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## Consequences of Global Change for Air Quality Progress Review

**Auditorium C111AB  
Research Triangle Park, NC**

**February 20 – 21, 2007**

### AGENDA

[Print Version \(PDF\)](#) (4pp, 112K, [About PDF](#))

#### Tuesday, February 20, 2007

**12:00 noon – 12:15 p.m.**

#### **Welcome and Policy Perspective**

Lydia Wegman, Director, Health and Environmental Impacts Division, Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency

**12:15 p.m. – 12:25 p.m.**

#### **[Introduction and Assessment Overview \(PDF\)](#)**

(15 pp, 380 K)

Joel Scheraga, Global Research National Program Director, Office of Research and Development, U.S. Environmental Protection Agency

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12:25 p.m. – 12:40 p.m. | <a href="#">Uncertainty Workshop Summary (PDF)</a> (13 pp, 319 K)<br>Brooke Hemming, Office of Research and Development, U.S. Environmental Protection Agency                                                                                                            |
| 12:40 p.m. – 1:20 p.m.  | <a href="#">Application of a Unified Aerosol-Chemistry-Climate GCM To Understand the Effects of Changing Climate and Global Anthropogenic Emissions on U.S. Air Quality (PDF)</a> (39 pp, 2.2 MB)<br>Daniel Jacob, Harvard University                                    |
| 1:20 p.m. – 2:00 p.m.   | <b>Climate Impact on Regional Air Quality (CIRAQ) (PDF)</b><br>Alice Gilliland, National Oceanic and Atmospheric Administration, U.S. Environmental Protection Agency                                                                                                    |
| 2:00 p.m. – 2:40 p.m.   | <a href="#">Impact of Climate Change on U.S. Air Quality Using Multi-Scale Modeling With the MM5/SMOKE/CMAQ System</a> (40 pp, 2.9 MB)<br>Brian Lamb, Washington State University                                                                                        |
|                         |                                                                                                                                                                                                                                                                          |
| 2:40 p.m. – 3:20 p.m.   | Break                                                                                                                                                                                                                                                                    |
|                         |                                                                                                                                                                                                                                                                          |
| 3:20 p.m. – 4:00 p.m.   | <a href="#">Impacts of Global Climate and Emission Changes on U.S. Air Quality (PDF)</a> (47 pp, 4.6 MB)<br>Xin-Zhong Liang, University of Illinois                                                                                                                      |
| 4:00 p.m. – 4:20 p.m.   | <b>New Project—<a href="#">Impact of Global Change on Urban Air Quality via Changes in Mobile Source Emissions, Background Concentrations, and Regional-Scale Meteorological Feedbacks (PDF)</a></b> (23 pp, 1.5 MB)<br>Michael Kleeman, University of California, Davis |
| 4:20 p.m. – 4:40 p.m.   | <b>New Project—<a href="#">Sensitivity of Heterogeneous Atmospheric Mercury Processes to Climate Change (PDF)</a></b> (20 pp, 1.8 MB)<br>James Schauer, University of Wisconsin                                                                                          |
| 4:40 p.m. – 5:00 p.m.   | <b>New Project—<a href="#">Effects of Global Change on the Atmospheric Mercury Burden and Mercury Sequestration Through Changes in Ecosystem Carbon Pools (PDF)</a></b> (19 pp, 770 K)<br>Daniel Obrist, DRI                                                             |

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| <b>5:00 p.m.</b>                    | <b>Adjournment</b>                                                                                                                                                                                                                                         |
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| <b>Wednesday, February 21, 2007</b> |                                                                                                                                                                                                                                                            |
| <b>8:45 a.m. – 9:00 a.m.</b>        | <b>Day 2 Welcome</b><br><a href="#">Consequences of Global Change for Air Quality (PDF)</a> (5 pp, 364 K)<br>Dan Costa, Air Research National Program Director, Office of Research and Development, U. S. Environmental Protection Agency                  |
| <b>9:00 a.m. – 9:30 a.m.</b>        | <a href="#">A Coupled Measurement-Modeling Approach To Improve Biogenic Emission Estimates: Application to Future Air Quality Assessments (PDF)</a> (28 pp, 1.8 MB)<br>Huiting Mao, University of New Hampshire                                            |
| <b>9:30 a.m. – 10:15 a.m.</b>       | <a href="#">Impacts of Climate Change and Global Emissions on U.S. Air Quality: Development of an Integrated Modeling Framework and Sensitivity Assessment (PDF)</a> (42 pp, 1.7 MB)<br>Peter Adams, Carnegie Mellon University                            |
|                                     |                                                                                                                                                                                                                                                            |
| <b>10:15 a.m. – 1:30 p.m.</b>       | <b>Poster Session/Lunch</b>                                                                                                                                                                                                                                |
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| <b>1:30 p.m. – 2:00 p.m.</b>        | <a href="#">Guiding Future Air Quality Management in California: Sensitivity to Changing Climate (PDF)</a> (23 pp, 2.6 MB)<br>Robert Harley, University of California, Berkeley                                                                            |
| <b>2:00 p.m. – 2:30 p.m.</b>        | <a href="#">Sensitivity and Uncertainty Assessment of Global Climate Change Impacts on Ozone and Particulate Matter: Examination of Direct and Indirect Emission Induced Effects (PDF)</a> (59 pp, 1.8 MB)<br>Ted Russell, Georgia Institute of Technology |
| <b>2:30 p.m. – 2:50 p.m.</b>        | <b>New Project—</b> <a href="#">Effects of Future Emissions and a Changed Climate on Urban Air Quality (PDF)</a> (22 pp, 1.3 MB)<br>Mark Jacobson, Stanford University                                                                                     |
|                                     |                                                                                                                                                                                                                                                            |
| <b>2:50 p.m. – 3:20 p.m.</b>        | <b>Break</b>                                                                                                                                                                                                                                               |

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| <b>3:20 p.m. – 3:40 p.m.</b> | <b>New Project—<a href="#">Global and Regional-Scale Models for Ozone, Aerosols, and Mercury: Investigation of Present and Future Conditions (PDF)</a></b> (43 pp, 493 K)<br>Sanford Sillman, University of Michigan                                      |
| <b>3:40 p.m. – 4:00 p.m.</b> | <b>New Project—<a href="#">Work Plan for the Development, Application, and Evaluation of Global-Through-Urban WRF/Chem to Study the Impact of Global Change on Air Quality (PDF)</a></b><br>(22 pp, 409 K)<br>Yang Zhang, North Carolina State University |
| <b>4:00 p.m. – 5:00 p.m.</b> | <b>Synthesis and Discussion Panel</b><br>Tyler Fox, Anne Grambsch, Bryan Hubbell,<br>Terry Keating, Ben Deangelo<br>Moderator: Rosalina Rodriguez                                                                                                         |
|                              |                                                                                                                                                                                                                                                           |
| <b>5:00 p.m.</b>             | <b>Adjournment</b>                                                                                                                                                                                                                                        |

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