Chicago, IL
Aug 16-18, 2016

2016 Resilient Critical Infrastructure Lightning Talk Schedule & Guidelines

Lightning talks are short presentations that follow a strict format and are intended to maximize exposure of ideas. This year they will take place on Thursday, August 18!

Lightning Talk Rules:

- Each talk will consist of exactly 15 slides that are presented for exactly 30 seconds each. Thus, the total presentation length is 7.5 minutes. Talks will be launched at 10-minute intervals, leaving approximately 2.5 minutes for Q&A and transition between speakers.
- Each presentation will be loaded onto a common laptop. Use of personal laptops for presentation is not allowed.
- Each presentation will be set up so that slides automatically advance at 30-second intervals. Once the presentation begins there is no pausing or backtracking. Presenters will not have control of how their slides advance.
- If you want to use a laser pointer, please bring one.
- Slides can be in powerpoint or pdf format. Use of another format might be possible, but requires explicit approval of the RCI Chair.

Best Practices and Recommendations. Lightning talks represent a unique opportunity to tell a story about your research. Based on past experience, we strongly recommend the following:

- *DO NOT try to compress a longer talk outline into this short format.* If you try simply to talk faster and skip the details, it is unlikely your talk will be understandable to the audience.
- *DO spend time thinking about the key messages that you want to deliver*, and then organize the talk about making those points clearly and strongly.
- *You can use animation, but be careful*. If you are using powerpoint and you want to set up your slides so there is animation (e.g., a slide that builds its content automatically) during its 30-second window, that is fine. But be judicious in your use of animation. If something goes wrong in its playback, it could be disastrous. Keep it simple.
- *You can repeat a slide to increase the amount of time spent on a single idea.* Because slides advance automatically at 30-seconds, you can increase time in 30-second increments: 2 slides = 60 seconds, 3 slides = 90 seconds, etc. However, you only have a total of 15 slides, and these slides automatically advance.
- *No matter what happens during the presentation, keep going.* There are no restarts, and the clock keeps running.
- *Practice*. Try to practice at least once in front of a live audience.

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Lightning Talks will take place on Thursday August 18. They are grouped in six sessions.

(Last Revised: 03 August 2016)

8:30-9:30

Session A: Restoration/Recovery

ID	Title	Lead Author
11	A Node Split-Recovery Model for Congestion Evolution Process on Road Networks	Ukkusuri (Purdue)
20	Remote Sensing Decision Support System for Optimal Access Restoration in Post Disaster Environments	Aros-Vera (RPI/RIT)
49	Probabilistic Risk Analysis of Hurricane Impacts at Distribution Network Resolution	Backhaus (LANL)
55	Repair, Rebuild, or Replace? Protecting Aging Infrastructure From Hazards and Threats	Alderson (NPS)
35	Energy Infrastructure Interdependency Training to Enhance System Operator Situational Awareness and Improve Restoration Response	Kavicky (Argonne)

Session B: Cyber-Physical

ID	Title	Lead Author
1	Cyber Physical Regional Resilience	Stanchfield (MITRE)
40	Enhancing Power Grid Cybersecurity to Improve Critical Electric Infrastructure Resilience	Qi (Argonne)
47	Cyber-Physical Models for Critical Infrastructure Security Analysis	Weaver (UIUC)
48	ICS-CAPE : Industrial Control Systems – Cyber Attacks and their Physical Effects	M.Klett (INL)
41	Power Grid Resilience	Qui (Argonne)

9:30-10:30

Session C: Regional/Community/Human Resilience

ID	Title	Lead Author
18	Leapfrogging: Use of community sustainability initiatives to inform community resilience efforts	Schneider (RIT)
37	Human Resilience and Development in Coupled Social, Ecological, and Technical Systems: An Integral Approach to Critical Infrastructure	Thomas (ASU)
53	Critical Infrastructure Dependencies & Community Resilience	Hruska (INL)
54	The Perils of Efficiency: Impacts of an Unplanned Closure of the Soo Locks	Gordon (DHS)
27	Framework for State Energy Resilience	Phillips (Argonne)

Session D: Resilience Perspectives

ID	Title	Lead Author
43	Multi-Asset Protection and Resilience Assessment	Petit (Argonne)
45	Quantifying the resilience of infrastructure systems	Baroud (Vanderbilt)
50	Resilience and Risk: Views from 2016 NATO Workshops	Linkov (USACE)
51	Initial holistic capability for assessing resilience of space infrastructure	Aamir (Sandia)
52	Perspectives on Next Generation Critical Infrastructure	Thomas (ORNL)

11:00-12:00

Session E: Climate/Heat/Water

ID	Title	Lead Author
19	Growing Investor Awareness of Climate Risk	Coffee (CRC)
25	Climate Change and the Wastewater Sector	Finster (Argonne)
32	Toward a More Resilient Wastewater Treatment Infrastructure and Operations	Urgun-Demitras (Argonne)
36	The Vulnerability of Interdependent Urban Infrastructure Systems to Extreme Heat	Clark (ASU)
42	Climate Change and Infrastructure Adaptation	Wall (Argonne)
26	Front-Line Resilience Perspectives: The Electric Grid	Finster (Argonne)

Session F: Interdependence/Interconnectedness

ID	Title	Lead Author
10	SimDependency: A Dependency Mapping and Consequence Tool	Thompson (Argonne)
12	Interconnectedness and Interdependencies of Critical Infrastructures: Implications for Resilience in the U.S. Economy	Chopra (UI-Chicago)
14	Interdependent Critical Infrastructure (CI) Sector Analysis for the Emergency Management Mission	Flanigan (JHU/APL)
39	Strategic Solutions for High-Density and Interdependency Visualization	Edsall (INL)
46	Critical Infrastructure Dependency Analysis: DHS Infrastructure Dependencies Pilot Project	T.Klett (INL)

Questions? Contact David Alderson (dlalders@nps.edu) or Cherrie Black (cherrie.black@inl.gov).