

2009 National Ambient Air Monitoring Conference



November 2-5, 2009
 Gaylord Opryland Hotel
 Nashville, TN
 AGENDA



SUNDAY, NOVEMBER 1, 2009 –EARLY REGISTRATION

5:00pm – 7:00pm Registration (**Presidential Lobby**)
 5:00pm – 9:00pm Vendor Set Up (**Ryman Hall B3**)

MONDAY, NOVEMBER 2, 2009 –TRAINING SESSIONS

7:00am – 8:00am Registration (**Presidential Lobby**)
 7:00am – 12:00pm Vendor Set Up (**Ryman Hall B3**)

<p>Network Assessments Room – Cheekwood ABC <i>Mike Rizzo, EPA/OAQPS</i> <i>Tammy Eagan, FL DEP</i> Chairs</p> <p>Additional Contributors: <i>Kevin Cavender, EPA/OAQPS</i> <i>Hilary Hafner, Sonoma Technology</i> <i>Mike Koerber, LADCO</i></p> <p>8:00am – 12:00pm Learn how you can use network assessments to optimize your network to improve the value of the data you collect, as well as save money. The training will cover the steps involved in a network assessment, analyses and tools that you can use, and case examples.</p>	<p>Continuous PM Mass Instruments Room - Magnolia Ballroom <i>Tim Hanley, EPA/OAQPS</i> <i>George Allen, NESCAUM</i> Chairs</p> <p>Additional Contributors: <i>Dennis Hart, Met One, Inc.</i> <i>Jeff Ambs, ThermoFisher Scientific, Inc.</i> <i>John Hiss, ThermoFisher Scientific, Inc.</i> <i>Jacob Thekkethala, ThermoFisher Scientific, Inc.</i> <i>Bill Roe - Grimm Technologies, Inc.</i> <i>Gil Cossette - Grimm Aerosol Canada, Inc.</i></p> <p>8:00am – 12:00pm Learn the latest information on recently approved and candidate Federal Equivalent Methods (FEM's) for PM_{2.5} continuous mass. Presentations will cover measurement principle, FEM testing, installation, operation, and maintenance of continuous PM monitors for the: MetOne BAM 1020, Thermo TEOM/FDMS, Thermo 5030 SHARP and FH62C14-DHS, and GRIMM Model 180. Learn about recent upgrades, updates, tips, and tricks. Vendors will be on hand as well as experienced operators to provide insight to the best methods of operation and maintenance. Bring your questions, problems and any suggestions you may have.</p>	<p>AQS/Discoverer Training Room – Hermitage AB <i>Jonathan Miller, EPA/OAQPS</i> <i>Angie Shatas, EPA/OAQPS</i> Chairs</p> <p>8:00am – 12:00pm AQS is EPA's database of ambient air pollution data collected by EPA, state, local, and tribal air pollution control agencies from thousands of monitoring stations. AQS also contains meteorological data, descriptive information about each monitoring station (including its geographic location and its operator), and data quality assurance/quality control information. Learn how to retrieve data from AQS by a variety of tools (AQS Reports, AQS Data Mart, and how you can build your own database queries using Oracle Discoverer).</p>
--	--	---

2009 National Ambient Air Monitoring Conference

MONDAY, NOVEMBER 2, 2009 – TRAINING SESSIONS

12:00pm – 1:30pm LUNCH – *on your own*

<p style="text-align: center;">Data Validation & Analysis Room – Cheekwood ABC <i>Mike Rizzo, EPA/OAQPS</i> <i>Tammy Eagan, FL Dept. Environmental Protection</i> <i>Chairs</i></p> <p>Additional Contributors: <i>Hilary Hafner, Sonoma Technology</i> <i>Dick Duker, Bay Area Air Quality Management Div.</i> <i>Rudy Husar, Washington Univ.</i> <i>Melinda Ronca-Battista, Univ. of Northern Arizona, Institute of Tribal Professionals</i> <i>Mike Koerber, LADCO</i></p> <p>1:30pm – 5:30pm</p> <p>Topics will provide an overview of the data validation process and demonstrations of the tools you can use to identify outliers and mistakes in your datasets. Training will also cover data analysis tools that will help you answer questions regarding the air quality in your area including new web based tools such as DataFed.net, and Air Explorer</p>	<p style="text-align: center;">NCore Network Implementation Room - Magnolia Ballroom <i>Lewis Weinstock, EPA/OAQPS</i> <i>Yousaf Hameed, Clark Co.</i> <i>Chairs</i></p> <p>Additional Contributors: <i>Robert Judge, EPA Region 1</i> <i>David Shelow, EPA/OAQPS</i> <i>Dirk Felton, NYDEC</i> <i>Dave Krask, MD Dept. of the Environment</i></p> <p>1:30pm – 5:30pm</p> <p>This session will provide a detailed review of requirements that monitoring agencies must meet to operate an NCore station by the regulatory deadline of January 1, 2011. The NCore network self-assessment document will be used as a template for this workshop, providing a structure to guide discussions of network design, logistics, methods, and organizational readiness. We will also review and discuss frequently asked NCore-related questions that have been received over the past few years, and provide updates on emerging issues such as PM10-2.5 sampling, ammonia, and lead</p>	<p style="text-align: center;">QA Training Room – Heritage AB <i>Dennis Crumpler, EPA/OAQPS</i> <i>Donovan Rafferty, WA Dept. of Ecology</i> <i>Chairs</i></p> <p>Additional Contributors: <i>Mark Shanis, EPA/OAQPS</i> <i>Michael Papp, EPA/OAQPS</i> <i>Melinda Ronca-Battista, Univ. of Northern Arizona, Institute of Tribal Professionals</i> <i>Rayna Broadway, MO. Dept of Natural Resources</i> <i>Jonathan Miller, EPA/OAQPS</i></p> <p>1:30pm – 5:30pm</p> <p>This session will provide ambient air monitoring quality assurance requirements contained in 40 CFR Part 58 Appendix A as well as covering Federal QA requirements including the ambient air QA requirements for SLAMS/SPM/PSD monitoring. Training will also be provided on the various quality control samples for each criteria pollutant including their frequency of collection and how they should be reported, the statistics for assessing data quality, and the tools available including the Data Assessment Statistical Calculator and the AMP 255 report. This training event is intended for personnel needing an initial understanding of the ambient air quality system and those wanting an update on the changes that have taken place over the years.</p>
--	--	---

2009 National Ambient Air Monitoring Conference

TUESDAY, NOVEMBER 3, 2009 –PLENARY SESSION –PRESIDENTIAL BALLROOM AB

7:00am – 8:00am	Registration (Presidential Lobby)
7:00am – 8:00 am	Refreshments (Ryman Hall B3)
8:00am – 8:15am	EPA Welcome <i>Lewis Weinstock, Group Leader, Ambient Air Monitoring Group, EPA</i>
8:15am – 8:30am	NACAA Welcome <i>Dick Valentinetti, Director of the Vermont Air Pollution Control Division</i>
8:30am -10:00am	NAAQS Updates and Monitoring Implications <i>Lewis Weinstock, Group Leader, Ambient Air Monitoring Group, EPA</i> <i>Joann Rice, EPA/OAQPS</i>
10:00am -10:30am	BREAK (Refreshments in Ryman Hall B3)
10:30am - 11:00am	NAAQS Discussion Panel <i>Lewis Weinstock, Group Leader, Ambient Air Monitoring Group, EPA</i> <i>Beth Hassett-Sipple, EPA/OAQPS</i> <i>Howard Schmidt, EPA Region 3</i> <i>Philip Fine, South Coast Air Quality Management District</i> <i>Tammy Eagan, Florida Department of Environmental Protection</i>
11:00am – 11:30am	NCore Update <i>Tim Hanley, EPA/OAQPS</i>
11:30am – 12:00pm	Network Assessment Overview <i>Kevin Cavender, EPA/OAQPS</i> <i>Mike Rizzo, EPA/OAQPS</i>
12:00pm – 1:30pm	LUNCH – on your own
1:30pm – 2:15pm	FEATURED SPEAKER: Evaluating the Human Health Costs of Air Pollution: Critical Joint Roles of Air Monitoring and Epidemiology <i>Arden Pope, Brigham Young University</i>
2:15pm – 2:45pm	Recent Findings from EPA/ORD Ambient Measurement Research Studies <i>Tim Watkins, EPA/ORD</i>
2:45pm – 3:15pm	Near-Road Air Quality Monitoring Research <i>Richard Baldauf, EPA/ORD</i>
3:15pm – 3:45pm	BREAK (Refreshments in Ryman Hall B3)
3:45pm –5:00pm	Key Health Effects Information in Recent NAAQS Reviews <i>Deirdre Murphy, EPA/OAQPS</i> <i>Beth Hassett-Sipple, EPA/OAQPS</i>
5:00pm – 5:30pm	Mobile Monitoring of Ambient PM_{2.5} in Alaska’s Fairbanks North Star Borough <i>James Conner, Alaska Dept. of Environmental Conservation</i>
6:00pm – 8:00pm	Poster Session/Reception –Ryman Hall B3

2009 National Ambient Air Monitoring Conference

WEDNESDAY, NOVEMBER 4, 2009

<p>7:00am – 8:00am Registration (Presidential Lobby)</p> <p>7:00am – 8:00am Refreshments (Ryman Hall B3)</p>		
<p>Data Acquisition & Reporting Room – Cheekwood ABC <i>Nealson Watkins, EPA/OAQPS</i> <i>Eric Stevenson, Bay Area Air Quality Management District</i> <i>Chairs</i></p>	<p>Air Toxics I Room – Magnolia Ballroom <i>Michael Jones, EPA/OAQPS</i> <i>Paul Sierzenga, NYS Dept of Environmental Conservation</i> <i>Chairs</i></p>	<p>Meteorological Monitoring Room – Hermitage AB <i>Mazeeda Khan, EPA Region 2</i> <i>Kevin Cavender, EPA/OAQPS</i> <i>Chairs</i></p>
<p>8:00am – 10:00am Next Generation Digital Data Acquisition with Envitech Ltd's Envidas Ultimate Data System – <i>Pete Babich, CT DEP</i></p> <p>Spaghetti and Christmas Lights – How to Network your Shelter – <i>Rebecca Peltzer and Jennifer Bradley, Polk County, IA</i></p> <p>New AIRNow Data Transfer Standards – <i>Alan Chan, Sonoma Technology</i> <i>John White, EPA/OAQPS</i></p> <p>Instrument Metadata Management – <i>Mark Stoelting, Bay Area Air Quality Management District</i></p> <p>Monitoring by Citizens and Its Impact on the Air Quality Community and AIRNow – <i>Tim Dye, Sonoma Technology</i></p>	<p>8:00am – 10:00am National Air Toxics Ambient Monitoring Program Overview – <i>Michael Jones, EPA/OAQPS</i></p> <p>Ambient Air Acrolein Measurement via TO-15 – <i>David Shelow, EPA/OAQPS</i></p> <p>Passive Canister Sampling Challenges – <i>Dave Dayton, ERG</i></p> <p>National Air Toxics Trends Station (NATTS) Quality Assurance Three-Year Assessment, 2005-2007 – <i>Dennis Mikel, EPA/OAQPS</i></p> <p>National Air Toxics Trends Station (NATTS) Data Characterization, 2004-2007 – <i>Regi Oommen, ERG</i></p>	<p>8:00am – 10:00am A Unique Approach to the Collection of Boundary Air Quality and Meteorological Data for Ozone Attainment Modeling of California's South Coast Basin – <i>Bob Baxter, T&B Systems</i></p> <p>Radiosonde System and Fixed Profiler QA – <i>Mike Gilroy, Puget Sound Clean Air Agency</i></p> <p>Free Automated Near-real Time QC for Met Data – <i>George Allen, NESCAUM</i></p> <p>Intercomparison Between Sonic and Mechanical Anemometers – <i>Dennis Mikel, EPA/OAQPS</i></p> <p>OPEN DISCUSSION ON IMPROVING MET DATA STORAGE, ACCESS, AND UTILIZATION</p>
<p>10:00am – 10:30am BREAK (Refreshments in Ryman Hall B3)</p>		
<p>New Monitoring Technologies Room – Cheekwood ABC <i>Joann Rice, EPA/OAQPS</i> <i>George Allen, NESCAUM</i> <i>Chairs</i></p>	<p>Air Toxics I Continued Room – Magnolia Ballroom</p>	<p>Quality Assurance Room – Hermitage AB <i>Dennis Crumpler, EPA/OAQPS</i> <i>Tammy Eagan, FL Dept. of Environmental Protection</i> <i>Chairs</i></p>
<p>10:30am – 12:00pm A Year Spent with the Tekran Speciated Ambient Mercury Analyzer at Two Urban Locations in New York State – <i>Dirk Felton, NYDEC</i></p> <p>Operating Experience with a Near-Real-Time Ambient Airborne Metals Instrument System (Cooper Environmental Systems Xact 620) – <i>Will Wetherell, MO DNR</i></p> <p>Photolytic Detection of "True" NO₂; ICAMS; ICPMS - <i>Stephanie Shaw, EPRI</i></p> <p>Monitoring True NO₂ - Experience at Great Smoky Mountains with an LED Photolytic Converter – <i>John D. Ray, NPS</i></p>	<p>10:30am – 12:00pm Method Detection Limit (MDL) Development and Standardization, <i>Julie Swift, ERG</i></p> <p>USEPA Region 5 Interlab Comparability Program – <i>Motria Caudill, EPA Region 5</i></p> <p>NYSDEC Experience with the Synspec BTEX Instrument – <i>Paul Sierzenga, NYS Dept of Environmental Conservation</i></p> <p>City of Houston's Mobile Ambient Air Monitoring Lab – <i>James Rhubottom, Jr., City of Houston DHHS</i></p>	<p>10:30am – 12:00pm QA Statistics and the DASC Tool, The AMP 255 Report Generated by the Air Quality System – <i>Jonathan Miller, EPA/OAQPS</i></p> <p>Through the Probe Audits for the NCore Trace Gas Monitors – <i>Mark Shanis, EPA/OAQPS</i></p>

2009 National Ambient Air Monitoring Conference

WEDNESDAY, NOVEMBER 4, 2009

12:00pm – 1:00pm LUNCH – on your own

New Monitoring Technologies Continued Room – Cheekwood ABC	Air Toxics II Room – Magnolia Ballroom <i>Barbara Driscoll, EPA/OAQPS</i> <i>Paul Sierzenga, Tonawanda NY</i> <i>Community Air Quality Study</i> <i>Chairs</i>	Quality Assurance Continued Room – Hermitage AB
<p>1:00pm – 3:00pm</p> <p>A Draining Experience: Working with the TSI 3781 Water-based CPC – <i>Philip Fine, South Coast Air Quality Management Div.</i></p> <p>Ambient Ammonia Monitoring Initiative – <i>Nealson Watkins, EPA/OAQPS</i></p> <p>Nano-Particle/Ultrafine Monitoring State of the Science - <i>Dennis Mikel, EPA/OAQPS</i></p> <p>Field monitoring of ozone precursor type and air toxic compounds with a small, fast GC analyzer - <i>Edward B. Overton, LSU</i></p> <p>Passive PM10-2.5 Monitoring – <i>Tim Watkins, EPA/ORD</i></p>	<p>1:00pm – 3:00pm</p> <p>Short Overview Air Toxics Data Analysis – <i>Barbara Driscoll, EPA/OAQPS</i></p> <p>Air Toxics Monitoring in Idaho’s Treasure Valley – <i>Carl Brown, Idaho DEQ</i></p> <p>Tonawanda New York Community Air Quality Study - <i>Paul Sierzenga, Tonawanda New York Community Air Quality Study</i></p> <p>Air Toxics Seasonal and Spatial Characterization – <i>Matt Harper, Puget Sound Clean Air Agency</i></p>	<p>1:00pm – 3:00pm</p> <p>Launch of Performance Verification and Audit Report Forms for Loading PM_{2.5} Speciation Flow Rate Data into AQS – <i>Ed Rickman, RTI</i></p> <p>Practical Quality Control Training – <i>Tammy Eagan, FL DEP</i></p> <p>Findings in the NPAP TTP Audits of Ozone Samplers in Puerto Rico and New York – <i>Mark Shanis, EPA/OAQPS</i> <i>Avraham Teitz, EPA Region 2</i></p>

3:00pm – 3:30pm BREAK (Refreshments in Ryman Hall B3)

New Monitoring Technologies Continued Room – Cheekwood ABC	Air Toxics II Continued Room – Magnolia Ballroom	Quality Assurance Continued Room – Hermitage AB
<p>3:30pm – 5:30pm</p> <p>Absorption measurements of Teflon filters to measure EC (black carbon) – <i>Neil Frank, EPA/OAQPS</i></p> <p>Semi-continuous Benzene Monitoring in Burlington, Vermont – <i>Robert C. Lacaillade, Vermont APCD</i></p> <p>Application of Extractive Cryogenic Preconcentration with Fourier Transform Infrared Spectroscopy: Preliminary Laboratory and Field Results - <i>Patrick I. Buckley, Univ. of Alabama</i></p>	<p>3:30pm – 5:30pm</p> <p>Air Toxics in El Paso, TX: Implications for Cross-Border Transport – <i>Richard Tropp, Desert Research Institute</i></p> <p>Concentrations of Air Toxics Around a Pulp and Paper Mill in Lewiston, Idaho – <i>Hilary Hafner, Sonoma Technology</i></p> <p>Hexavalent Chromium Levels in DC Ambient Air: Any Health Concerns? – <i>Robert Day, DC DE</i></p>	<p>3:30pm – 5:30pm</p> <p>A Cascade Ozone Rendezvous – <i>Donovan Rafferty, Washington Dept. of Ecology</i></p> <p>Development of a QA Program for PAMS – <i>Jason Low, South Coast; Pete Babich, CT DEP; Robert Judge, EPA Region 1</i></p> <p>QA Handbook Volume VI: Optical Remote Sensing – <i>Dennis Mikel, EPA/OAQPS</i></p> <p>Discussion of Establishing a Hierarchy of NIST Traceability for Flow-Rate Audit and Calibration Standards – <i>Mark Shanis, EPA/OAQPS</i></p>

2009 National Ambient Air Monitoring Conference

THURSDAY, NOVEMBER 5, 2009

7:00am – 8:00am

Refreshments (Presidential Lobby)

PLENARY SESSION – Tennessee DE

<p>8:00am – 10:00am</p>	<p>School Air Toxics Project Overview: <i>Richard Wayland, Director, Air Quality Assessment Division, EPA</i> Monitoring: Program Office Perspective - <i>Michael Jones, EPA/OAQPS</i> Monitoring: Regional Office Perspective- <i>Andrew Hass, EPA Region 3</i> Monitoring: State Agency Perspective- <i>Scott Reynolds, SC DHEC</i> Data Analysis: <i>Deirdre Murphy, EPA/OAQPS</i> Communications: <i>Alison Davis, EPA/OAQPS</i> Panel Discussion (Moderator: <i>Alison Davis, EPA/OAQPS)</i></p>	
<p>10:00am – 10:30am</p>	<p>BREAK (Refreshments in Presidential Lobby)</p>	
<p>10:30am – 11:00am</p>	<p>Session Report Out</p>	
<p>11:00am – 11:30am</p>	<p>Questions & Answers with EPA and NACAA <i>Richard Wayland</i> <i>Lewis Weinstock</i> <i>Dick Valentinetti</i></p>	
<p>11:30am – 1:00pm LUNCH – on your own</p>		
<p>TECHNICAL BREAK OUT SESSION</p>		
<p>Air Toxics III Room – Tennessee DE <i>Richard Baldauf, EPA/ORD</i> <i>Chair</i></p>	<p>Wood smoke, Fires, and Emergency Response Room – Presidential A <i>Donovan Rafferty, WA Dept. of Ecology</i> <i>Nealson Watkins, EPA/OAQPS</i> <i>Chairs</i></p>	<p>Tribal Monitoring Room – Presidential B <i>Christopher Lee, Tribal Air Monitoring Support (TAMS) Center</i> <i>Chair</i></p>
<p>1:00pm – 3:00pm OTAQ Overview of Mobile Source Air Toxics Regs and Activities – <i>Richard Baldauf, EPA/ORD</i></p> <p>Air Quality at Increasing Distances from a High Traffic Highway in New Jersey – <i>Francisco Artigas, New Jersey Meadowlands Commission</i></p> <p>Diesel Truck Stop Emissions and Air Quality Impacts – <i>John Storey, Oak Ridge National Laboratory</i></p> <p>Measurement and Data Analysis for Source Attribution of Ambient Particulate Matter, Arsenic, and Other Air Toxics Metals in St. Louis – <i>Jay Turner, Washington University</i></p> <p>Effect of Proximity to a Freeway with Heavy-duty Diesel Traffic on the Ambient Concentrations of Criteria and Air Toxic Pollutants – <i>Andrea Polidori, South Coast Air Quality Management</i></p>	<p>1:00pm – 3:00pm Winter Mobile and Fixed Site Wood Smoke PM Measurements in the Adirondacks – <i>George Allen, NESCAUM</i></p> <p>Mobile Monitoring and AIRNow-Tech during the 2008 Northern California Wildfires – <i>Alan Chan, Sonoma Technology</i></p> <p>Levoglucosan and Water Soluble Organic Carbon from PM_{2.5} Teflon Filters – <i>Neil Frank, EPA/OAQPS</i></p>	<p>1:00pm – 3:00pm Primary Quality Assurance Organization and Tribal Air Monitoring - <i>Melinda Ronca-Battista, Univ. of Northern Arizona, Institute of Tribal Professionals</i></p> <p>Exploring A Pollution Event – <i>Glenn Gehring, TAMS Center</i></p> <p>The Southern Ute Indian Tribe Data Exploration and Evaluation Case Study - <i>Melinda Ronca-Battista, Univ. of Northern Arizona, Institute of Tribal Professionals</i></p> <p>Our Home Land – Our Air – <i>John Cox, Confederated Tribes of the Umatilla Indian Reservation</i></p>