



RESILIENCE METRICS & SOCIAL FACTORS INCLUDING FAIRNESS AND EQUITY

FRIDAY: SESSION 2, TRACK 2

SESSION CHAIRS

- Elaina Sutley, University of Kansas
- Sara Hamideh, Stony Brook University

SPEAKERS

- Maria Perez-Lugo, University of Puerto Rico-Mayaguez
- Jamie Kruse, East Carolina University
- Daniel Kushner (Commonwealth Edison)

SESSION ABSTRACT

Despite the prolific history of social science disaster resilience research, integration of this knowledge into design of resilient structures and infrastructure systems has been slow at best. This session is designed to facilitate a discussion between social scientists and the engineering community about the socioeconomic metrics of resilience in particular metrics that are crucial for making equitable resilient infrastructure systems. Increasing inequalities in disaster risks and losses highlight the need for research agendas that focus on the metrics and mechanisms of inequality and highlight the many ways in which our risk distribution and management systems have to change to achieve resilience for all. This session will include four invited speakers highlighting different community resilience metrics and socioeconomic factors in their research. Each speaker will have 15 minutes to present. All questions will be discussed at the end during a 15-minute Q&A with the audience.

TOPICS

The topics of the presentations will include (1) The effects of infrastructure and utility service disruptions after disasters based on socio-economic vulnerabilities; (2) Infrastructure challenges in Puerto Rico's recovery after Hurricane Maria; and (3) Multi-attribute community resilience indicators for use in decision support models.