

2019 NIST Disaster Resilience Symposium

Preliminary Agenda

Dates: August 7th-8th, 2019



7-Aug

Day 1	Item	Speaker	
8:00 AM	<i>Registration / Sign-in</i>		
9:00	<i>Welcome and Overview</i>	Symposium Chair	(Green Auditorium)
9:05	<i>Opening Remarks</i>	Howard Harary	Director, Engineering Laboratory, NIST
9:15	<i>Keynote - Building a Resilient Society in Response to Wildfires</i>	Albert Simeoni	Professor and Interim Department Head, Department of Fire Protection Engineering, Worcester Polytechnic Institute, Worcester MA
10:15	<i>Break*</i>		
10:45	<i>WUI Research @ NIST</i>	Nelson Bryner	Chief, Fire Research Division, NIST
11:15	<i>Earthquake Research @ NIST</i>	Steven McCabe	Director, NEHRP, Leader, Earthquake Engineering Group, NIST
11:45	<i>Lunch</i> (food for purchase in cafeteria)		
	Concurrent Sessions		
	Track 1 = Earthquake (Heritage Room)		Track 2 = Fire (Portrait Room)
	<u>Moderator: Steven McCabe</u>		<u>Moderator: Jiann Yang</u>
1:00 - 2:30	<i>Liquefaction-Targeted Ground Motion Parameters</i>	Steven Kramer (University of Washington)	<i>Temperature Measurements of Airborne Firebrands</i> Yannick Alexis (University of Maryland)
	<i>Decision-Oriented Column Simulation Capabilities for Enhancing Disaster Resilience of Reinforced Concrete Buildings</i>	Wassim Ghannoum (University of Texas, San Antonio)	<i>Development of Methodology for Determination of Ignition Propensity by Firebrands in Wildland-Urban Interface</i> Babak Shotorban (University of Alabama, Huntsville)
2:30	<i>Break*</i>		
3:00 - 5:15	<i>Resilience of Steel Moment Frame Systems with Deep Slender Column Sections</i>	Jason McCormick (University of Michigan)	<i>Improving Disaster Resilience by Quantifying WUI Community Ember Exposure</i> Nigel Kaye (Clemson University)
	<i>Seismic Assessment, Retrofit Strategies and Policy Implications for Vulnerable Existing Steel Buildings</i>	Gregory Deierlein (Stanford University)	<i>Biomacromolecules as Flame Retardants for Wood-Based Construction</i> Douglas Fox (American University)
	<i>Integrating Aging Effects in Performance-Based Seismic Design and Assessment of Reinforced Concrete Structures</i>	Petros Sideris (Texas A&M) & Mija Hubler (Colorado University)	<i>Firebrand ignition of attic insulation: Characterization of heat transfer mechanisms</i> Ofodike Ezekoye (University of Texas at Austin)
6:00-7:30	Networking Event	Courtyard Gaithersburg	Washingtonian Center, The Bistro (2 nd floor)**

8-Aug

Day 2	Item	Speaker	
8:00 AM	Registration / Sign-in		
			(Green Auditorium)
8:50	NIST and Disaster Resilience	Jason Averill	Chief, Materials and Structural Systems Division, NIST
9:00	Keynote - Earthquake Engineering: Leading the way for Disaster Resilience	James Harris	President, J. R. Harris & Company, Denver, CO
10:00	Structures/Wind Research @ NIST	Joseph Main	Research Structural Engineer, Structures Group, NIST
10:30	Break*		
11:00	Disaster and Failure Studies @ NIST	Judith Mitrani-Reiser	Director, Disaster and Failure Studies Program, NIST
11:30	Hurricane Michael Reconnaissance	Fahim Sadek	Research Structural Engineer, Structures Group, NIST
11:45	Camp Fire Reconnaissance	Alex Maranghides	Wildland Urban Interface Fire Group, NIST
12:15	Lunch		(food for purchase in cafeteria)
	Track 3 = Wind / DFS (Portrait Room)		
	Moderator: Marc Levitan		
1:15 - 3:30	Improving Disaster Resilience Through Scientific Data Collection with UAV Swarms	Falko Kuester (University of California, San Diego)	
	Coastal Inundation Events in Developed Regions	Andrew Kennedy (University of Notre Dame)	
	Development of Tornado Design Criteria for Buildings and Shelters Subject to Tornado Induced Loads	Peter Vickery (Applied Research Associates Inc.)	
3:30	Closing	Symposium Chair	
3:35	Tours of National Fire Research Laboratory (NFRL) or Net-Zero Energy Residential Test Facility (NZERTF)		

*coffee and refreshments for purchase in the cafeteria

**transportation to hotel is on your own unless you booked under the block rate