

**U.S. Environmental Protection Agency's
Consequences of Global Change for Air Quality
Progress Review Workshop**

Auditorium C111AB
109 T.W. Alexander Drive
Research Triangle Park, NC

May 24 – 25, 2004

Draft Agenda

Monday, May 24, 2004

9:00 – 9:05 **Welcome and Introduction – Darrell Winner, U.S. EPA, Office of Research and Development (ORD), National Center for Environmental Research (NCER)**

9:05 – 9:15 **Assessment Overview – Anne Grambsch, U.S. EPA, ORD, National Center for Environmental Assessment (NCEA)**

9:15 – 11:30 **Session I: The Potential Consequences of Global Change on U.S. Air Quality: Meteorology**

9:15 – 9:30 Overview: Impact on Meteorology
Darrell Winner, U.S. EPA, ORD, NCER

9:30 – 10:15 Panel Discussion: Meteorological Changes (Atmospheric Reaction Rates, Partitioning, Frequency/Severity of Episodes)
Peter Adams, Carnegie Mellon University; and Loretta Mickley, Harvard University

10:15 – 10:30 **Break**

10:30 – 11:30 Panel Discussion: Detecting Effect of Climate/Downscaling Issues (Scenario Development and Testing)
Alice Gilliland, U.S. EPA, ORD, National Exposure Research Laboratory (NERL); Ruby Leung, Pacific Northwest National Laboratory; Xin-Zhong Liang, University of Illinois; and Cynthia Rosenzweig, National Aeronautics and Space Administration, Goddard Institute for Space Studies

11:30 – 12:45 **Lunch**

12:45 – 3:30 **Session II: The Potential Consequences of Global Change on U.S. Air Quality: Emissions**

12:45 – 1:00 Overview: Impact on Emissions
Darrell Winner, U.S. EPA, ORD, NCER

1:00 – 1:45 Panel Discussion: Anthropogenic Emissions (Mobile, Utility)
Bill Benjey, U.S. EPA, ORD, NERL; Hugh Ellis, Johns Hopkins University; Rob Harley, University of California at Berkeley; and Ted Russell, Georgia Tech University

1:45 – 2:45 Panel Discussion: Biogenic Emissions, Including Wildfire
Chris Geron, U.S. EPA, ORD, National Risk Management Research Laboratory (NRMRL); Brian Lamb, Washington State University; Huiting Mao, University of New Hampshire; and Sim Larkin, Don McKenzie, and Susan O'Neill, U.S. Forest Service

2:45 – 3:00

Break

3:00 – 3:30

Panel Discussion: Global Emissions/Intercontinental Transport
Terry Keating, U.S. EPA, Office of Air and Radiation (OAR), Office of Policy Analysis and Review; Carey Jang, U.S. EPA, OAR, Office of Air Quality Planning and Standards; and Daniel Jacob, Harvard University

3:30 – 5:00

Session III:

How Can We Best Model the Impact of Global Change on U.S. Regional Air Quality?

3:30 – 5:00

Panel Discussion: Development and Evaluation of Global-Regional Coupled Modeling Systems (Coupling Global and Regional Models, Evaluation and Comparison Approaches, Future Climate and Emission Scenarios, Simplified Models)
Peter Adams, Carnegie Mellon University; Alice Gilliland, U.S. EPA, ORD, NERL; Christian Hogrefe, Columbia University; Xin-Zhong Liang, University of Illinois; Dan Loughlin, U.S. EPA, ORD, NRMRL; and Joyce Rosenthal, Columbia University

5:00

Adjourn

Tuesday, May 25, 2004

9:00 – 10:30

Session IV:

Future Biogenic Emissions

9:00 – 9:45

Panel Discussion: Land Cover/Use and Vegetation Change
Ellen Cooter, U.S. EPA, ORD, NERL; Zong-Liang Yang, University of Texas at Austin; Huiting Mao, University of New Hampshire; and Chris Small, Columbia University

9:45 – 10:00

New Biogenic Emission Models
Russ Monson, University of Colorado at Boulder

10:00 – 10:15

Methane Consumption by Forest Soils Under Elevated Atmospheric CO₂
Steve Whalen, University of North Carolina at Chapel Hill

10:15 – 10:30

Break

10:30 – 12:00

Session V:

Future Anthropogenic Emissions

10:30 – 11:15

Panel Discussion: Urban Form and Transportation Network
John Davies, U.S. EPA, OAR, Office of Transportation and Air Quality; Winston Harrington, Resources for the Future; Alan Williams, University of Illinois; and Joshua Fu, University of Tennessee at Knoxville

11:15 – 12:00

Panel Discussion: Technology Change
Cynthia Gage, Tim Johnson, and Evelyn Wright, U.S. EPA, ORD, NRMRL; and Alan Williams, University of Illinois

12:00 noon

Adjourn/Lunch

Afternoon Informal Discussions