

# THE NATIONAL ACADEMIES

*Advisers to the Nation on Science, Engineering, and Medicine*

## Roundtable on Science and Technology for Sustainability June 4-5, 2015

National Academy of Sciences  
2100 C Street NW  
Lecture Room  
Washington, DC

### **Thursday, June 4, 2015**

8:30 am Breakfast available

9:00 am *Welcome, Introductions and Meeting Goals*  
David Dzombak (NAE), Carnegie Mellon University, STS Roundtable Co-Chair  
Lynn Scarlett, The Nature Conservancy, STS Roundtable Co-Chair  
Jerry Miller, National Research Council

9:30 am *Keynote Remarks*  
Andrew J. Hoffman, University of Michigan (Sustainability Metrics, Sustainable Enterprise, and Climate Change)

### **Measuring Progress towards Sustainability: The State of the Science on Indicators and Metrics of Sustainability: Climate Change and Infrastructure Vulnerability**

10:00 am *Overview and Introduction to Panel*  
David Dzombak (NAE)/Lynn Scarlett, STS Roundtable Co-Chairs

10:10 am *Panel I: Sustainability Indicators and Metrics: Overview of Current State of the Science*  
Moderator: Lynn Scarlett, The Nature Conservancy

- Lidia Berger, Dewberry (Connectedness and Infrastructure: Key Sustainability Challenges)
- Ralph Sims, Massey University, New Zealand (Cities and Infrastructure Indicators)

10:50 am BREAK

11:10 am *Panel I: Continued*

- Satyajit Bose, Columbia University (Sustainability Management)

11:30 am Q&A and Discussion

12:00 pm LUNCH

1:00 pm *Panel II: Examples of Innovative Public Sector Sustainability Indicators and Metrics*  
Moderator: Suzette Kimball, U.S. Geological Survey

- Michael Slimak, U.S. Environmental Protection Agency (EPA's Report on the Environment)
- Joe D. Manous, U.S. Army Corps of Engineers (Sustainability Metrics related to Water Resources and Climate Change Adaptation)

- Melissa Kenney, University of Maryland (Multidisciplinary Climate Change and Impact Indicators Input to USGCRP)

2:00 pm Q&A and Discussion

2:20 pm BREAK

2:40 pm *Panel III: Examples of Innovative Private/NGO Sustainability Indicators and Metrics*  
Moderator: Marilu Hastings, Cynthia and George Mitchell Foundation

- Matthew Swibel, Lockheed Martin Corporation (Metrics-Driven Sustainability Decision-Making)
- David Dornfeld (NAE), University of California, Berkeley (Green Manufacturing and Social Sustainability Metrics, including Climate-related Metrics)
- David Allen, University of Texas (Sustainable Chemistry and Engineering)

3:40 pm Q&A and Discussion

4:00 pm BREAK

4:10 pm *Discussion and Next Steps on the Use and Development of Sustainability Indicators and Metrics*

Moderator: David Dzombak (NAE), STS Roundtable Co-Chair

4:50 pm **Wrap up and plans for next day** (STS Roundtable Co-Chair)

5:00 pm **Adjourn**