2020 NIST Disaster Resilience Symposium

Agenda

Dates: July 28 - July 29, 2020



ET	CT	MT	PT	No. Day 1: July 28, 2020							
10:15	9:15	8:15	7:15		Opening Remarks from the Director of the Engineering Laboratory				Howard Harary (NIST)		
10:30	9:30	8:30	7:30	1-Key	From Disasters to	Birgitte Messerschmidt (National Fire Protection Association)					
11:30	10:30	9:30	8:30	30 min break							
(Conci	urrent	,		Day 1 Session 1						
	Sess	ions		No.	Track 1: WUI	Speaker	No.	Track 2: Earthquake	Speaker		
					Moderator: Jiann Yang			Moderators: Steven McCabe & Chris Segura			
12	11	10	9	16-1	Imaging pyrometry of smoldering wood embers	Peter Sunderland (University of Maryland)	18-5	Seismic Rehabilitation of Existing Unreinforced Masonry Buildings	Andreas Stavridis (Research Foundation for SUNY)		
12:30	11:30	10:30	9:30	16-2	Development of Methodology for Determination of Ignition Propensity by Firebrands in Wildland-Urban Interface	Babak Shotorban (University of Alabama, Huntsville)	18-6	Designing for and Assessing Functional Recovery in Seismic Retrofit of Existing Concrete Buildings: A Framework	Abbie B. Liel, Maria Koliou (University of Colorado / Texas A&M)		
1	12	11	10	16-3	Improving Disaster Resilience by Quantifying WUI Community Ember Exposure	Dac Nguyen, Nigel Kaye (Clemson University)	18-7	Seismic Assessment and Retrofit Methods for Existing Non- Ductile Reinforced Concrete Wall Structures	Juan Murcia-Delso, Ioannis Koutromanos (University of Texas at Austin / Virginia Tech)		
1:30	12:30	11:30	10:30			1	hr bre	rak	_		

				Day 1 Session 2						
ET	CT	MT	PT	No.	Track 1: WUI	Speaker	No.	Track 2: Earthquake	Speaker	
					Moderator: Eric Link			Moderators: Steven McCabe & Chris Segura		
2:30	1:30	12:30	11:30	18-1	Assessing long-range firebrand impingement rates in recent WUI wildfire events	Janice Coen (University Corporation for Atmospheric Research)	16-5	Liquefaction-Targeted Ground Motion Parameters	Steven Kramer, Andrew Makdisi (University of Washington)	
3	2	1	12	18-2	Development of a Fundamental Model for Ignition of Structural Wildland-Urban Interface (WUI) Fuels Subjected to Firebrand Attack	Michael Gollner, Stanislav Stoliarov (University of California, Berkeley / University of Maryland)	16-6	Decision-Oriented Column Simulation Capabilities for Enhancing Disaster Resilience of Reinforced Concrete Buildings	Wassim Ghannoum, Adolfo Matamoros, Sergio Brena (University of Texas, San Antonio / UMass Amherst)	
3:30	2:30	1:30	12:30	18-3	Firebrand Material Ignition Conditions & Assessment Method Development	Brian Lattimer, Jonathan Hodges (Virginia Tech / Jensen Hughes)	16-9	Aging Effects in the Seismic Performance of RC Structures	Petros Sideris, Mija Hubler (Texas A&M / University of Colorado-Boulder)	
4	3	2	1		30 min break					
					Day 1 Session 3					
ET	CT	MT	PT	No.	Track 1: DFS	Speaker	No.	Track 2: Earthquake	Speaker	
					Moderator: Maria Dillard			Moderators: Jay Harris & Chris Segura		
4:30	3:30	2:30	1:30	16-4	Improving Disaster Resilience Through Scientific Data Collection with UAV Swarms	Falko Kuester (University of California, San Diego)	16-8	Seismic Assessment, Retrofit Strategies and Policy Implications for Vulnerable Existing Steel Buildings	Gregory Deierlein (Stanford University)	
5	4	3	2	18-4	Leveraging Uncertain Disaster Field Data for Community-Scale Assessment of Connected Buildings and Lifelines	Iris Tien (Georgia Tech Research Corporation)	16-7	Resilience of Steel Moment Frame Systems with Deep Slender Column Sections	Jason McCormick (University of Michigan)	
5:30	4:30	3:30	2:30	End Day 1						

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ET	CT	MT	PT	No.			
11	10	9	8	2-Key	Perspectives from 40 Years of Tornado Research	Erik Rasmussen (Cooperative Institute for Mesoscale Meteorological Studies)	
12	11	10	9		1 hr break		
					Day 2 Session 1		
				No.	Track 3: Wind	Speaker	
					Moderator: Scott Weaver		
1	12	11	10	18-8	Measurement of Near-Surface Pressure, Wind and Wind-Induced Load Characteristics Using Novel Sensors in Thunderstorm, Tornado, and Tornado-Like Environments	Franklin T. Lombardo (University of Illinois)	
1:30	12:30	11:30	10:30	18-9	Spatiotemporal Maps of Damaging Winds from Integrated Remote and In Situ Observations	Michael Biggerstaff (University of Oklahoma)	
2	1	12	11	18-10	Wireless Sensor Network (WSN) System and LIDAR Experiments for the Characterization of Strong Wind Loads on Non-Structural Components and Near-Surface Wind Profiles	Chelakara Subramanian, Jean- Paul Pinelli, Steven Lazarus (Florida Institute of Technology)	
2:30	1:30	12:30	11:30		1 hr break		

				Day 2 Session 2				
ET	CT	MT	PT	No. Track 3: Wind	Speaker			
				Moderator: Marc Levitan				
3:30	2:30	1:30	12:30	18-11 Innovative Measurement and Modeling of Dynamical Social and Health Effects of Windstorms	Daan Liang (University of Alabama)			
4	3	2	1	18-12 4-D Measurement and Modeling of Engineering-Relevant Windstorm Characteristics	John Schroeder (Texas Tech University)			
4:30	3:30	2:30	1:30	16-11 Development of Tornado Design Criteria for Buildings and Shelters Subject to Tornado Induced Loads	Peter Vickery (Applied Research Associates Inc.)			
5	4	3	2	16-10 Coastal Inundation Events in Developed Regions	Andrew Kennedy (University of Notre Dame)			
5:30	4:30	3:30	2:30	End Day 2				