

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

Roundtable on Science and Technology for Sustainability
July 26-27, 2016

Keck Center of the National Academies of
Sciences, Engineering, and Medicine
500 Fifth Street NW
Washington, DC

Meeting Objective: To lay out a viable and productive work plan for the National Academies of Sciences, Engineering, and Medicine's Science and Technology for Sustainability Program for the next three to five years using information developed during the June and November 2015 Roundtable workshops and the January 2016 workshop in Newport Beach.

Tuesday, July 26 (Keck 100)

- 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
- 9:15 am **Roundtable History, Accomplishments, and Vision for the Future**
David Dzombak (NAE), Lynn Scarlett, and Jerry Miller
- 9:30 am **Discussion of Roundtable Vision**
- 10:15 am BREAK

Session I: Harvesting Priorities from 2015 Roundtable Sessions on Sustainability Indicators and Metrics

- 10:30 am **Topic 1: Measuring Progress towards Sustainability: Indicators and Metrics for Climate Change and Infrastructure Vulnerability**
(June 2015 Roundtable Session)
Lynn Scarlett, Nature Conservancy, STS Roundtable Co-Chair
- 10:45 am Roundtable Discussion of Lessons Learned and Possible Follow-up Activities
- 11:15 am **Topic 2: Measuring Progress towards Sustainability: Social and Economic Indicators and Metrics for Urban Sustainability**
(November 2015 Roundtable Session)
Steve Bergman, Shell International Exploration & Production Company
- 11:30 am Roundtable Discussion of Lessons Learned and Possible Follow-up Activities
- 12:00 pm LUNCH

Session II: Harvesting Priorities from January 2016 Workshop on Sustainability Science and Metrics

- 1:00 pm **Transition toward Sustainability after 15 Years: Where Do We Stand in Advancing the Scientific Foundation? (Workshop held January 14-15, 2016)**
David Dzombak (NAE), Carnegie Mellon University, STS Roundtable Co-Chair
- 1:15 pm **Topic 3: Decision Sciences and Demography** (See Chapter 2: Decision Sciences, Demography, and Integrated Assessment Modelling, pages 7-16)
Suzette Kimball, U.S. Geological Survey
- 1:30 pm Roundtable Discussion of Lessons Learned and Possible Follow-up Activities
- 2:00 pm **Topic 4: Integrated Assessment Modelling** (See Chapter 2: Integrated Analysis section, pages 16-21)
Michael Webber, University of Texas at Austin
- 2:15 pm Roundtable Discussion of Lessons Learned and Possible Follow-up Activities
- 2:45 pm BREAK
- 3:00 pm **Topic 5: Urban Systems** (See Chapter 3: Urban Systems)
Paulo Ferrao, University of Lisbon
- 3:15 pm Roundtable Discussion of Lessons Learned and Possible Follow-up Activities
- 3:45 pm **Topic 6: Ocean Sustainability** (See Chapter 6: Ocean Sustainability)
Richard Spinrad, National Oceanic and Atmospheric Administration
- 4:00 pm Roundtable Discussion of Lessons Learned and Possible Follow-up Activities
- 4:30 pm **Strategic Planning for Future Roundtable Activities**
All Members
- 4:55 pm **Wrap Up and Plans for Next Day**
David Dzombak (NAE)/Lynn Scarlett, STS Roundtable Co-Chairs
- 5:00 pm **Adjourn**
- 5:15 pm **Reception** (Acadiana Restaurant Lake Room, 901 New York Ave NW, Washington, DC)
- 6:00 pm **Working Dinner** (Acadiana Restaurant Lake Room)
Speaker: Marcia McNutt (NAS), National Academy of Sciences

Wednesday, July 27 (Keck 101)

- 8:30 am Breakfast available
- 9:00 am **Welcome and Feedback from Previous Day**
David Dzombak (NAE)/Lynn Scarlett, STS Roundtable Co-Chairs

Session II: Harvesting Priorities from January 2016 Workshop on Sustainability Science and Metrics (cont.)

- 9:10 am **Topic 7: Sustainable Manufacturing** (See Chapter 4: Sustainable Manufacturing)
Michael Kavanaugh, Geosyntec Consultant
- 9:25 am Roundtable Discussion of Lessons Learned and Possible Follow-up Activities
- 9:55 am **Topic 8: Sustainable Food Systems** (See Chapter 5: Sustainable Food Systems)
Ann Bartuska, U.S. Department of Agriculture
- 10:10 am Roundtable Discussion of Lessons Learned and Possible Follow-up Activities
- 10:40 am BREAK
- 11:00 am **Strategic Planning for Future Roundtable Activities**
All Members

Session III: Current Activities

- 11:40 am **Pathways to Urban Sustainability: Challenges and Opportunities** (Consensus report
expected in 2016)
Paulo Ferrão, University of Lisbon
- 11:45 am **Housing, Health and Homelessness: Evaluating the Evidence** (Consensus report
expected in 2017)
Michael Dorsey, National Academies of Sciences, Engineering, and Medicine
- 11:50 am **STS Program and Publication Updates**
Jerry Miller, National Academies of Sciences, Engineering, and Medicine
- 12:00 pm **Wrap up**
David Dzombak (NAE)/Lynn Scarlett, STS Roundtable Co-Chairs
- 12:15 pm **Adjourn**