

2026 NIST-NSF Disaster Resilience Research Symposium

Agenda

Dates: August 18th-19th, 2026

ET

Day 1: August 18th, 2026

9:00 AM	Welcome from the Symposium Co-Chairs	
9:05 AM	Opening Remarks	
9:15 AM	Keynote: Jacqueline Meszaros	
10:00 AM	20 min break	
	Fire and Heat Modeling	Speaker
	Moderator: Savannah Wessies	
10:20 AM	<i>Computationally Efficient Modeling Framework for Predicting Infrastructure Ignition due to Firebrand Showers</i>	Brian Lattimer
10:40 AM	<i>Development of a quantitative assessment model of WUI fire resilience</i>	Haejun Park
11:00 AM	<i>Snuff It Out: Extinguishing the Disparity of Access to Shelters for Disadvantaged Communities in Wildfire-Prone Areas</i>	Alireza Ermagun
11:20 AM	<i>Disinfection Resiliency and Microbial Risk in Drinking Water Distribution Systems During Extreme Heat Disasters</i>	Kadmiel Adusei
11:40 AM	<i>Integrating Remote Sensing and Deep Learning for Predictive Surveillance of Mine Tailings Impoundments</i>	Thomas Oommen
12:00 PM	1.5 hour lunch break	
	Windstorm	Speaker
	Moderator: Joel Cline	
1:30 PM	<i>Forcings, Characteristics, and Loadings of Damaging Winds in Derechos and Other High-Impact Thunderstorm Events</i>	Robert Trapp
1:50 PM	<i>Assessment of Building Resiliency in Tornadoes Considering Transient Internal Pressure Effects</i>	Hannah Blum
2:10 PM	<i>Quantifying the Risk & Impact of Wind and Hail Storms in a Warming Climate</i>	John Allen
2:30 PM	<i>Analysis, Comparison and Experiment Investigation of Hurricane Wind, Storm-Surge and Wave Load Model</i>	Landolf Rhode-Barbarigo, Brian Haus
2:50 PM	20 min break	
	Earthquake	Speaker
	Moderator: Amin Hariri	
3:10 PM	<i>Advancing Earthquake Engineering of Cast-in-Place Concrete Diaphragms with Openings</i>	Travis Thonstad
3:30 PM	<i>Resilience-Based Design of Buildings with Accelerated Post-Earthquake Functional Recovery</i>	Georgios Tsampras
3:50 PM	<i>Developing a Selective Column Retrofit Framework for Damaged and Aging Reinforced Concrete Bldgs. to Improve Community Resilience after Earthquakes</i>	Sergio Breña

4:10 PM	<i>AI-Powered Sequential Decision Support for Adaptive Post-Earthquake Restoration of Regional Transportation Networks</i>	Ao Du
4:30 PM	End of Day 1: Closing Remarks (DRRG Co-Chairs)	
ET	Day 2: August 19th, 2026	
9:00 AM	<i>Opening Remarks (Day 2)</i>	
	Infrastructure and Community Resilience	Speaker
	Moderator: Ken Harrison	
9:05 AM	<i>Multimodal Disaster Impact Assessment Models for Enhanced Resilience</i>	Budhaditya De
9:25 AM	<i>Place-Based, Human-Centered Networks to Enhance Community Resilience and Equity</i>	Chen Chen
9:45 AM	<i>Examining the Vulnerability and Recovery of Small Farms to Natural Hazards and the Impact to Rural Community Resilience</i>	Christine Wittich
10:05 AM	<i>Engineering for Building Resilience under Thunderstorm/Downburst Winds</i>	Ahson Kareem
10:25 AM	<i>Resilient Power Infrastructure in Islanded Communities in a Changing Climate</i>	Jorge Gonzalez-Cruz
10:45 AM	<i>15 min break</i>	
	Coastal Communities	Speaker
	Moderator: Karen De Lannoye	
11:00 AM	<i>Enhancing Coastal Resilience through Participatory Transformation of Barrier Islands</i>	Joel Dietrich
11:20 AM	<i>Combined Wave-Current-Debris Loading of Near-Coast Structures</i>	Andrew Kennedy
11:40 AM	<i>Disaster Resilient Acute Care: Protecting Infrastructures from Changing Flood Risk</i>	Shangjia Dong
12:00 PM	<i>An Integrated Housing Design and Logistics Operations Modeling and Analysis Framework for Hurricane Relief</i>	Yongjia Song
12:20-12:30	End of Day 2: Closing Remarks Track 1 (DRRG Co-Chair)	