

Fire and Evacuation Modeling Technical Conference 2018

Day 1 – October 1, 2018

8:00 am	Check-In Continental Breakfast	<i>Rio Ballroom</i>
9:00 am	Welcome and Introduction	
9:00 am	Predicting Soot and CO Using a Two-Step Reaction Scheme Kevin McGrattan, National Institute of Standards and Technology	
	Direct Calculation of Ellipse Overlap Areas for Force-Based Models of Pedestrian Dynamics Gary Hughes, California Polytechnic State University	
	The Impact of Stairwell Queues on Egress Time from a Floor Chris Campbell, Arup NY	
10:20 am	Morning Break	
10:45 am	ScaRC is Ready for Use in FDS Susanne Kilian, hhpberlin	
	The Variability of Behavioural Parameters in Egress Simulations of Stadiums John Gales, York University	
	CFD Simulation of Elevation Fire Propagation Protection of French Balconies with Parapet Glass Csaba Szikra, Budapest University of Technology and Economics	
	Automated Grouping, Model Extraction from BIM Data, and Unified Fire-Egress Visualization Brian Hardeman, Thunderhead Engineering	
12:30 pm	Lunch	<i>Local Restaurants</i>
2:00 pm	Modeling Crowd Movement in Large Scale Events, The Case of Carnevale Di Ivrea Elena Caccherano, CANTENE	
	How to Validate Solutions from Simulex Brian Thompson, AEGIS Engineering, PLLC	
	Simulating Real-Time Fire for Firefighter Training Christian Niemand, Universität Kassel	
3:15 pm	Afternoon Break	
3:45 pm	Acceptance Criteria in Fire Safety Engineering, A Review and Case Study Daniel Rosberg, WSP Sweden	
	Fire Investigation in Italian Waste Treatment Plant: Lessons Learned and Future Development Alfredo Romano, TRR S.r.l.	
	Evacuation Analysis in Nursery Schools – Challenges of Parametrizing the Behavior of Children Jan Lyzwa, Technische Universität Braunschweig	
5:00 pm	Adjournment	
5:30 pm	Reception	<i>Patio/Terrace</i>

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Day 2 – October 2, 2018

8:00 am	Day 2 Begin Continental Breakfast	<i>Rio Ballroom</i>
9:00 am	The Unintended Consequences of Ignoring Evacuee Response Steve Gwynne, National Research Council Canada	
	Coupling Fire and Traffic Simulation Models to Set Wildfire Evacuation Triggers Dapeng Li, South Dakota State University	
	Efficiency of the Fire Safety System, Based on the Fire Dynamics Simulator (FDS) Wilson Lima, University of Cape Verde	
10:20 am	Morning Break	
10:45 am	Natural Ventilation of a Short Road Tunnel – Application of FDS+Evac Katie McQuade Jones, WSP USA	
	Bridging the Pre-Movement and Movement Data Gap through Non-FPE Studies Mohammed A. Saeefan, Saudi ARAMCO Oil Company	
	Generalized Collision-Free Velocity Model for Pedestrian Dynamics Qiancheng Xu, Forschungszentrum Jülich GmbH	
	Development of 3D Heat Transfer and Pyrolysis in FDS Randall McDermott, NIST	
12:30 pm	Lunch	<i>Local Restaurants</i>
2:00 pm	Agent Based Modeling of Meta-Communication with Assisted People During Emergency Egress Alberto Tinaburri, Università di Roma Tor Vergata	
	Effect of Weather Conditions on Portable Tank Heating by a Pool Fire Garrett Mattos, Friedman Research Corporation	
	Estimating Probability of Fatalities in Long Tunnels with Fds and 1D Human Behavior Oriol Rios, CERN Fire Safety Engineering Team	
3:15 pm	Afternoon Break	
3:45 pm	Effect and Appropriate Use of Time_Shrink_Factor in FDS Rosalie Wills, Koffel Associates	
	Experimental Data and Validation Study of Large Scale Fires on External Walling of Tall Buildings Paul Blake, University of Leeds	
	Modeling of Computational Fluid Dynamics and Pedestrian Simulations in a Subway Station in Turkey Cihan Kayhan, YÜKSEL PROJE A.Ş.	
5:00 pm	Adjournment	

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Day 3 – October 3, 2018

8:00 am	Day 3 Begin Continental Breakfast	<i>Rio Ballroom</i>
9:00 am	How to Model Complex Behavior by Combining Simple Control Functions Jason Floyd, Jensen Hughes	
	Simulation of Complex Geometry in FDS Marcos Vanella, NIST	
	Visualizing Smoke and Fire Glenn Forney, NIST	
10:30 am	Research, Tools & Methods for Fire Protection Engineers: SFPEs Plan Forward Chris Jelenewicz, Technical Director – SFPE	
	R&D Priorities in Fire and Evacuation Modelling Panel Discussion / Open Forum	
11:30 am	Conference End	
1:00 pm	Arrive at NIST for Optional Laboratory Tour Requires Advance Registration	
1:30 pm	NIST Laboratory Tour Kevin McGrattan, National Institute of Standards and Technology	
2:30 pm	NIST Tour End	

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