

# National Ambient Air Monitoring Conference

## SUNDAY, AUGUST 10, 2014 –EARLY REGISTRATION

5:00pm – 7:00pm

Registration

## MONDAY, AUGUST 11, 2014 –TRAINING SESSIONS

7:00am – 8:00am

Registration

12:00pm – 5:00pm

Exhibitor Set Up

<p><b>Air Quality System (AQS) Room – M103-M105</b> <i>Robert Coats &amp; Chris Chapman – EPA/OAQPS</i></p> <p><b>8:00am – 12:00pm</b></p> <p><i>This full day training will provide a basic overview of EPA’s Air Quality Data System.</i></p> <p><i>The morning session will focus on understanding AQS and learning how to submit data.</i></p>	<p><b>Quality Assurance Training Room - Marquis A</b> <i>EPA/OAQPS Ambient Air Monitoring QA Team</i></p> <p><b>8:00am – 12:00pm</b></p> <p><i>This session will cover ambient air monitoring quality assurance requirements in 40 CFR Part 58 Appendix A for monitoring related to the NAAQS. Training will be provided on the quality control samples for each criteria pollutant including frequency of collection and reporting, the statistics for assessing data quality, and the assessment tools available including the Data Assessment Statistical Calculator, the AMP 256 Report and the AMP600 data Certification Evaluation &amp; Concurrence Report.</i></p>	<p><b>Best Practices for PM2.5 Continuous Monitoring Room – Marquis C</b> <i>Tim Hanley – EPA/OAQPS</i></p> <p><b>8:00am – 10:00am</b></p> <p><i>This session will cover: Program objectives, requirements, and flexibility. Designed for newer staff and those working to optimize their PM2.5 continuous monitoring program. Training will also provide detailed assessments of PM2.5 continuous monitors.</i></p> <p><b>Best Practices for PM Gravimetric Laboratory Room – Marquis C</b> <i>Greg Noah – EPA/OAQPS</i></p> <p><b>10:30am – 12:00pm</b></p> <p><i>This session will provide an overview of PM weighing laboratories. Content will include what a “healthy” lab looks like, how to assess and audit a lab, and tools used to assess a lab.</i></p>	<p><b>Air Toxics Training Room – Marquis D</b> <i>David Shelow – EPA/OAQPS</i></p> <p><b>8:00am – 12:00pm</b></p> <p><i>This session will include training on VOC analysis using the Entech pre-concentrator and a GC/MS, as well as canister cleaning and standards dilution practices</i></p>
<p><b>12:00pm – 1:30pm LUNCH – on your own</b></p>			
<p><b>Air Quality System (AQS) (Continued) Room – M103-M105</b> <i>Robert Coats &amp; Chris Chapman – EPA/OAQPS</i></p> <p><b>1:30pm – 5:00pm</b></p> <p><i>The afternoon session will focus on running reports, retrieving data, and providing an overview of other mechanisms that can be used to obtain AQS data.</i></p>	<p><b>Quality Assurance Training (Continued) Room – Marquis A</b> <i>EPA/OAQPS Ambient Air Monitoring QA Team</i></p> <p><b>1:30pm – 5:00pm</b></p> <p><i>This session will also include discussions on the Prevention of Significant Deterioration (PSD) QA, FEM competency requirements, the Field Operations Guidelines (FOG), use of new QA transactions &amp; case studies of recent challenges to data quality.</i></p>	<p><b>Data Analysis Tools Room – Marquis C</b> <i>Kevin Cavender &amp; Lewis Weinstock – EPA/OAQPS</i></p> <p><b>1:30pm – 5:00pm</b></p> <p><i>This session will cover:</i></p> <ul style="list-style-type: none"> <li>• <i>The recently updated VOCDAT tool for analyzing PAMS Data.</i></li> <li>• <i>The latest version of Real-Time AirNow Tech 2.1</i></li> </ul>	<p><b>Preparing a Useful 5-year Network Assessment Room- Marquis D</b> <i>Eric Stevenson (BAAQMD), Gail Good (WI DNR) &amp; Anna Kelley (SW Ohio Air Quality Agency)</i></p> <p><b>1:30pm – 5:00pm</b></p> <p><i>This session will cover perspectives on network plans and assessments from HQ, Regions and State/local personnel, as well as available tools. Majority of time will be spent on open discussion &amp; Q&amp;A’s on assessments.</i></p>

**National Ambient Air Monitoring Conference**  
**TUESDAY, AUGUST 12, 2014 –PLENARY SESSION – MARQUIS C&D**

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7:00am – 8:00am Registration and Refreshments

<b>8:00am - 8:15am</b>	<b>Welcome and Logistics</b> <i>OAQPS</i>
<b>8:15am – 8:30am</b>	<b>EPA Welcome &amp; NACAA Welcome</b> <i>Richard Wayland, Division Director, Air Quality Assessment Division, EPA Office of Air Quality Planning &amp; Standards</i> <i>Anna Kelley, NACAA</i>
<b>8:30am – 9:00am</b>	<b>NAAQS Updates and Monitoring Networks</b> <i>Lewis Weinstock, Group Leader, Ambient Air Monitoring Group, EPA Office of Air Quality Planning and Standards</i>
<b>9:00am – 9:30am</b>	<b>OAR Senior Management Perspective</b> <i>Janet McCabe, Assistant Administrator, EPA Office of Air and Radiation</i>
<b>9:30am – 10:00am</b>	<b>PAMS Reengineering Update</b> <i>Kevin Cavender, Ambient Air Monitoring Group, EPA Office of Air Quality Planning &amp; Standards</i>
<b>10:00am –10:30am</b>	<b>BREAK (Refreshments in Exhibit Areas)</b>
<b>10:30am – 11:15am</b>	<b>CHEMICAL SPECIATION NETWORK ASSESSMENT</b> <i>Beth Landis, Ambient Air Monitoring Group, EPA Office of Air Quality Planning &amp; Standards</i>
<b>11:15am – 12:00pm</b>	<b>FEATURED SPEAKER: The Many Research Applications of CSN Data</b> <i>Dr. Armistead “Ted” Russell ,Georgia Institute of Technology</i>
<b>12:00pm – 1:30pm</b>	<b>LUNCH – on your own</b>
<b>1:30pm – 2:30 pm</b>	<b>Update of Office of Research and Development’s Air Monitoring Methods Activities</b> <i>Tim Watkins, Acting Deputy Director, National Exposure Research Laboratory, EPA ORD</i>
<b>2:30pm – 3:00pm</b>	<b>Logistical Instructions for Afternoon (Refreshments in Exhibit Area)</b>
<b>3:00pm –5:00pm</b>	<b>PROGRAM BREAKOUT DISCUSSION CENTERS – MARQUIS A</b> <i>NCore – Tim Hanley &amp; Ken Buckley</i> <i>Monitoring Methods – Joann Rice &amp; Melinda Beaver</i> <i>CSN/IMPROVE – Beth Landis, Nicole Hyslip &amp; Gordon Pierce</i> <i>PAMS – Kevin Cavender &amp; Jason Low</i> <i>Near-road Monitoring – Neelson Watkins &amp; Chuck Turner</i> <i>Air Toxics – David Shelow &amp; Eric Stevenson</i> <i>Air Quality System – Robert Coats, Chris Chapman &amp; Grant Hetherington</i> <i>Quality Assurance – Michael Papp &amp; Scott Reynolds</i> <i>NGAM – Andrea Polidori &amp; Gayle Hagler</i> <i>CASTNET/Deposition Programs – Tim Sharac &amp; Melissa Puchalski</i> <i>Grants – Laurie Trinca &amp; Stuart Perry</i> <i>State and Local – Anna Kelley &amp; Gail Good</i>
<b>5:30pm – 7:00pm</b>	<b>Poster Session/Networking Reception – Exhibit Areas</b>

# National Ambient Air Monitoring Conference

WEDNESDAY, AUGUST 13, 2014 – TECHNICAL SESSIONS

7:00am – 8:00am

Registration and Refreshments

<b>8:00am – 10:00am Technical Sessions</b>			
<p><b>Chemical Speciation Room – Marquis A</b> <i>Beth Landis &amp; Will Wetherell</i></p>	<p><b>Air Toxics Room – Marquis C</b> <i>David Shelow &amp; Eric Stevenson</i></p>	<p><b>PAMS &amp; Meteorology Room – Marquis D</b> <i>Kevin Cavender &amp; Jason Low</i></p>	<p><b>Air Quality System (AQS) Room – M103-M105</b> <i>Robert Coats &amp; Chris Chapman</i></p>
<p><b>CSN &amp; IMPROVE Update</b> – <i>Beth Landis, EPA OAQPS &amp; Nicole Hyslip, UC Davis</i></p> <p><b>Investigating Missing Sources of Sulfur</b> – <i>Richard Peltier, Univ of Massachusetts</i></p> <p><b>Assessment of Measurement Error in CSN Data using Collocated Samplers</b>– <i>Kelsey Haddad, Washington University</i></p> <p><b>Intra-urban Variability of PM2.5 Components across Metropolitan St. Louis</b> – <i>Li Du, Washington University</i></p>	<p><b>Everything NATTS</b> – <i>Dave Shelow, EPA OAQPS</i></p> <p><b>NATTS QA</b>- <i>Greg Noah, EPA OAQPS &amp; Ian MacGregor, Battelle Memorial Institute</i></p> <p><b>NATTS Data Analysis</b> – <i>Liz Naess, EPA OAQPS</i></p> <p><b>Data Validation Templates for NATTS Pollutants</b> – <i>Stephanie McCarthy, EPA Region 4</i></p>	<p><b>PAMS AutoGC Evaluation</b> – <i>Kevin Cavender, EPA OAQPS</i></p> <p><b>Lessons Learned from the PAMS Program</b> – <i>Hilary Hafner, Sonoma Technology, Inc.</i></p> <p><b>PAMS Re-Engineering and the Local Agency</b> – <i>Jason Low, South Coast AQMD</i></p> <p><b>Revisions to PAMS Target List</b> – <i>Kevin Cavender, EPA OAQPS</i></p>	<p><b>This session will cover:</b></p> <p><b>Site and Monitor Metadata Configuration</b></p> <p><b>Agency Roles and Access Control</b></p> <p><b>Certification</b></p>
<b>10:00am – 10:30am BREAK (Refreshments in Exhibit Areas)</b>			
<b>10:30am – 12:00pm Technical Sessions</b>			
<p><b>Chemical Speciation (Cont) Room – Marquis A</b> <i>Beth Landis &amp; Will Wetherell</i></p> <p><b>Characterization of Coarse Aerosol in St. Louis and Phoenix: Results from EPA’s 2010-2011 Pilot Study</b> – <i>Jay Turner, Washington University</i></p> <p><b>Operating Experience with the Sunset Carbon Evaluation Project at the St. Louis, MO Site</b> – <i>Will Wetherell, MO DNR</i></p> <p><b>Improved Optical and Chemical Characterization Methods for PM2.5 Source Apportionment</b> – <i>Richard Tropp, Desert Research Institute</i></p>	<p><b>Air Toxics Room – Marquis C</b> <i>David Shelow &amp; Eric Stevenson</i></p> <p><b>Updates on EPA Method TO-11A</b> – <i>Ian MacGregor, Battelle Memorial Institute</i></p> <p><b>Evaluating the Collection Efficiency of Carbonyls Compounds utilizing TO-11A</b> – <i>Victoria Genter, Eastern Research Group</i></p> <p><b>Assessing the Feasibility of Measuring Carbonyls in Ambient Air with a Submillimeter Wave Spectroscopic Sensor</b> – <i>Chris Ball, Battelle Memorial Institute</i></p> <p><b>Characterizing the Short-term Temporal Stability of VOCs in Stainless Steel Canisters</b> – <i>Bob Lordo, Battelle Memorial Institute</i></p>	<p><b>PAMS &amp; Meteorology Room – Marquis D</b> <i>Kevin Cavender &amp; Jason Low</i></p> <p><b>Successful Implementation of an Alternative Co-located Transfer Standard Audit Approach: Continuous Deployment of CTS Wind Sensors on a Tall Tower</b> – <i>Kirk Stopenhagen, Vorticity Consulting</i></p> <p><b>Upper Air Meteorological Measurements: Why Do We Care and What Technology is Best for You?</b> – <i>Clinton MacDonald, Sonoma Technology, Inc.</i></p> <p><b>Investigating Improvements to Carbonyls Method</b> – <i>Dave Shelow, EPA OAQPS</i></p>	<p><b>Air Quality System (AQS) Room – M103-M105</b> <i>Robert Coats &amp; Chris Chapman</i></p> <p><b>This session is a continuation of the morning session; focusing on:</b></p> <p><b>Exceptional Events</b></p> <p><b>QA Transactions and Reports</b></p>
<b>12:00pm – 1:00pm LUNCH – on your own</b>			

# National Ambient Air Monitoring Conference

## 1:00pm – 3:00pm Technical Sessions

<p style="text-align: center;"><b>Next Generation Air Monitoring Room – Room – Marquis A</b> <i>Andrea Polidori &amp; Gayle Hagler</i></p>	<p style="text-align: center;"><b>Studies in Air Toxics Room – Marquis C</b> <i>David Shelow &amp; Stephanie McCarthy</i></p>	<p style="text-align: center;"><b>Quality Assurance Room – Marquis D</b> <i>Michael Papp &amp; Yousaf Hameed</i></p>	<p style="text-align: center;"><b>Air Quality System (AQS) Room – M103-M105</b> <i>Robert Coats &amp; Chris Chapman</i></p>
<p><b>Sensor Overview – Gayle Hagler, EPA ORD</b></p> <p><b>Practical and Demonstrated Uses of Low-Cost Sensors from Regulation to Education: The Rest of the Story – Tim Dye, Sonoma Technology, Inc.</b></p> <p><b>Community Air Sensor Network Project – Daniel Garver, EPA Region 4</b></p> <p><b>Evaluation of small sensor technology for criteria air pollutants at ground-based sites and a citizen science network – Rachele Duvall, EPA ORD</b></p>	<p><b>Calibrating Concern about PAHs in Urban Air Using Monitoring &amp; Modeling – Cassie McMahon, MN PCA</b></p> <p><b>Baldwin Hills Air Quality Study – Steve Brown, Sonoma Technology, Inc.</b></p> <p><b>Multiple Air Toxics Exposure Studies (MATES IV) – Jason Low &amp; Andrea Polidori, South Coast AQMD</b></p> <p><b>Spatial Patterns and Temporal Trends in Boston Black Carbon – George Allen, NESCAUM</b></p>	<p><b>Innovative Solutions to Keep the Aging PM2.5 FRM QA Process Current – Corey Mocka, NC DENR</b></p> <p><b>PEP PM2.5 Audits – Dennis Crumpler, OAQPS</b></p> <p><b>Continuous PM2.5 FRM/FEM Performance Evaluation – Cassie McMahon, MN PCA</b></p> <p><b>Evaluation of PM2.5 Bias (Follow up from Denver) – Shelly Eberly, Geometrics</b></p>	<p><b>This session is a continuation of the morning session; focusing on:</b></p> <p><b>AQS Support and Training</b></p> <p><b>AQS Data Handling “Under the Hood”</b></p> <p><b>Obtaining AQS Data</b></p>

## 3:00pm – 3:30pm BREAK (Refreshments in Exhibit Areas)

## 3:30pm – 5:30pm

<p style="text-align: center;"><b>Next Generation Air Monitoring Room – Marquis A</b> <i>Andrea Polidori &amp; Gayle Hagler</i></p>	<p style="text-align: center;"><b>Emerging Topics &amp; Technologies Room – Marquis C</b> <i>Joann Rice &amp; Dave Krask</i></p>	<p style="text-align: center;"><b>Quality Assurance (Cont) Room – Marquis D</b> <i>Dennis Crumpler, Mark Shanis &amp; Susan Kilmer</i></p>	<p style="text-align: center;"><b>Air Quality System (AQS) Room – M103-M105</b> <i>Robert Coats &amp; Chris Chapman</i></p>
<p><b>Performance Evaluation of a Low-Cost, Real Time Community Air Monitoring Station – Wan Jiao, EPA ORD</b></p> <p><b>Low cost sensors: Field Evaluations and Multi-sensor Approaches for Emissions Factors – Mike Bergin, Georgia Institute of Technology</b></p> <p><b>Use of Small Unmanned Aerial Vehicles or Air Quality and Meteorological Measurements – Robert Baxter, T&amp;B Systems</b></p> <p><b>Investigating Personal Exposures of Traffic Police in Kathmandu, Nepal: High Concentrations in the Himalayas – Richard Peltier, Univ of Massachusetts</b></p>	<p><b>An Evaluation of Robotic Optical Carbon Analysis on Teflon Filter Media – Paige Presler-Jur, Research Triangle Institute</b></p> <p><b>Speciated Reactive Nitrogen Measurements Using Chemiluminescence – Kevin Mishoe, AMEC</b></p> <p><b>Ambient Intercomparison of Direct and Indirect Methods of Ambient Nitrogen Dioxide – Melinda Beaver, EPA ORD</b></p> <p><b>Next Generation Aethalometer (TAPI 633): Update on Performance and Operation – George Allen, NESCAUM</b></p>	<p><b>Performance Evaluation of a Condensation Particle Counter near the I-710 Freeway in SoCal – Andrea Polidori, SCAQMD</b></p> <p><b>High Volume TSP Sampler Bias Shootout in South Coast AQMD – Jason Low, SCAQMD</b></p> <p><b>Upcoming Improvements to O3 Monitoring Methods, Networks &amp; Protocols – Will Ollison, American Petroleum Institute</b></p> <p><b>Through the Probe Auditing of Ambient Air Monitoring Instruments at Trace Levels: Current Capabilities (Part I) &amp; Evaluation and Comparison of an Alternative Method (Part II) – Avraham Teitz, EPA Region 2</b></p>	<p><b>This session is a continuation of the previous session; focusing on:</b></p> <p><b>AQS Status and Plans</b></p> <p><b>Questions and Answers</b></p>

## 3:30pm – 5:30pm

### Tribal Air Monitoring – Room M101

*Michael Papp, Chris Lee & Farshid Farsi*

**This session will include: Effective communication between EPA, States and Tribes; and The Tribal Air Monitoring Service Center (TAMS) activities; as well as the presentations below:**

**Building Tribal Partnerships with Low-cost Small Footprint Ambient Monitoring Sites – Melissa Puchalski, EPA OAP**

**Sensor Update – Rachele Duvall, EPA ORD**

**National Ambient Air Monitoring Conference**  
**THURSDAY, AUGUST 14, 2014 – PLENARY SESSION – MARQUIS C&D**

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**7:00am – 8:00am**

Registration and Refreshments

<b>8:00am – 9:00am</b>	<b>Field Operations – Issues and Tricks of the Trade</b> <i>Tim Hanley, Ambient Air Monitoring Group, EPA Office of Air Quality Planning &amp; Standards</i>
<b>9:00am – 10:00am</b>	<b>Region 4 – Community Air Sensor Network (CAIRSENSE) Project</b> <i>Daniel Garver &amp; Ryan Brown, EPA Region 4</i> <b>Region 5 – Experiences with Next Generation Technologies</b> <i>Motria Caudill &amp; Marta Fuoco, EPA Region 5</i>
<b>10:00am – 10:30am</b>	<b>BREAK (Refreshments in Exhibit areas )</b>
<b>10:30am – 11:00am</b>	<b>Air Toxics Overview</b> <i>David Shelow, Ambient Air Monitoring Group, EPA Office of Air Quality Planning &amp; Standards</i>
<b>11:00am – 12:00pm</b>	<b>Questions &amp; Answers with Monitoring Managers</b> <i>Richard Wayland, EPA Office of Air Quality Planning &amp; Standards</i> <i>Lewis Weinstock, EPA Office of Air Quality Planning &amp; Standards</i> <i>Robert Judge, EPA Region 1</i> <i>Craig Fitzner, Michigan Department of Environmental Quality</i> <i>Dan Johnson, Great Basin Unified Air Pollution Control District</i> <i>Ken Buckley, Georgia Department of Natural Resources</i>
<b>Thanks for Coming! See you in two years.</b>	