Advancing Practical Application of Indicators for Urban Resilience and Adaptation Planning
Session Organizers: Jordan West, Susan Julius & Mike Kolian, U.S. Environmental Protection Agency

FEATURED SPEAKERS

**Richard Moss**  
Chair, Federal Advisory Committee for the Sustained US National Climate Assessment, Columbia University  
“Lessons learned and recommended actions to improve indicator usefulness nationally”

**Rae Zimmerman**  
Research Professor and Professor Emerita of Planning and Public Administration, New York University  
“Challenges of combined indicators for cross-sectoral urban infrastructure assessments and urban social-ecological-technological sustainability”

**Julie Blue**  
Principal Climate Scientist, Eastern Research Group, Inc.  
“Applying insights from NCA4 to evaluate urban vulnerability: Indicators in EPA’s METRO tool”

**Maria Koetter**  
Director of Sustainability, Louisville Metro Government  
“Managing urban warming in Louisville, KY: Indicator uses and needs”
How can we improve practical application of physical, ecological, and socio-economic indicators as inputs to vulnerability assessment and adaptation planning tools and frameworks?
DISCUSSION QUESTIONS

• Problems that practitioners are trying to solve?
• Indicator challenges?
  • Feasibility?
  • Access to, credibility of data?
  • Scales ... ?
  • Qualitative vs quantitative?
  • Multi-sector, cascading impacts?
• Improving support?
  • How to make available assets more useful?
    • Indicator websites, shared services, dashboards, indices, other resources
    • Frameworks, e.g., USDN indicator process
  • What new assets/support are needed?
  • Potential for integrating bottom-up and top-down efforts?