

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
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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**
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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