

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

**Roundtable on Science and Technology for Sustainability
November 12-13, 2015**

National Academy of Sciences
Lecture Room
2101 Constitution Ave NW
Washington, DC

Thursday, November 12, 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 Academies of Sciences, Engineering, and Medicine

Measuring Progress towards Sustainability: Social and Economic Indicators and Metrics for Urban Sustainability

9:15 am *Introduction to Panel*
David Dzombak (NAE)/Lynn Scarlett, STS Roundtable Co-Chairs

9:25 am *Keynote Remarks*
Heather Tallis, The Nature Conservancy (Rethinking Sustainability Indicators: Evidence from the Globe to the Ground)

10:00 am BREAK

10:15 am **Panel I: Overview of Social and Economic Indicators and Metrics: Characterizing the Issue**
Moderator: Steve Bergman, Shell International Exploration & Production Company

- Diane Pataki, University of Utah (Urban Ecological Indicators)
- Charles Redman, Arizona State University (Models for Supporting Sustainability Decision Making)
- Robin Morris Collin, Willamette University College of Law (Social Equity and Urban Sustainability)

11:15 am Q&A and Discussion

11:45 am LUNCH

12:45 pm	Panel II: Examples of Innovative Public Sector Sustainability Indicators and Metrics Moderator: Richard Spinrad, National Oceanic and Atmospheric Administration <ul style="list-style-type: none"> • Duane Verner, Argonne National Laboratory (Using Climate Data to Inform Critical Infrastructure Resilience and Urban Sustainability Decision-Making) • Gerardo J. Ruiz-Mercado, U.S. Environmental Protection Agency (Sustainability Indicators for Chemical Processes) • Michael Culp, Federal Highway Administration (Sustainability Indicators for Transportation)
1:45 pm	Q&A and Discussion
2:15 pm	BREAK
2:30 pm	Panel III: Examples of Innovative Private/NGO Sustainability Indicators and Metrics Moderator: Lynn Scarlett, The Nature Conservancy <ul style="list-style-type: none"> • Matthew Mehalik, Sustainable Pittsburgh (Sustainable Pittsburgh) • Fiona Cousins, Arup (Sustainability Performance and Metrics) • Nancy Kete, Rockefeller Foundation (City Resilience Index) • Maureen Hart, International Society of Sustainability Professionals (Measuring Sustainability for Communities)
3:50 pm	Q&A and Discussion
4:20 pm	<i>Discussion and Next Steps</i> Moderator(s): David Dzombak (NAE)/Lynn Scarlett, STS Roundtable Co-Chairs
4:50 pm	Wrap up and plans for next day (STS Roundtable Co-Chair)
5:00 pm	Adjourn