

July 23 – August 3, 2012
Snowmass, Colorado
Presentations*

*Please note that some participants only gave verbal presentations, without powerpoint.

Monday, July 23

Morning:

Welcome & Introduction

- **John Weyant, Stanford University** (68.7KB)
Overview of Spatial Land Use in Integrated Assessment Models:
- **Brian O'Neill, NCAR** (1.4KB)
REV-GLOBIOM Model
- **Petr Havlik, IIASA** (6.0KB)
GCAM-Model
- **Kate Calvin, PNNL** (6.5KB)
Agent Based Modeling of Land Use Change
- **Dan Brown, University of Michigan** (4.1KB)
Generalizing Agent Based Models of Land Use Change
- **Steve Manson, University of Minnesota** (6.2KB)

Afternoon:

Deforestation Econometric Approaches

- **Alex Pfaff, Duke University** (1.3KB)
Incorporating land markets in agent-based models
- **Dawn Parker, University of Waterloo** (5.0KB)
Modeling land and water use in agriculture at the river basin level
- **Tom Hertel, Purdue University** (3.7KB)
Land use/land cover typologies & nested modeling approaches for use in IA modeling
- **Peter Verburg, Vrije University** (26.1KB)

Tuesday, July 24

Morning:

Biophysical effects of land use change on climate

- **Peter Lawrence, NCAR** (4.3KB)

Land use, carbon and water in the integrated Earth System Model (iESM)

- **Bill Collins, U.C. Berkeley** (4.5KB)
Land use, biogeochemistry, and climate
- **Atul Jain, University of Illinois, Champaign-Urbana** (1.3KB)
Data availability and constraints for modeling land & water use
- **Tom Hertel, Purdue University** (5.1KB)

Afternoon:

Land Data Differences panel

- **Johan Feddema, University of Kansas** (2.6KB)
Land Use & Biophysical Carbon Cycling panel
- **Derek Robinson, University of Waterloo** (262.1KB)
Final discussion on spatial land use in IAM's
- **Brian O'Neill, NCAR** (39.5KB)

Wednesday, July 25

Morning:

Overview on Shared Socio-economic Pathways (SSP's)

- **Brian O'Neill, NCAR** (961.6KB)
IAM Overview
- **Detlef van Vuuren, PBL** (1.6KB)
Scenarios from ReMIND-MagPIE group
- **Elmar Kriegler, PIK-Potsdam** (3.1KB)
GCAM scenarios based on SSP Elements
- **Jae Edmonds, PNNL** (1.7KB)
Scenarios from AIM Group
- **Shinichiro Fujimori, NIES** (2.1KB)
Scenario work from IMAGE
- **Detlef van Vuuren, PBL** (1018.2KB)

Afternoon:

Measuring the challenges to mitigation & adaptation

- **Jae Edmonds, PNNL** (1.0KB)
Priority needs for IAV Researchers & Decision Makers

- **Marc Levy, Columbia University** (2.0KB)
Income Distribution in Large Scale Models
- **Bas van Ruijven, NCAR** (995.7KB)
Projecting Income Distribution
- **Erik Kemp-Benedict, Stockholm Environment Institute** (1.5KB)
Improved Method for Projecting Spatial Population
- **Bryan Jones, NCAR** (6.4KB)

Thursday, July 26

Morning:

Radiative Forcing Overview

- **Phil Rasch, PNNL** (19.6KB)
Introduction to IAM's
- **John Weyant, Stanford University** (2.8KB)
IAM forcing modeling overview
- Steven Rose, EPRI

Afternoon:

What do we know about Emissions?

- **Steven J. Smith, PNNL** (7.1KB)
Key uncertainties in future non-Kyoto emissions (inventories, observations, processes)
- **Steven J. Smith, PNNL** (85.4KB)
Key uncertainties in historic non-Kyoto emissions
- **Zig Klimont, IIASA** (5.6KB)
Air pollution policy formation
- **Kevin Culligan, U.S. EPA** (213.1KB)

Friday, July 27

Morning:

Aerosol forcings and non-linear climate response

- **Mark Flanner, University of Michigan** (6.1KB)
Radiative Aerosol Indirect Effects overview
- **Phil Rasch, PNNL Phil Rasch, PNNL** (6.0KB)
Ozone and Chemistry

- **Jean-Francois Lamarque, NCAR** (10.3KB)
Co-Benefits of Global Greenhouse Mitigation
 - **Jason West, University of North Carolina** (699.7KB)
Aerosol Particles: The Big Picture
 - **Bill Collins, U.C. Berkeley** (7.2KB)
- Afternoon:
- IAM modelers: questions for the science community
 - **Discussion: IAM Modelers' Questions, Challenges, and Priorities** (80.6KB)

Monday, July 30

Morning:

- Introduction, Motivation, and Background on MUG
- **Bill Nordhaus, Yale University** (1.8KB)
MUG Round 1 Scenarios in MERGE
- **Geoff Blanford, EPRI** (1.8KB)
MUG results from Page09 Model
- **Chris Hope, University of Cambridge** (1.8KB)
Uncertainty and Sensitivity Analyses in Integrated Assessments
- **Klaus Keller, Penn State University** (1.5KB)
MUG-WITCH
- **Massimo Tavoni, FEEM** (637.3KB)
Sensitivity and Uncertainty Analysis with FUND
- **Richard Tol, University of Sussex** (467.4KB)

Afternoon:

- Uncertainty Analysis Panel: MUG Issues and Questions
- **John Weyant, Stanford University** (36.5KB)
MUG-RICE model runs
- **Bill Nordhaus, Yale University** (494.7KB)
MUG: A Sensitivity Experiment with GCAM
- **Leon Clarke, PNNL** (4.0KB)
MUG-Phoenix
- **Kathryn Daenzer, Penn State University** (449.5KB)
MUG MIT-IGSM

- **John Reilly, MIT** (3.6KB)
Uncertainty Analysis Panel in IAM's: Next Steps
- **Ken Gillingham, Yale University** (59.2KB)

Tuesday, July 31

Morning:

- TEaM Overview
- Valentina Bosetti, FEEM and Erin Baker, UMass at Amherst | **Bosetti Bosetti** (1.0KB)|
Expert Elicitations: Introduction to Megajoule
- **Max Henrion, Lumina Decision Systems** (2.3KB)
Meta Analysis of Elicitation Results
- Gregory Nemet, University of Wisconsin and Elena Verdolini, FEEM
|**Nemet Nemet** (2.1KB)|
Harmonization and Aggregation
- **Max Henrion, Lumina Decision Systems** (1020.9KB)
Uncertainty Analysis and Expert Elicitation: Comments
- **Detlof von Winterfeldt, USC** (931.6KB)

Afternoon:

- WITCH Model:
- Valentina Bosetti, FEEM
Markal Model:
- Chip Friley, Brookhaven National Laboratory
GCAM Model:
- Haewon McJeon, PNNL and Leon Clarke, PNNL
Overview of Comparison Exercise
- Max Henrion, Lumina Decision Systems
Discussant
- John Weyant, Stanford University

Wednesday, August 1

Morning:

Overview of Decision Analysis Framework

- Erin Baker, UMass at Amherst and Valentina Bosetti, FEEM
Decision Analysis Framework from Umass Study
- **Erin Baker, UMass at Amherst** (891.5KB)
Decision Analysis Framework from Harvard study
- **Gabe Chan, Harvard University** (980.5KB)
Approximate Dynamic programming application to WITCH
- **Gauthier de Maere, FEEM-CMCC** (680.8KB)
GCAM Application
- **Haewon McJeon, PNNL** (4.9KB)
Discussant:
- Robert Lempert, Rand Corporation
Afternoon:
- Opening Comments on Institutions in Mosaic World
- John Weyant, Stanford University
Introduction: Scene set and Overview Past Sessions
- Brian Flannery, Retired
New Institutionalism: Implications for Climate & Climate Policy Analysis
- **Lee Lane, Hudson Institute** (254.4KB)
Opening Comments on Investment in major facilities and infrastructure
- Brian Flannery, Retired
Power Sector Investments and Linkages: OECD
- John Parsons, MIT
Power Sector Investments and Linkages: Developing World
- **David Victor, U.C. San Diego** (1023.8KB)

Thursday, August 2

Morning:

- Opening Remarks
- John Weyant, Stanford University
Scene Set & Modeling Water in IAM's #1
- **Ken Strzepek #1, MIT** (2.0KB)
Scene Set & Modeling Water in IAM's #2
- **Ken Strzepek #2, MIT** (1.8KB)

Institutional Issues in Global Water Management: Case study of Africa

- **Ruhiza Boroto, FAO** (6.8KB)
Institutional issues in North American water management: Can we model them?
- **Paul Flack, University of Colorado** (55.9KB)
GAP-Water
- Richard Tol, University of Sussex
Water in GCAM
- **Jae Edmonds, PNNL** (4.2KB)

Afternoon:

New Institutional Economics perspective on adaptation (paper by Oliver Williamson)

- **Lee Lane, Hudson Institute** (301.6KB)
Enablers and impediments to adaptation
- **Rob Mendelsohn, Yale University** (728.3KB)
Links in requirements for economic growth and adaptation
- **David Montgomery, NERA** (313.1KB)

Friday, August 3

Morning:

Opening Remarks

- John Weyant, Stanford University
Scene Set
- **Brian Flannery, Retired** (4.4KB)
Trade and climate change: existing issues and tensions
- **Niven Winchester, MIT** (866.5KB)
Stabilizing GHG concentrations: implications for trade and competitiveness
- **Brian Fisher, BAEconomics** (89.9KB)
Implications for IPCC Assessment and Scenarios
- Kristie Ebi, Stanford University
Industry Perspective
- Haroon Kheshgi, ExxonMobil
Rules or Markets and how to represent them

- John Weyant, Stanford University
Future Directions: Modeling real world, non-optimal policies

- Jae Edmonds, PNNL

Afternoon:

Overview of Modeling RETs in IAMs

- **Doug Arent, JISEA/NREL (96.7KB)**
Resource Supply Curves & Initial IAM Results
- **Leon Clarke, PNNL (16.1KB)**
- Patrick Sullivan, NREL
Global Atlas for Solar & Wind Energy
- **Carsten Hoyer-Klick, German Aerospace Center (1.1KB)**
- **David Renne, NREL (2.2KB)**
Renewable Electricity in Computable General Equilibrium Models
- **Niven Winchester, MIT (2.8KB)**
- **Patrick Sullivan, NREL (3.8KB)**
- **Chip Friley, Brookhaven National Laboratory (902.8KB)**
High Renewable Energy Scenarios: Global Energy Assessment
- **Nebojsa Nakicenovic, Vienna University of Technology (8.6KB)**
- **Nate Blair, NREL (6.5KB)**