

Atmospheric Science Progress Review Meeting

Auditorium A-B-C, Research Triangle Park, NC

Final Agenda

(As of June 13, 2007)

Thursday, June 21, 2007

9:15 a.m. Welcome

Dan Costa, EPA Air Research National Program Director

Advances in Measurement Methods I

(Location: Auditorium A-B-C)

9:30 a.m. Integrating the Thermal Behavior and Optical Properties of Carbonaceous Particles: Theory, Laboratory Studies, and Application to Field Data

Tami Bond, University of Illinois

10:00 a.m. Application of Thermal Desorption GC-MS (TD-GC-MS) for the Analysis of Polar and Non-Polar Semi-Volatile and Particle-Phase Molecular Markers

Jamie Schauer, University of Wisconsin, Madison

10:30 a.m. Highly Time-Resolved Source Apportionment Techniques for Organic Aerosols Using the Aerodyne Aerosol Mass Spectrometer

Jose Jimenez, University of Colorado, Boulder

11:00 a.m. Secondary and Regional Contributions to Organic PM: A Mechanistic Investigation of Organic PM in the Eastern and Southern United States

Barbara Turpin, Rutgers University

11:30 a.m. Lunch

Advances in Measurement Methods II

(Location: Auditorium A)

Advances in Receptor Modeling

(Location: Auditorium C)

12:30 p.m. Particle Sampler for On-Line Chemical and Physical Characterization of Particulate Organics

John Jayne, Massachusetts Institute of Technology

New Technologies for Source Apportionment

Ronald Henry, University of Southern California

1:00 p.m. Aethalometric Liquid Chromatographic Mass Spectrometric Instrument for Characterization of Carbonaceous Ambient Particulate Matter (PM_{2.5}). Laboratory and Field Studies

Purnendu Dasgupta, University of Texas, Arlington

Evaluation of Regional Scale Receptor Modeling

Douglas Lowenthal, Desert Research Institute

1:30 p.m. Understanding Thermal and Optical Carbon Analysis Methods

Judy Chow, Desert Research Institute

Development of Advanced Factor Analysis Methods for Carbonaceous PM Source Identification and Apportionment

Phil Hopke, Clarkson University

2:00 p.m. Evaluation and Minimization of Organic Aerosol Sampling Artifacts Using Impactors and Quartz Fiber Filter Denuders

Dennis Fitz, University of California, Riverside

Addressing Temporal Correlation, Incomplete Source Profile Information, and Varying Source Profiles in the Source Apportionment of Particulate Matter

William Christensen, Brigham Young University

2:30 p.m. Break

Advances in Measurement Methods III*(Location: Auditorium A)***Advances in Airshed Modeling***(Location: Auditorium C)*

3:00 p.m.	Development and Application of a Mass Spectra-Volatility Database of Combustion and Secondary Organic Aerosol Sources for the Aerodyne Aerosol Mass Spectrometer <i>Paul Ziemann, University of California, Riverside</i>	Modeling Carbonaceous Fine PM in CMAQ: Current Model Performance and Future Plans <i>Prakash Bhave and Annmarie Carlton, National Oceanic and Atmospheric Administration/EPA</i>
3:30 p.m.	Polar Organic Compounds in Fine Particles From the New York, New Jersey, and Connecticut Regional Airshed <i>Monica Mazurek, Rutgers University</i>	Integrated Source/Receptor-Based Methods for Source Apportionment and Area-of-Influence (AOI) Analysis <i>Ted Russell, Georgia Tech University</i>
4:00 p.m.	Contributions of SOA to Ambient PM _{2.5} <i>John Offenberg, EPA/National Exposure Research Laboratory</i>	Source-Oriented Chemical Transport Model for Primary and Secondary Organic Aerosol <i>Mike Kleeman, University of California, Davis</i>
4:30 p.m.	Near Real-Time Speciation of Organic Aerosols for Source Apportionment <i>Murray Johnston, University of Delaware</i>	Development of a Tagged Species Source Apportionment Algorithm To Characterize 3-Dimensional Transport and Transformation of Precursors and Secondary Pollutants <i>Gail Tonnesen, University of California, Riverside</i>
5:00 p.m.	Adjourn	

Friday, June 22, 2007

	Sources of Organic PM I (Location: Auditorium A)	Sources of Organic PM II (Location: Auditorium C)
8:30 a.m.	Secondary Aerosol Formation From Gas and Particle Phase Reactions of Aromatic Hydrocarbons <i>Qianfeng Li</i> , University of North Carolina at Chapel Hill	Organic Speciation for Source Apportionment in the Detroit Exposure and Aerosol Research Study <i>Stephen McDow</i> , EPA/National Exposure Research Laboratory
9:00 a.m.	Atmospheric Aerosols From Biogenic Hydrocarbon Oxidation <i>Jana Milford</i> , University of Colorado, Boulder	Emissions Inventory and Process Reconciliation Using Molecular Markers and Hybrid/Inverse Photochemical Modeling With Direct Sensitivity Analysis <i>Ted Russell</i> , Georgia Tech University
9:30 a.m.	Using Carbohydrates as Molecular Markers To Determine the Contribution of Agricultural Soil to Ambient Fine and Course PM <i>Matt Fraser</i> , Rice University	Atmospheric Processing of Organic Particulate Matter: Formation, Properties, Long-Range Transport, and Removal <i>Neil Donahue</i> , Carnegie Mellon University
10:00 a.m.	Advancing the Chemical Characterization of Carbonaceous Aerosols for Improved Source-Receptor Modeling <i>Mike Hays</i> , EPA/National Risk Management Research Laboratory	Bayesian and Adjoint Inverse Model Analyses of PM Sources in the United States Using Observations From Surface, Aircraft, and Satellite Platforms <i>Daniel Jacob</i> , Harvard University
10:30 a.m.	Poster Session and Lunch (Location: Building B Atrium)	
1:30 p.m.	Welcome to the Afternoon Session <i>Lydia Wegman</i> , EPA/Office of Air Quality Planning and Standards	
	Sources of Organic PM III (Location: Auditorium A-B-C)	
1:40 p.m.	Advancing Aerosol Time of Flight Mass Spec (ATOFMS) to a Quantitative Tool for Source Apportionment <i>Kim Prather</i> , University of California, San Diego	
2:10 p.m.	Fundamental Experimental and Modeling Studies of Secondary Organic Aerosol <i>John Seinfeld</i> , Caltech	
2:40 p.m.	Source-Apportionment of Primary Organic Carbon in the Eastern United States Combining Receptor-Models, Chemical Transport Models, and Laboratory Oxidation Experiments <i>Allen Robinson</i> , Carnegie Mellon University	
3:10 p.m.	Closing Thoughts <i>Tyler Fox</i> , EPA/Office of Air Quality Planning and Standards	
3:25 p.m.	Adjourn	