

FORESTRY & AGRICULTURE GREENHOUSE GAS MODELING FORUM

Organized by USEPA, USDA/ERS, the Farm Foundation, and Agriculture Canada

Agenda for Workshop #2: GHG Mitigation. Oct 8 -11, 2002, National Conservation Training Center

Arrival: Tuesday, October 8

5:00-6:30 pm **Registration (Lobby of Entry Auditorium)**

6:30 - 8:00 pm **Dinner (Commons Dining Hall) & Reception (Commons Lounge)**

Day 1: Wednesday, October 9 (Workshop in Instructional West Building 160)

6:30 - 8:30 am **Breakfast (Commons Dining Hall)**

8:30 am **Registration (Instructional West Building 160)**

9:00 am **Welcome and Workshop Overview**

- Dina Kruger, USEPA, Carol Jones, ERS/USDA, & Robert MacGregor, Agriculture Canada

9:30 am **Policy Landscape**

Chair: Carol Jones

- Jean-Mari Peltier, Counselor to the Administrator on Agriculture Policy, USEPA

10:00 am **Break**

10:20 am **Policy Landscape - continued**

- William Hohenstein, Director, Global Change Program Office, USDA

- Robert MacGregor, Chief, Agriculture and Env Policy Analysis, Agriculture Canada

11:00 am **Insights from Policy & Project-Level Research**

Chair: Ken Andrasko, USEPA

- Sian Mooney, Montana State Univ., "Soil Carbon Measurement Costs, Protocols, and Sequestration Rates Using a Linked Economic and Biophysical Simulation Model"

- Tristram West, ORNL, "Soil Carbon Sequestration Accounting: Comparison of Options to Measure, Monitor and Address Project-Level Issues"

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

1:00 pm **Insights from Policy & Project-Level Research - continued**

- Judith Hull, Climate Change Secretariat, Canada, & Tony Lempriere, Canadian Forest Service, "Implementation Issues for Developing an Offsets Trading Market for Agriculture and Forestry: The Link to a Canadian Domestic Emission Trading System"

- Brian Murray, RTI, "County-Level vs. Sub-County-Level Econometric and Georeferenced Approaches to Estimating Baselines and GHG Additionality for Afforestation of Mississippi Croplands"

- Discussant: John Horowitz, Univ of Maryland

- Group discussion

2:30 pm **Break**

3:00 pm **Modeling non-GHG Environmental Co-Effects**

Chair: Don Johnson, Colorado State Univ

- Bruce Junkins, Agriculture Canada, "Employing Regional Economic and Agri-Environmental Indicator Models to Quantify Environmental Co-benefits from Mitigation Strategies"

- Catherine Kling, Iowa State Univ, "Multiple Environmental Benefits from Practices that Sequester Carbon: Conservation Tillage in Iowa"

- Subhrendu K. Pattanayak, RTI, "Water Quality Co-Benefits of Greenhouse Gas Reduction Incentives in Agriculture and Forestry"

- Andrew J. Plantinga, Oregon State, "Modeling the Impacts of Forest Carbon Sequestration on Biodiversity"

- Robert C. Johansson, USDA/ERS " New Conservation Initiatives in the 2002 Farm Bill: Targeting Multiple Environmental Goals"

- Discussant: Paul Thomassin, McGill University

- Group discussion

6:00 pm **Day 1 Conclusion**

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

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Day 2: Thursday, October 10

6:30 - 8:30 am **Breakfast (Commons Dining Hall)**

8:30 am **National Level Estimates of GHG Mitigation Under Alternative Policy Scenarios**

Chair and Overview Presentation: Brian Murray, RTI

- Carol Jones, USDA/ERS, "Assessing the Economic Potential of U.S. Agriculture to Sequester Carbon"
- Suzie Greenhalgh, WRI, "Agricultural strategies to reduce hypoxia in the Gulf of Mexico: Impacts on climate change and water quality"

10:00 am **Break**

- 10:30 am
- Robert Flick, Agriculture/Agri-Food Canada, "An Economic Assessment of GHG Mitigation Strategies for Canadian Agriculture: Role of market mechanisms for soil sinks"
 - Ruben Lubowski, Harvard Univ., "Econometrically based land allocation model for estimating a national carbon supply function"
 - Bruce McCarl, Texas A&M Univ., "Assessment of GHG Mitigation Opportunities in the U.S. Forest and Agricultural Sectors using FASOM-GHG"

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

- 1:00 pm
- Discussant: Jim Hrubovcak, USDA
 - Group discussion

1:30 pm **Soils Biophysical Modeling**

Chair: Bruce McCarl, Texas A&M Univ

- Phil Gassman, Iowa State, Using EPIC to do a regional appraisal of GHG mitigation- New features and IEPIC
- Bill Parton, Colorado State, "Using Century to support GHG analyses - DAYCENT and the National Economic Experiment"

2:30 pm **Break**

- 3:00 pm
- Tony Brierley & Gary Patterson, Agriculture Canada, "Scaling-up Estimates for GHG sinks and emissions for Canadian Agriculture: Part of National Inventory Process"
 - Discussant: John Kimble, NRCS/USDA
 - Group discussion

4:00 pm **Incorporating Sectoral Results Into Climate Economic Models**

Chair: Francisco de la Chesnaye, USEPA

- Ronald Sands, Pacific Northwest Laboratory, "Application of the Ag/Landuse model in SGM and MiniCam models"
- Janaki Alavalapati, UF, Roger Sedjo, RFF, Grace Wong & Brent Sohngen, Ohio State, "Integrating forest sector models that investigate GHGs with computable general equilibrium models: some preliminary results"

5:00 pm **Day 2 Conclusion**

5:30 - 7:30 pm **Dinner (Commons Dining Hall)**

Day 3: Friday, October 11

6:30 - 8:30 am **Breakfast (Commons Dining Hall)**

8:30 am **Incorporating Sectoral Results Into Climate Economic Models - continued**

- Roy Darwin, USDA/ERS. "Promising strategies and database developments for simultaneous modeling of global agricultural and forestry in CGE models"
- Huey-Lin Lee, Purdue Univ, "GTAP Project on incorporating land-use data and GHG emissions into a computable general equilibrium framework"
- Group discussion

9:45 am **Forest Biophysical Modeling**

Chair: Cliff Hickman, US Forest Service

- James Smith, US Forest Service, "Update on forest carbon accounting in North America: FORCARB2, Products-related modeling for IPCC, and other new developments"

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10:15 am ***Break***

- 10:45 - Linda Joyce, US Forest Service, "Synthesis of State of Knowledge in Forest Ecological Modeling in Support of Climate Change Assessments"
- Graham Stinson, Mike Apps, & Werner Kurz, Canadian Forest Service, "Revisions to the Carbon Budget Model of the Canadian Forest Sector in Support of National Reporting Requirements"
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- Discussant: Brian Murray, RTI, "Use of Biophysical Modeling Inputs in Economic Models: Current opportunities and challenges"
- Group discussion
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12:00 pm **WORKSHOP REVIEW & CONCLUSION**

- Open discussion; - Research Needs; - Interim work and Plans for next Workshop
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12:30 pm ***Lunch (Commons Dining Hall)***

1:30 pm Shuttle departs to Dulles Airport

4:30 pm Shuttle departs to Dulles Airport
