

# Disaster Resilience Symposium

August 14-15, 2018

Building 101, NIST Campus,  
Gaithersburg, MD



Credit: Jace Anderson/FEMA



Credit: Dept. of Homeland Security S&T



Credit: J. L. Harris/NIST

The National Institute of Standards and Technology is pleased to announce the 2018 NIST Disaster Resilience Symposium.

The symposium will feature presentations from over a dozen grant awardees funded by NIST and the latest research from related internal NIST projects. Topics will include disaster and failure studies, earthquake engineering, wind engineering, community resilience, and wildland-urban interface fires.

- Development of Tornado Design Criteria for Buildings and Shelters Subject to Tornado Induced Loads
- Improving Disaster Resilience Through Scientific Data Collection with UAV Swarms
- Seismic Assessment, Retrofit Strategies and Policy Implications for Vulnerable Existing Steel Buildings
- Integrating Aging Effects in Performance-Based Seismic Design and Assessment of Reinforced Concrete Structures
- Resilience of Steel Moment Frame Systems with Deep Slender Column Sections
- Coastal Inundation Events in Developed Regions
- Decision-Oriented Column Simulation Capabilities for Enhancing Disaster Resilience of Reinforced Concrete Buildings
- Liquefaction-Targeted Ground Motion Parameters
- Improving Disaster Resilience by Quantifying WUI Community Ember Exposure
- Biomacromolecules as Flame Retardants for Wood-Based Construction
- Temperature Measurements of Airborne Firebrands
- Development of Methodology for Determination of Ignition Propensity by Firebrands in Wildland-Urban Interface

The symposium keynote speaker is Dr. Tom O'Rourke, the Thomas R Briggs Professor of Engineering in the School of Civil and Environmental Engineering at Cornell University. Tom is an internationally recognized expert in geotechnical earthquake engineering and has played a key role in advancing the state-of-art regarding the importance of lifelines in achieving resilient infrastructure. The title of his presentation is "Lessons Learned from Extreme Events for Infrastructure Resilience."

For full details and to register, please visit the symposium website.

<https://www.nist.gov/news-events/events/2018/08/disaster-resilience-symposium>

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