

Aerosol Metrology for Climate Workshop

March 14 – 15, 2011

NIST Campus, Gaithersburg, MD, USA 20899
 Bldg. 215, Advanced Measurement Laboratory, Rm. C103-106

Monday, March 14		
7:30 -8:00 am	Continental Breakfast	
8:00 - 10:30 am Opening Plenary Session	8:00 am	Welcome: <i>Dianne Poster, NIST</i>
	8:05 am	Opening Remarks: <i>James Whetstone, NIST, Special Assistant to the Director for Greenhouse Gases</i>
	8:15am	Workshop Scope: Workshop Purpose, Deliverables, Logistics, and Facilitated Sessions <i>John Small, NIST</i>
	8:30 am	Opening Plenary: The Role of Aerosols in Climate Change <i>Frank Raes, EU Joint Research Centre</i>
	9:15 am	Programmatic Plenary: Uncertainties and Frontiers in Aerosol Research <i>Dorothy Koch, DOE HQ</i>
	10:00 – 10:20 am	Break (Coffee Available)
10:20 am -12 noon Morning Plenary Speakers	Session I: “The Problem” Convener: Joseph Conny, NIST	
	10:20 am	Optical Properties: The Global Atmosphere Watch (GAW) Aerosol Lidar Observation Network (GALION): Issues Involved with Obtaining Precise Optical Extinction Profiles for Climate Records <i>Raymond M. Hoff, UMBC</i>
	10:50 am	Chemical/Dimensional Metrology: Identification and Analysis of Atmospheric Particles <i>Peter R. Buseck, Arizona State University</i>
	11:10 am	Optical Properties: Variation of Aerosol Optical Properties and Radiative Implications <i>Stephen E. Schwartz, Brookhaven National Laboratory</i>
	11:30 am	Modeling: Incorporation of Aerosol Optical Properties into Climate Models <i>Mark Z. Jacobson, Stanford University</i>
	11:50 am	Optical Properties of Airborne Dust: The Effect of Particle’s Nonsphericity on the Single-Scattering Properties and Downstream Applications <i>Ping Yang, Texas A&M University</i>
12:10 pm	Plenary Final Q&A /Wrap Up	

Monday, March 14	
12:15 – 1:15 pm	Lunch (on-site)
1:15 -3:45pm Concurrent breakout groups A, B, and C	Group A Chemical/Dimensional Metrology Session Chairs: Peter Buseck, Charles Kolb, Rodney Weber
	Group B Optical Properties Session Chairs: Stephen Schwartz, Daniel Lack, Carrie Masiello, Ping Yang
	Group C Modeling Session Chairs: Rao Kotamarthi, Ralph Kahn, Mark Jacobson
3:45 – 4:00 pm	Break (Coffee Available) Breakout groups prepare reports and move to group session.
4:00 – 4:45 pm Group session	Highlights of breakout reports.
4:45 – 5:00 pm	Conclusion for the Day and Preview of Next Day
5:15 pm	Bus to Courtyard Marriott at Washingtonian Center
6:30 pm	Optional Group Dinner (TBD)

END Day 1

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Tuesday, March 15		
7:30 – 8:00 am	Continental Breakfast	
8:00 – 10:00 am Morning Expert Speakers	8:00 am	Call to Order and Announcements
	Session II: “The Solution” <i>Convener: Joseph Hodges, NIST</i>	
	8:10 am	Optical Properties: Challenges for In-Situ Measurements of Aerosol Absorption and Influence on Climate Forcing <i>Daniel A. Lack, NOAA</i>
	8:30 am	Chemical/Dimension Metrology: How Physical and Chemical Properties Data Reflects Aerosol Formation Processes and their Evolution <i>Rodney J. Weber, Georgia Institute of Technology</i>
	8:50 am	Modeling: Aerosol Parameterizations and Evaluations using Observational Data <i>V. Rao Kotamarthi, Argonne National Laboratory</i>
	9:10 am	Chemical/Dimension Metrology: Development of Advanced Field Measurement Techniques for Sampling Ambient Atmospheric Particles <i>Charles E. Kolb, Aerodyne Research, Inc.</i>
	9:30 am	From Measurements to Models: What Satellite and Sub-Orbital Instruments Can and Must Contribute <i>Ralph A. Kahn, NASA GSFC</i>
	9:50 am	Optical Properties: Elucidation of Environmental Carbon Cycles <i>Carrie A. Masiello, Rice University</i>
	10:10	Plenary Q&A Wrap Up
10:15	Break and Move to Breakouts (Coffee Available)	
10:30 – 11:50 am Concurrent breakout sessions Groups A, B, and C	Group A	Chemical/Dimensional Metrology Session Chairs: Peter Buseck, Charles Kolb, Rodney Weber
	Group B	Optical Properties Session Chairs: Stephen Schwartz, Daniel Lack, Carrie Masiello, Ping Yang
	Group C	Modeling Session Chairs: Rao Kotamarthi, Ralph Kahn, Mark Jacobson
11:50 am – 12:15 pm	Lunch	Lunch - Move to Plenary for Working Lunch and Report-outs from Session Chairs

Tuesday, March 15: “The Solution” Convener: Joseph Hodges, NIST		
12:15 – 1:00 pm Session Chairs to present their deliverables	12:15 – 12:30 Group A	Chemical/Dimensional Metrology Session Chairs: Peter Buseck, Charles Kolb, Rodney Weber
	12:30 – 12:45 Group B	Optical Properties Session Chairs: Stephen Schwartz, Daniel Lack, Carrie Masiello, Ping Yang
	12:45 – 1:00 Group C	Modeling Session Chairs: Rao Kotamarthi, Ralph Kahn, Mark Jacobson
1:00 – 1:40 pm	The Way Forward: Potential Models for Collaboration and Cross-fertilization <i>NIST, Session Leads</i>	
1:40 – 1:50 pm	Wrap-up <i>NIST</i>	
1:50 – 2:00 pm	Concluding remarks <i>Roger van Zee, NIST</i>	
2:00 pm	Adjourn	

END Day 2