

# 2018 NIST Disaster Resilience Symposium

## Final Agenda

Dates: August 14<sup>th</sup>-15<sup>th</sup>, 2018



Day 1	Item	Speaker	
8:30 AM	Registration / Sign-in		
8:30	"Meet and Greet" (Portrait Room*)		
9:30	Welcome and Overview	Symposium Chair	(Green Auditorium)
9:35	Opening Remarks	Howard Harary	Director, Engineering Laboratory, NIST
9:45	NIST and Disaster Resilience	Jason Averill	Chief, Materials and Structural Systems Division, NIST
10:00	Keynote - <i>Lessons Learned from Extreme Events for Infrastructure Resilience</i>	Tom O'Rourke	Thomas R. Briggs Professor of Engineering, Cornell University
11:00	<i>Break*</i>		
11:15	Disaster and Failure Studies	Judith Mitrani-Reiser	Director, Disaster and Failure Studies Program, NIST
11:30	Earthquakes	Steven McCabe	Director, NEHRP, Leader, Earthquake Engineering Group, NIST
11:45	Structures / Wind	Long Phan	Leader, Structures Group, NIST
12:00	Wildland-Urban Interface Fires	Nelson Bryner	Chief, Fire Research Division, NIST
12:15	<i>Lunch</i>		
	<b>Concurrent Sessions</b>		
	<b>Track 1 = Earthquake</b> (Green Auditorium)		<b>Track 2 = Fire</b> (Portrait Room)
	Moderator: <u>Steven McCabe</u>		Moderator: <u>Erica Kuligowski</u>
1:15 - 2:45	<i>Integrating Aging Effects in Performance-Based Seismic Design and Assessment of Reinforced Concrete Structures</i>	Petros Sideris (Texas A&M)	<i>Biomacromolecules as Flame Retardants for Wood-Based Construction</i> Douglas Fox (American University)
	<i>Seismic Assessment, Retrofit Strategies and Policy Implications for Vulnerable Existing Steel Buildings</i>	Gregory Deierlein & Anne Hulsey (Stanford University)	<i>Improving Disaster Resilience by Quantifying WUI Community Ember Exposure</i> Nigel Kaye (Clemson University)
2:45	<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>Development of Methodology for Determination of Ignition Propensity by Firebrands in Wildland-Urban Interface</i> Babak Shotorban (University of Alabama, Huntsville)
	<i>Decision-Oriented Column Simulation Capabilities for Enhancing Disaster Resilience of Reinforced Concrete Buildings</i>	Wassim Ghannoum (University of Texas, San Antonio)	<i>Temperature Measurements of Airborne Firebrands</i> Dennis Kim (University of Maryland)
	<i>Liquefaction-Targeted Ground Motion Parameters</i>	Steven Kramer (University of Washington)	
5:30-7:00	Networking Event	Courtyard Gaithersburg Washingtonian Center, The Bistro (2 <sup>nd</sup> floor)**	

Day 2	Item	Speaker	
9:30 AM	NIST Research - Community Resilience	Therese McAllister	Leader, Community Resilience Group, NIST
10:00	NIST Research - Earthquake Engineering	Steven McCabe	Director, NEHRP, Leader, Earthquake Engineering Group, NIST
10:30	NIST Research - Alkali-Silica Reaction Project	Long Phan	Leader, Structures Group, NIST
11:00	<i>Break*</i>		
11:15	NIST Research - Disaster and Failure Studies (DFS) / Resilience	Erica Kuligowski	Research Social Scientist, WUI Fire Group, NIST
11:30		Maria Dillard	Research Social Scientist, Community Resilience Group, NIST
11:45	NIST Research - Wildland-Urban Interface (WUI) Fires	Nelson Bryner	Chief, Fire Research Division, NIST
12:15	<i>Lunch</i>		
	<b>Track 3 = Wind / DFS</b> (Green Auditorium)		
	<u>Moderator: Long Phan</u>		
1:15 - 3:30	<i>Development of Tornado Design Criteria for Buildings and Shelters Subject to Tornado Induced Loads</i>	Peter Vickery (Applied Research Associates Inc.)	
	<i>Improving Disaster Resilience Through Scientific Data Collection with UAV Swarms</i>	Falko Kuester (University of California, San Diego)	
	<i>Coastal Inundation Events in Developed Regions</i>	Andrew Kennedy (University of Notre Dame)	
3:30	Closing Remarks	Symposium Chair	
3:45-5:00	NIST Lab Tour - NFRL - sign up at the registration desk		

\*coffee and refreshments for purchase in the cafeteria

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