Workshop Agenda

MODELING CLIMATE CHANGE IMPACTS AND ASSOCIATED ECONOMIC DAMAGES

November 18, 2010

Workshop Introduction

8:30 – 8:35  Welcome and Introductions
Elizabeth Kopits, U.S. Environmental Protection Agency

8:35 – 9:00  Opening Remarks
Bob Perciasepe, Deputy Administrator, U.S. Environmental Protection Agency
Steve Koonin, Under Secretary for Science, U.S. Department of Energy

9:00 – 9:25  Progress Toward a Social Cost of Carbon
Michael Greenstone, Massachusetts Institute of Technology

Session 1: Overview of Existing Integrated Assessment Models
Moderator: Stephanie Waldhoff, U.S. Environmental Protection Agency

9:25 – 9:50  Overview of Integrated Assessment Models
Jae Edmonds, Pacific Northwest National Laboratory

Models Used for the Development of Current USG SCC Values

9:50–10:15  DICE
Steve Newbold, U.S. Environmental Protection Agency

10:15–10:40  PAGE
Christopher Hope, University of Cambridge

10:40–10:55  Break

10:55–11:20  FUND
David Anthoff, University of California, Berkeley

Representation of Climate Impacts in other Integrated Assessment Models

11:20–11:45  GCAM (JGCRI – UMD/PNNL) and Development of iESM (PNNL/LBNL/ORNL)
Leon Clarke, Pacific Northwest National Laboratory
11:45–12:10  *IGSM* (MIT)
John Reilly, Massachusetts Institute of Technology

12:10–12:40  Discussion

12:40 – 1:40  Lunch (on your own; a list of nearby restaurants is provided in the registration packets)

---

**Session 2: Near-Term DOE and EPA Efforts**
Moderator: Ann Wolverton, U.S. Environmental Protection Agency

1:40 – 2:00  *Proposed Impacts Knowledge Platform*
Bob Kopp, U.S. Department of Energy
Nisha Krishnan, Resources for the Future

2:00 – 2:20  *Proposed Generalized Modeling Framework*
Alex Marten, U.S. Environmental Protection Agency

2:20 – 2:40  Discussion

---

**Session 3A: Critical Modeling Issues in Assessment and Valuation of Climate Change Impacts**
Moderator: Ann Wolverton, U.S. Environmental Protection Agency

2:40 – 3:10  *Sectoral and Regional Disaggregation and Interactions*
Ian Sue Wing, Boston University

3:10–3:20  *Break*

3:20–3:50  *Adaptation and Technological Change*
Ian Sue Wing, Boston University

3:50–4:20  *Multi-century Scenario Development and Socio-Economic Uncertainty*
Brian O’Neill, National Center for Atmospheric Research

4:20–5:00  Discussion
November 19, 2010

Day 2 Introduction

8:30–8:40  Welcome; Recap of Day 1; Overview of Day 2
Elizabeth Kopits, U.S. Environmental Protection Agency

Session 3B: Critical Modeling Issues in Assessment and Valuation of Climate Change Impacts (cont.)
Moderator: Bob Kopp, U.S. Department of Energy

8:40–9:10  Incorporation of Climate System Uncertainty into IAMs
Gerard Roe, University of Washington

9:10–9:40  Extrapolation of Damage Estimates to High Temperatures: Damage Function Shapes
Marty Weitzman, Harvard University

9:40–10:10  Earth System Tipping Points
Tim Lenton, University of East Anglia

10:10–10:30  Break

10:30–11:00  Potential Economic Catastrophes
Michael Toman, World Bank

11:00–11:30  Nonmarket Impacts
Michael Hanemann, University of California, Berkeley

11:30–12:30  Discussion

12:30–1:30  Lunch (on your own; a list of nearby restaurants is provided in the registration packets)

Session 4: Implications for Climate Policy Analysis and Design
Moderator: Charles Griffiths, U.S. Environmental Protection Agency

1:30–2:00  Implications for Design and Benefit-Cost Analysis of Emission Reduction Policies
Ray Kopp, Resources for the Future
2:00–2:30  *Implications for Addressing Equity and Natural Capital Impacts*  
Geoff Heal, Columbia University

2:30–3:00  *Implications for Choice of Policy Targets for Cost-Effectiveness Analysis*  
Nat Keohane, Environmental Defense Fund

3:00–3:10  *Break*

3:10–3:40  *Implications for Managing Climate Risks*  
Roger Cooke, Resources for the Future

3:40–4:15  *Discussion*

---

**Session 5: Workshop Wrap-up**

4:15–4:30  *Summary Comments by U.S. Department of Energy*  
Rick Duke, Deputy Assistant Secretary for Climate Policy

4:30–4:45  *Summary Comments by U.S. Environmental Protection Agency*  
Al McGartland, Director of the National Center for Environmental Economics