

**PROGRAM and SPEAKERS**  
**ICNet Global Workshop**

**Engineers, Planners and Owners**  
**Working to Build Climate Resilience into Transportation Infrastructure**

**Intended Audience and Goal of the Workshop:**

The intended audience for this workshop is practitioners and owners involved in civil infrastructure engineering and planning, primarily focused on transportation and land development. The presentations and discussions are intended to spur knowledge and discussion across disciplines, practice scopes and roles, and regions.

Questions to be addressed and discussed include: Who are the important stakeholders in changing civil engineering and planning practice to consider climate resilience? What are the main elements of climate resilience you are facing in your practice? How much priority is being given to climate change and resilience in the planning and scope definition for design of public and private development in the practice you are seeing now? What are clients/owners looking for in the way of planners and engineers they hire being knowledgeable about climate science and climate resilience practice? Do they include climate resilience in RFPs and scopes of work?

**Program:**

| <b>Time</b> | <b>Tuesday May 25, 10 to 11 Eastern Time (USA)</b>  |
|-------------|---|
| 10.00       | Welcome and introductions   |
| 10.05       | Dan Walker, University of Maryland <ul style="list-style-type: none"><li>• <i>Promoting Climate Resilience through Civil Engineering Codes and Standards</i></li></ul>    |
| 10.20       | Robert Ensor, Atkins <ul style="list-style-type: none"><li>• <i>JFK The New Terminal One Climate Resilience Experience</i></li></ul>                                      |
| 10.35       | Jinwoo Lee, Korea Advanced Institute Science and Technology <ul style="list-style-type: none"><li>• <i>Infrastructure adaptation in Korea to climate change</i></li></ul> |
| 10.50       | Discussion  |

| <b>Time</b> | <b>Wednesday May 26, 10 to 11 Eastern Time (USA)</b>   |
|-------------|--|
| 10.00       | Welcome and introductions  |
| 10.05       | Jennifer Jurado, Broward County <ul style="list-style-type: none"><li>• <i>Building Resilience through Future Conditions Planning in Broward County, Florida</i></li></ul> |
| 10.20       | James Pappas, Delaware DOT <ul style="list-style-type: none"><li>• <i>Resilient Infrastructure in a Low-Lying State</i></li></ul>  |
| 10.35       | Lisa Churchill, Climate Advisory <ul style="list-style-type: none"><li>• <i>Rethinking Climate Change and Transportation</i></li></ul>                                     |
| 10.50       | Discussion   |

*ICNet is a National Science Foundation (NSF) project established to help address the challenge of climate change. The goal of this project is to create a multi-institution ICNet Global Network of Networks that unites domestic and international research and practice networks to facilitate integrated engineering, climate science, and policy research that can advance the development of resilient transportation infrastructure and systems.*

## Speakers' Bios

*Dan Walker, Associate Director for Multidisciplinary Studies, Center for Technology and Systems Management, Department of Civil and Environmental Engineering University of Maryland*

Dan Walker holds joint positions as a Senior Geologist with EA Engineering, Science, and Technology, Inc. PBC, and as the Associate Director of the U. of Maryland's Center for Technology and Systems Management. Dr. Walker has held senior positions with the National Academies of Science, Engineering and Medicine; the White House Office of Science and Technology Policy; NOAA's Climate Program Office; and the Computer Sciences Corporation. A former U.S. Delegate to the International Panel on Climate Change, Dan is a founding member of ASCE's Committee on Adaptation to a Changing Climate and currently chairs its Committee on Climate Intelligence for Codes and Standards.

*Robert Ensor, Senior Engineer, Atkins*

Mr. Robert Ensor is a senior engineer with Atkins, A member of SNC-Lavalin Group, based in Tampa, Florida. He is a civil engineer with over 40 years of diverse engineering experience in planning, design and construction of municipal and private civil infrastructure. He received his Bachelor of Engineering Technology from Southern Technical Institute in 1979. Recent work experience includes new airport terminal development programs in Jeddah, Saudi Arabia, New Orleans, Louisiana and New York's JFK New Terminal One having with total value exceeding \$8 billion USD. He is a licensed professional engineer in the State of Florida.

*Jinwoo Lee, Assistant Professor, Cho Chun Shik Graduate School of Green Transportation, Korea Advanced Institute Science & Technology*

Dr. Jinwoo Lee is an Assistant Professor in the CCS Graduate School for Green Transportation at Korea Advanced Institute of Science and Technology (KAIST). His research focuses on sustainable transportation infrastructure systems, particularly for electric and autonomous mobility technologies. He received his Ph.D. and M.S. degrees in Civil and Environmental Engineering from the University of California, Berkeley and his B.S. degree from KAIST. Before joining KAIST, he worked as a postdoctoral associate at New York University Abu Dhabi and a research assistant professor in the Department of Electrical Engineering at Hong Kong Polytechnic University.

*Jenner Jurado, Chief Resilience Officer and Deputy Director, Environmental Protection and Growth Management Department, Broward County*

Dr. Jennifer Jurado is responsible for the leading climate resilience and environmental planning initiatives for Broward County, FL with a focus on urban adaptation, sustainable resource management, and clean energy strategies. For nearly two decades she has guided the integration of science to inform resilient design standards and has led multi-jurisdictional initiatives involving public-private partnerships key to large-scale initiatives. Dr. Jurado is an original contributor to the Southeast Florida Regional Climate Change Compact and serves on the board with the American Society of Adaptation Professionals and the American Geophysical Union's Thriving Earth Exchange.

*ICNet is a National Science Foundation (NSF) project established to help address the challenge of climate change. The goal of this project is to create a multi-institution ICNet Global Network of Networks that unites domestic and international research and practice networks to facilitate integrated engineering, climate science, and policy research that can advance the development of resilient transportation infrastructure and systems.*

*James T. Pappas III, PE, Assistant Director - Office of Performance Management, Delaware Department of Transportation*

Received Bachelor of Civil Engineering from the University of Delaware and Masters in Business Administration with a concentration in Environmental Sustainability from Wilmington University. He has worked for the Delaware Department of Transportation for over 29 years. The majority of the time has been in pavement and materials engineering then as Assistant Director of Performance Management, and currently as Deputy Director of Operations and Support.

*Lisa Churchill, PG, Climate Change Expert and Founder, Climate Advisory*

Climate change expert and founder of Climate Advisory. She has 25 years of experience in the design field, working with public and private sector clients on sustainability and climate issues. She is a regular contributor to industry-leading research and invited speaker at national and international forums. Her training as a paleontologist, with a focus on mass extinctions, has given her a unique perspective on resilience. Lisa is a co-editor on an upcoming book: Climate Change and the Built Environment, to be published by ACEC this spring.

*ICNet is a National Science Foundation (NSF) project established to help address the challenge of climate change. The goal of this project is to create a multi-institution ICNet Global Network of Networks that unites domestic and international research and practice networks to facilitate integrated engineering, climate science, and policy research that can advance the development of resilient transportation infrastructure and systems.*