

Approach to Define the Aerodynamic Free Area for Natural Smoke Vents in a CFD Simulation Environment Lajos Gábor Takács, Budapest University of Technology

#### 15:00 Afternoon Break

15:20 A Partially-Stirred Batch Reactor Model for Under-Ventilated Fire Dynamics Craig Weinschenk, National Institute of Standards and Technology

**Optimization of Smoke Ventilation Strategy in a Typical Underground Metro Station Fire** Yulianto Sulistyo Nugroho, Fire Safety Engineering Research Group, Universitas Indonesia

**Integral Methodology for Fire Sprinkler System Design Following the Performance-Based Design Method** Juan Jose Zapata Franco, Universidad de los Andes

**FDS Simulation of the Combined Use of Sprinklers and Water Mist Fire Extinguishing Systems** Csaba Szikra, Budapest University of Technology

17:00 Adjournment

# Fire and Evacuation Modeling Technical Conference 2014

### Day 3 – September 10, 2014 – PyroSim/Pathfinder Training Workshop

08:00	Workshop Check-In Continental Breakfast
08:30	PyroSim Workshop
10:00	Morning Break
10:20	PyroSim Workshop
12:00	Lunch
13:20	Pathfinder Workshop
15:00	Afternoon Break
15:20	Pathfinder Workshop
17:00	Adjournment