

# 2021 NIST Disaster Resilience Symposium



## Agenda

Dates: July 20 - July 21, 2021

ET	CT	MT	PT	Day 1: July 20, 2021					
10:00	9:00	8:00	7:00	Opening Remarks from the Director of the Engineering Laboratory			Joannie Chin (NIST)		
10:15	9:15	8:15	7:15	Address by United States Congresswoman Zoe Lofgren, 19 <sup>th</sup> District of California			Zoe Lofgren (U.S. House of Reps.)		
10:30	9:30	8:30	7:30	<i>Making The Case for Resilience: Why Law and Policy Must Be Informed By Science</i>			Monica Sanders (U. of Delaware)		
11:30	10:30	9:30	8:30	10 min break					
11:40	10:40	9:40	8:40	<i>NIST Statutory Programs Roundtable</i> *Moderated by Maria Dillard, Associate Lead Investigator, Hurricane Maria Program, NIST					
				Director, Disaster & Failure Studies, NIST			Tanya Brown-Giammanco		
				Director, National Windstorm Impact Reduction Program, NIST			Scott Weaver		
				Chief, Fire Research Division, NIST			Nelson Bryner		
				Director, National Earthquake Hazard Reduction Program, NIST			Steve McCabe		
12:30	11:30	10:30	9:30	30 min break					
Concurrent Sessions				Day 1 Session 1					
				Track 1: WUI		Track 2: Wind		Speaker	
				<a href="#">Link to Join Session: TBD</a>		<a href="#">Link to Join Session: TBD</a>		<a href="#">Moderator(s): Eric Link</a>	
1:00	12:00	11:00	10:00	<i>Imaging pyrometry of smoldering wood embers</i>	Peter Sunderland (U. of Maryland)	<i>4-D Measurement and Modeling of Engineering-Relevant Windstorm Characteristics</i>	John Schroeder (Texas Tech. U.)		
1:30	12:30	11:30	10:30	<i>Improving Disaster Resilience by Quantifying WUI Community Ember Exposure</i>	Dac Nguyen, Nigel Kaye (Clemson U.)	<i>Spatiotemporal Maps of Damaging Winds from Integrated Remote and In Situ Observations</i>	Michael Biggerstaff (U. of Oklahoma)		
2:00	1:00	12:00	11:00	<i>Assessing long-range firebrand impingement rates in recent WUI wildfire events</i>	Janice Coen (U. Corp. for Atm. Res.)	<i>Wireless Sensor Network (WSN) System and LIDAR Experiments for the Characterization of Strong Wind Loads on Non-Structural Components and Near-Surface Wind Profiles</i>	Chelakara Subramanian, Jean-Paul Pinelli, Hadley Besing (Florida Inst. of Tech.)		
2:30	1:30	12:30	11:30	30 min break					

<i>Concurrent Sessions</i>				<b>Day 1 Session 2</b>			
				<b>Track 1: WUI/EQ</b>		<b>Speaker</b>	<b>Track 2: Wind/DFS</b>
<b>ET</b>	<b>CT</b>	<b>MT</b>	<b>PT</b>	<u>Link to Join Session: TBD</u>	<u>Moderator(s): Eric Link, Siamak Sattar</u>	<u>Link to Join Session: TBD</u>	<u>Moderator(s): Maria Dillard</u>
3:00	2:00	1:00	12:00	<i>Development of a Fundamental Model for Ignition of Structural Wildland-Urban Interface (WUI) Fuels Subjected to Firebrand Attack</i>	Michael Gollner, Stanislav Stoliarov Jacques De Beer (U. of California, Berkeley, U. of Maryland)	<i>Innovative Measurement and Modeling of Dynamical Social and Health Effects of Windstorms</i>	Daan Liang Zhen Cong Guofeng Cao (U. of Alabama, U. Texas Arlington, U. of Colorado)
3:30	2:30	1:30	12:30	<i>Firebrand Material Ignition Conditions &amp; Assessment Method Development</i>	Brian Lattimer, Jonathan Hodges (Virginia Tech. Jensen Hughes)	<i>Measurement of Near-Surface Pressure, Wind and Wind-Induced Load Characteristics Using Novel Sensors in Thunderstorm, Tornado, and Tornado-Like Environments</i>	Franklin T. Lombardo (U. of Illinois)
4:00	3:00	2:00	1:00	<i>Seismic Assessment, Retrofit Strategies and Policy Implications for Vulnerable Existing Steel Buildings</i>	Francisco Galvis Gregory Deierlein (Stanford U.)	<i>Coastal Inundation Events in Developed Regions</i>	Andrew Kennedy (U. of Notre Dame)
4:30	3:30	2:30	1:30	<i>Resilience of Steel Moment Frame Systems with Deep, Slender Column Sections</i>	Jason McCormick (U. of Michigan)	<i>Leveraging Uncertain Disaster Field Data for Community-Scale Assessment of Connected Buildings and Lifelines</i>	Iris Tien (Georgia Tech. Res. Corp.)
5:00	4:00	3:00	2:00	<b>End Day 1</b>			

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ET	CT	MT	PT	Day 2: July 21, 2021	
11:00	10:00	9:00	8:00	<i>Functional Recovery: What it Means to Design for Community Resilience</i>	David Bonowitz
12:00	11:00	10:00	9:00	<i>30 min break</i>	
<b>Day 2 Session 1</b>					
<b>Track 3: Earthquake</b>					
<u>Link to Join Session: TBD</u>					
12:30	11:30	10:30	9:30	<i>Liquefaction-Targeted Ground Motion Parameters</i>	Steven Kramer, Andrew Makdisi (U. of Washington)
1:00	12:00	11:00	10:00	<i>Decision-Oriented Column Simulation Capabilities for Enhancing Disaster Resilience of Reinforced Concrete Buildings</i>	Wassim Ghannoum, Adolfo Matamoros, Sergio Brena (U. of Texas, San Antonio, UMass Amherst)
1:30	12:30	11:30	10:30	<i>Aging Effects in the Seismic Performance of RC Structures</i>	Petros Sideris, Mija Hubler (Texas A&M, U. of Colorado)
2:00	1:00	12:00	11:00	<i>1 hr break</i>	

<b>Day 2 Session 2</b>				
<b>Track 3: Earthquake</b>				<b>Speaker</b>
<b>ET</b>	<b>CT</b>	<b>MT</b>	<b>PT</b>	<u>Moderator(s):</u> <u>Sissy Nikolaou</u>
				<u>Link to Join Session: TBD</u>
3:00	2:00	1:00	12:00	<i>Seismic Rehabilitation of Existing Unreinforced Masonry Buildings</i> Andreas Stavridis Michel Bruneau (Res. Found. for SUNY)
3:30	2:30	1:30	12:30	<i>Seismic Assessment and Retrofit Methods for Existing Non-Ductile Reinforced Concrete Wall Structures</i> Juan Murcia-Delso, Ioannis Koutromanos (U. of Texas at Austin, Virginia Tech.)
4:00	3:00	2:00	1:00	<i>Designing for and Assessing Functional Recovery in Seismic Retrofit of Existing Concrete Buildings: A Framework</i> Abbie B. Liel, Maria Koliou (U. of Colorado, Texas A&M)
4:30	3:30	2:30	1:30	NSF/DR Grants Program Presentation Jacqueline (Jack) Meszaros (National Science Foundation)
5:00	4:00	3:00	2:00	<b>End Day 2</b>