MPACT WEEK

MULTI-HAZARD RESILIENCE | COASTAL INFRASTRUCTURE | OCTOBER 22, 2014

RESEARCH POSTERS

Posters are in order of easel number/position.

- 1. An Investigation of Thermally-Induced Failure of Lithium Ion Batteries. Xuan Liu, Stanislav I. Stoliarov, Matthew Denlinger, Alvaro Masias and Kent Snyder.
- 2. Prediction of Flame to Surface Heat Feedback and Vertical Flame Spread in Wall Fire. Isaac T. Leventon and Stanislav I. Stoliarov.
- 3. Solar-Powered Membrane System for Emergency Drinking Water Supply. Catherine Birney, Vincent Fiedler, Michael Lee, Elizabethe Manzi, and Baoxia Mi.
- 4. A Standard Methodology to Characterize Composite Materials for Pyrolysis Models. Mark McKinnon and Prof. Stanislav Stoliarov.
- 5. Regional Evacuation Planning with General Purpose Computing on Graphics Processing Units. David Prentiss and Elise Miller-Hooks.
- 6. Design of Evacuation and Shelter Systems in Buildings. Reza Faturechi, Lei Feng, Elise Miller-Hooks and Shabtai Isaac.
- 7. Evaluating and optimizing resilience of airport pavement and freight transportation networks. Reza Faturechi, Eyal Levenberg and Elise Miller-Hooks.
- 8. Travel Time Resilience of Passenger Traffic in Roadway Networks. Reza Faturechi and Elise Miller-Hooks.
- 9. A Mathematical Framework for Quantifying and Optimizing Protective Actions for Civil Infrastructure Systems. Reza Faturechi and Elise Miller-Hooks.
- 10. NSF RIPS II: Quantifying Disaster Resilience of Critical Infrastructure-based Societal Systems with Emergent Behavior and Dynamic Interdependencies. Elise Miller-Hooks, Judith Mitrani-Reiser, Elizabeth Petrun, Matthew Green, Joanne Nigg, Rachel Davidson, Helaine Rutkow, Thomas Kirsch and Jonathan Links.
- 11. Resource Deployment in Urban Search and Rescue. Mercedeh TariVerdi, Elise Miller-Hooks and Matti Adan.
- 12. Supporting Mobility-Impaired Populations in Emergency Evacuation. Lei Feng, Neža Vodopivec and Elise Miller-Hooks
- 13. Objective Decision-Making Tools for Transportation Infrastructure Investment to Combat the Impacts of Sea Level Rise and Climate Change. Ali Asadabadi and Elise Miller-Hooks.
- 14. Resilience: An Indicator of Recovery Capability in Intermodal Freight Transport. Lichun Chen, Rahul Nair, Hakob Avetisyan and Elise Miller-Hooks.
- 15. Characterizing Properties for Pyrolysis Modeling of Fiberglass Reinforced Polyester Composites. Geraldine E. Martin, Mark B. McKinnon and Stanislav I. Stoliarov.
- 16. Milligram-scale Flaming Calorimeter: A New Tool For Flammability Assessment of mg-scale Pyrolyzable Solid Samples. Xi Ding, Fernando Raffan and Stanislav Stoliarov.
- 17. Resilient Communities Enabled by Sustainable Buildings. Jelena Srebric, Mohammad Heidarinejad, Nicholas W. Mattise and Matthew Dahlhausen. Department of mechanical Engineering, Center for Sustainability in the Built Environment, University of Maryland.
- 18. Pathways to Fire Spread in the Wildland-Urban Interface. Raquel Hakes, Sara Caton, Kyle Kohler and Michael J. Gollner.
- 19. Understanding the Dynamics of Wildland Fire Spread: Colin Miller, Wei Tang, Daniel Gorham and Michael J. Gollner.
- 20. WIFIRE: A Scalable Data-Driven Monitoring, Dynamic Prediction and Resilience Cyberinfrastructure for Wildfires. Cong Zhang, Mickael Durand, Wei Tang, Arnaud Trouve and Michael Gollner.
- 21. Legal and Technical Issues Affecting Command and Control in Emergency Evacuations. Lei Feng, Elise Miller-Hooks and Vince Brannigan.
- 22. Urban Resiliency though Green Infrastructure. Sara Igielski, Mehrdad Mohtadi and Allen Davis. Department of Civil and Environmental Engineering, University of Maryland, College Park.