

FORESTRY AND AGRICULTURE GREENHOUSE GAS MODELING FORUM

Workshop #1: Oct 1- 3, 2001 Shepherdstown, WV

Program Agenda

Arrival: Sunday, September 30

5:00-6:30 pm Registration (Entry Auditorium)
6:30-8:00 pm ***Dinner (Commons Dining Hall)***
8:00-9:30 pm *Reception with dessert and coffee (Roosevelt Room)*

Day 1: Monday, October 1

Registration and all sessions in Instructional West Building 160

8:00 - 9:00 Registration (Instructional West Building 160) / *Breakfast (Commons Dining Hall)*

9:00 am **OPENING SESSION**

Welcome and Statement of Forum Goals

Dina Kruger, *US EPA* and Carol Jones, *USDA/Economic Research Service*

Synthesis of Pre-workshop Common Modeling Scenarios/Breakout Group Objectives

Brian Murray, *Research Triangle Institute*

10:10 am *Break*

10:30 am

GLOBAL, TOP-DOWN COMPUTABLE GENERAL EQUILIBRIUM (CGE) MODELS

Chair: Francisco de la Chesnaye, *US EPA*

John Reilly, *MIT*. EPPA model

Ronald Sands, *Pacific Northwest Laboratory*. SGM model.

12:00 pm ***Lunch (Commons Dining Hall)***

1:00 pm **AGRICULTURE: NATIONAL ECONOMIC MODELS REPORTING EMISSION MITIGATION RESULTS**

Chair: Carol Jones, *USDA Economic Research Service*

USMP model, linked presentations by:

- (a) Mark Peters, Jan Lewandrowski, Bob House, *USDA Economic Research Service*. IPCC C with pricing
- (b) Suzie Greenhalgh, *World Resources Institute*. EPIC C and N2O.

Bruce McCarl, *Texas A&M*, Uwe Schneider, *Iowa State*. ASMGHG model with links to EPIC (C) and IPCC (N2O and CH4) models.

2:40 pm ***Break***

3:00 pm **AGRICULTURE BIOPHYSICAL MODELING**

Chair: Mike Jawson, *ARS/USDA*

Carbon sequestration

Keith Paustian, *NREL/Colorado State University*. Comparing national level (BAU) carbon sequestration results for IPCC vs Century methods.

Contributors/Discussants

Cesar Izaurralde, *Pacific Northwest National Laboratory*. EPIC model

Brian McConkey, *Agriculture Canada*. Prairie soil carbon balance project

Nitrous oxide

Arvin Mosier, *Agricultural Research Service, USDA*. Strengths and weaknesses of IPCC N2O approach, potential for process-model based approaches

Ray Desjardins, *Agriculture Canada*. IPCC N2O approach, potential for process models

5:30 pm Day 1 Conclusion

6:30 pm ***Dinner (Commons Dining Hall)***

7:30 pm **Coffee and Dessert in the Roosevelt Room - Policy Panel**

Day 2: Tuesday, October 2

All sessions in Instructional West Building 160

7:30 am **Breakfast** (Commons Dining Hall) / **Break-out groups meeting opportunity**

8:30 am **AGRICULTURAL ECONOMICS PANEL: WHAT CAN WE LEARN FROM OTHER ECONOMIC MODELING EFFORTS? HOW CAN WE BETTER INTEGRATE BIO-PHYSICAL MODELS ?**
Chair: Bruce McCarl, Texas A&M

Panelists from each of the following research teams

- Susan Capalbo, Sian Mooney, *Montana State*
- Cathy Kling, Luba Kurkalova, *Iowa State*
- Bruce Junkins, S.N. Kulshreshtha and Marie Boehm, *Agriculture Canada*

9:45 am **Break**

10:00 am **FORESTRY AND LAND USE CHANGE: NATIONAL ECONOMIC MODELS REPORTING EMISSION MITIGATION RESULTS**

Chair: Francisco de la Chesnaye, US EPA

Bruce McCarl, *Texas A&M*, Ralph Alig, *USDA Forest Service*, Brian Murray, *Research Triangle Institute*.
Estimation of Economic Opportunities from Forests and Land Use Change using the FASOM model

Discussant: Steve McNulty

11:00 am **ECONOMICS PANEL. LAND USE CHANGE: ECONOMETRIC AND OPTIMIZATION APPROACHES**
Chair: Ralph Alig, USDA Forest Service

Panelists from each of the following research teams

- Peter Parks, *Rutgers* and Ian Hardie, *Maryland*.
- Greg Amacher, *Virginia Tech*.
- Andrew Plantinga, *Oregon State*, Ruben Lubowski, *Harvard*.

12:15 pm **Lunch** (Commons Dining Hall)

1:15 pm **FORESTRY BIOPHYSICAL INVENTORY AND LINKED ECONOMIC MODELING**
Chair: Steve McNulty, USDA Forest Service

Richard Birdsey, Linda Heath, Ken Skog, *USDA Forest Service*. USFS national carbon modeling system: FORCARB, WOODCARB, tied to TAMM/ATLAS/NAPAP.

Tony Lempriere, Michael Apps, Werner Kurz, and Ed Banfield, *Canadian Forest Service*: Aggregate forest carbon sequestration results for Canada

Discussant: Roger Sedjo, Resources for the Future

2:45 pm **Break**

3:15 pm **GLOBAL FOREST SECTOR MODELING**

Chair: Jan Lewandrowski, ERS

Brent Sohngen, *Ohio State* and Roger Sedjo, *Resources for the Future*. Global Timber Model.
Janaki Alavalapati, *U. Florida*. Global Timber Model with Links to other Sectors.

Discussant: Ron Sands, PNNL

4:30 pm **INTERNATIONAL/DEVELOPING COUNTRY FOREST AND AGRICULTURE MODELS**
Chair: Ken Andrasko, US EPA

Jayant Sathaye, *Lawrence Berkeley National Lab*
Ken Chomitz, *World Bank*

5:30 pm **Day 2 Conclusion**

6:30 pm **Dinner** (Commons Dining Hall)

7:30 pm **Coffee and Dessert in the Roosevelt Room - Breakout group opportunity**

Day 3: Wednesday Oct 3

All sessions in Instructional West Building 160

8:00 am **Breakfast** (*Commons Dining Hall*) / **Break-out groups meetings**

9:00 am **BREAKOUT GROUP REPORTS AND DISCUSSION**
Chair: Brian Murray, Research Triangle Institute

Breakout group leaders will report on key modeling issues raised by work group

10:00 am **FUTURE DIRECTIONS OF FORUM**
Open discussion

- Goals for next year, future years
- Assessment of current format/suggested alternatives
- Mechanisms for ongoing dialogue
 - ✓ Working groups
 - ✓ Communications/web site

Formal Conclusion of Workshop

11:00 - **Study groups meet**

whenever
pm

[Box lunch available for individuals departing on 11am shuttle or by car]

12:00 pm **Lunch**

(Study groups may continue meeting after lunch)
