COMMUNITY & INFRASTRUCTURE MODELING TOOLS

MONDAY: TRACK 2

SESSION ABSTRACT

To understand the impacts of manmade and natural threats to our communities and infrastructures, the ability to model the dependencies and interdependencies is paramount to understanding the temporal and spatial relationships between infrastructures and community networks. The ability to correlate the cognitive and social interactions are necessary to understanding the effectiveness and ultimately the preparedness of the individual and collective response to events, which by nature can have unexpected consequences especially considering cyber-attacks. This track will overview the use and benefit of a tool in support of infrastructure and one in community resilience modeling/simulation, a panel on gaps/needs, and hands on instruction for those having interest to gaining a more in-depth understanding.

The following four sessions are planned, starting with individual sessions to overview two tools, followed by a panel to discuss gaps/needs in modeling and simulation, and then concluding with an interactive session for those providing advance notification to ensure access and receive hands on instruction.

SESSION 1:
Community Resilience Modeling Tool Instruction: Interdependent Networked Community Resilience Modeling Environment (IN-CORE)
Jong Sung Lee, University of Illinois-Urbana-Champaign

SESSION 2:
Community Resilience Modeling Tool Instruction: All Hazards Analysis (AHA)
Ryan Hruska, Idaho National Laboratory

SESSION 3:
Community and Infrastructure Modeling/Simulation Needs/Challenges
Ryan Hruska, Idaho National Laboratory
Jong Sung Lee, University of Illinois-Urbana-Champaign
Thomas Overby, Texas A&M
John Van de Lindt, CSU

SESSION 4
IN-CORE and AHA Interactive Session (Advance Registration Required)
Ryan Hruska, Idaho National Laboratory
Jong Sung Lee, University of Illinois-Urbana-Champaign