

National Ambient Air Monitoring Conference

2016 NATIONAL AMBIENT AIR MONITORING CONFERENCE

Hyatt Regency St. Louis at the Arch

August 8-11, 2016

AGENDA

SUNDAY, AUGUST 7, 2016 –EARLY REGISTRATION

5:00pm – 7:00pm Registration
 1:00pm – 7:00pm Exhibitor Set Up

MONDAY, AUGUST 8, 2016 –TRAINING SESSIONS

7:00am – 5:00pm Registration
 8:00am – 5:00pm Optional Trainings

8:00am – 12:00pm Training Sessions			
Park View	Grand D	Grand E	Grand FGH
<p>Air Quality System (AQS) <i>Robert Coats & Chris Chapman – EPA/OAQPS</i></p> <p>This training will cover: General Background and Definitions Submitting Data To AQS Batch Submission Process Editing Data w/AQS Forms Data Formats – Delimited vs XML Retrieving AQS Data Submitting QA Data – The QA Transaction Generator</p>	<p>Quality Assurance Training <i>EPA/OAQPS/Regions & Invited Speakers</i></p> <p>This training will cover ambient air monitoring quality assurance requirements in 40 CFR Part 58 Appendix A for monitoring related to the NAAQS including a summary of 2016 regulatory changes. Training will focus on quality control including: what to look for early and often, performance evaluation programs, technical systems audits and corrective actions, data quality assessments, and the assessment tools available to monitoring organizations; the data certification concurrence reporting.</p>	<p>PAMS Instrument Training <i>Kevin Cavender EPA/OAQPS</i></p> <p>This training will provide basic training for monitoring agencies on the recent changes to the PAMS requirements and on the types of equipment that will be needed at Core PAMS sites including auto-GCs, ceilometers, and true NO2.</p>	<p>PM2.5 Gravimetric Lab Training <i>Greg Noah & Stephanie McCarthy, EPA</i></p> <p>This training will focus on understanding/applying the PM2.5 FRM in 40 CFR Part 50, Appendix L and the updated QA Guidance Document 2.12. It is geared primarily for monitoring & QA managers and staff. Topics covered: Elements of the method and guidance along with their importance according to the method; the impact of data that fails method criteria and guidance; a “walk-through” of real laboratories/issues</p>
12:00pm – 1:30pm LUNCH – on your own			
1:30pm – 5:00pm Training Sessions			
<p>Air Quality System (AQS) (Continued) <i>Robert Coats & Chris Chapman – EPA/OAQPS</i></p> <p>Continuation of morning training.</p>	<p>Quality Assurance Training (Continued) <i>EPA/OAQPS/Regions & Invited Speakers</i></p> <p>Continuation of morning training.</p>	<p>Data Validation Training <i>Kevin Cavender & Beth Landis EPA/OAQPS</i></p> <p>Training will provide an overview of data validation for air monitoring data using EPA’s new Data Analysis and Reporting Tool (DART). DART is intended to assist monitoring agencies in analyzing and validating their PAMS, CSN, and other ambient monitoring data. 1:30-2:00pm – Introduction to Data Validation 2:00-2:30pm – CSN Specific Data Validation Techniques 2:45-4:30pm – DART training for PAMS and CSN 4:30-5:00pm AirNow Tech</p>	<p>Air Toxics Training <i>Dave Shelow, EPA/OAQPS</i></p> <p>This training will focus on understanding and applying the requirements of the recently revised National Air Toxics Trends Stations (NATTS) Technical Assistance Document (TAD)</p>

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TUESDAY, AUGUST 9, 2016 –PLENARY SESSION – Grand Ballroom

7:00am – 8:00am Registration

8:00am - 8:20am	Welcome and Logistics <i>Office of Air Quality Planning & Standards (OAQPS)</i>
8:20am – 8:45am	EPA Welcome & NACAA Welcome <i>Richard Wayland, Division Director, Air Quality Assessment Division, EPA Office of Air Quality Planning & Standards</i> <i>Sam Rubens, Co-Chair, NACAA Monitoring Committee</i>
8:45am – 9:30am	NAAQS Updates and Monitoring Networks <i>Lewis Weinstock, Ambient Air Monitoring Group, EPA Office of Air Quality Planning and Standards</i>
9:30am – 10:00am	Are We There Yet? Ongoing Needs for Air Quality Monitoring in Health Effects Research <i>Katherine Walker, Health Effects Institute</i>
10:00am –10:30am	BREAK
10:30am – 11:00am	EPA Sensors Update <i>Gayle Hagler, Office of Research and Development (ORD)</i>
11:00am – 12:00pm	FEATURED SPEAKER: Street View Air Quality Project <i>Karin Tuxen-Bettman, Google</i>
12:00pm – 1:30pm	LUNCH – on your own
1:30pm – 2:30 pm	Discover-AQ Study, Denver Colorado <i>Russell Long, Office of Research and Development</i> <i>James Szykman, Office of Research and Development</i> <i>William Vicars, Colorado Department of Public Health and Environment</i>
2:30pm – 2:45pm	Logistical Instructions for Afternoon
2:45pm – 3:00pm	BREAK
3:00pm –5:00pm	PROGRAM BREAKOUT DISCUSSION CENTERS – Mills Studio Rooms <ol style="list-style-type: none"> 1. Ozone/PAMS – Joann Rice, Kevin Cavender & Dave Krask 2. Air Toxics – Dave Shelow & Eric Stevenson 3. Sensors – Gayle Hagler & Andrea Polidori 4. Speciation Networks – Beth Landis & Dirk Felton 5. NCore/PM Mass – Tim Hanley & Jeff Francis 6. SO2 Data Requirements – Nealson Watkins & Chuck Turner 7. Resources/Grants – Laurie Trinca & Heidi Hales 8. State/Local Issues – Anna Kelley & Karen Mongoven 9. Quality Assurance – Mike Papp & Katherine Hoag <p style="text-align: center;">Air Quality System – Robert Coats, Chris Chapman & Michael Brooks Park View State Department – Landon Van Dyke & Cherie Brown Plenary Grand Ballroom</p>
5:30pm – 7:00pm	Poster Session/Networking Reception – Exhibit Areas

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WEDNESDAY, AUGUST 10, 2016 – TECHNICAL SESSIONS

8:00am – 10:00am Technical Sessions			
Grand D	Grand E	Grand FGH	Park View
<p>Chemical Speciation <i>Beth Landis & John Gowins</i></p> <p>8:00-8:30am – Speciation Network Update and Overview – <i>Beth Landis</i></p> <p>8:30am–9:00am – Changes in CSN Uncertainty Calculations and Impacts on Reporting – <i>Nicole Hyslop</i></p> <p>9:00-9:30am – Recent Changes to the IMPROVE and CSN Organic Artifact Adjustment Method – <i>Ann Dillner</i></p> <p>9:30-10:00am – Filter Transmittance Measurements: Experience with IMPROVE and Plans for CSN – <i>Warren White</i></p>	<p>Air Toxics <i>Dave Shelow & Eric Stevenson</i></p> <p>8:00-8:25am – NATTS Assessment #2 – <i>Regi Oommen</i></p> <p>8:25-8:50am - The Challenge of Analyzing Ambient Air Toxics Measurements – <i>Madeleine Strum</i></p> <p>8:50-9:15am - Update on Optimization of TO-11A for the Measurement of Carbonyls in Ambient Air – <i>Ian MacGregor</i></p> <p>9:15-9:40am - Sensitivity Enhancement for Trace Detection of Carbonyls by Sub-millimeter Wave Spectroscopy – <i>Christopher Ball</i></p> <p>9:40-10:00am – Determining MDLs for VOCs in Canisters to Meet NAATS Requirements – <i>Mike Liadis</i></p>	<p>Sensors and Other Emerging Technologies <i>Jenia McBrian-Tufts & Andrea Polidori</i></p> <p>8:00-8:25am - Results and Lessons Learned from using Low-cost PM Sensors to Detect Ambient PM2.5 and PM10 – <i>Tim Dye</i></p> <p>8:25-8:45am - Solar Power and Ambient Monitoring – <i>Bryan Bibeau</i></p> <p>8:45-9:10am - Practical Considerations for Citizen Science Studies – <i>Avraham Teitz</i></p> <p>9:10-9:35am - CAIRSENSE Study: Real-world Evaluation of low cost sensors in Denver, CO – <i>Neil Feinberg</i></p> <p>9:35-10:00am - Piloting Short-term Sensor Messaging and Results of a PM2.5 Sensor Study – <i>Kristen Benedict</i></p>	<p>Air Quality System (AQS) <i>Robert Coats, Chris Chapman & Michael Brooks</i></p> <p>8:00-9:00am – Maintaining Site and Monitor Metadata – <i>Robert Coats</i></p> <p>9:00-9:30am – Access Control and User Authentication – <i>Chris Chapman</i></p> <p>9:30-10:00am – Exceptional Event Handling – <i>Chris Chapman</i></p>
10:00am – 10:30am BREAK			
10:30am – 12:00pm Technical Sessions			
<p>Chemical Speciation <i>Beth Landis & John Gowins</i></p> <p>10:30-11:00am – CSN Data Processing and Validation Techniques – <i>Sean Raffuse</i></p> <p>11:00-11:30am – DART for CSN – <i>Jennifer DeWinter</i></p> <p>11:30-12:00pm – CSN & IMPROVE Mega PE Program Update – <i>Jenia McBrian-Tufts</i></p>	<p>Air Toxics Community Studies <i>David Shelow</i></p> <p>10:30-10:55am – The Memphis Air Toxics Study – <i>Chunrong Jia, Jim Holt and Larry Smith</i></p> <p>10:55-11:20 – Adapting Sampling, Cleaning & Analytical Methods for Low-Level Detection of VOCs at WIPP – <i>Praveen Srirama</i></p> <p>11:20-11:40am – Performance of Labs Undertaking VOCs in Air Analysis using Thermal Desorption – <i>Owen Butler</i></p> <p>11:40-12:00pm – Upper Green River Basin, WY Oil Field Disposal Pond Study-<i>Cara Keslar</i></p>	<p>State/Local Challenges (Tips and Tricks) <i>Tim Hanley & Anna Kelley</i></p> <p>Thermo 2025i - <i>Yousaf Hameed</i></p> <p>Variability in BAM1020 Zero Background Tests and Implications on Ambient Data – <i>Bryan Paris</i></p> <p>Cost Effective Procedures to Perform Negative Bias Challenges to VOC, Carbonyl Samplers and Metals Samplers in the Air Toxics & PAMS</p> <p>Dynamic Dilution Systems for the Negative Bias Testing of VOC Systems and Acceptable Criteria</p> <p>Audience Discussion</p>	<p>Air Quality System (AQS) <i>Robert Coats, Chris Chapman & Michael Brooks</i></p> <p>10:30-11:00am – Annual Data Certification – <i>Michael Brooks</i></p> <p>11:00-12:00pm – Working with QA Data, including the QA Transaction Generator – <i>Chris Chapman</i></p>
12:00pm – 1:00pm LUNCH – on your own			

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1:00pm – 3:00pm Technical Sessions			
Grand D	Grand E	Grand FGH	Park View
<p style="text-align: center;">Chemical Speciation <i>Joann Rice & Cara Keslar</i></p> <p>1:00-1:30pm – Assessing the Statistical Relationship in Carbon Measurements Between Differing Sampling and Analysis Protocols in the CSN – <i>Robert Lordo</i></p> <p>1:30-2:15pm – Using a Non-destructive, Inexpensive Method to Characterize Carbonaceous PM in CSN and IMPROVE – <i>Ann Dillner</i></p> <p>2:15-3:00pm – Upgrades and Changes in the IMPROVE Network – <i>Nicole Hyslop</i></p>	<p style="text-align: center;">PAMS/Meteorology <i>Kevin Cavender & Katherine Hoag</i></p> <p>1:00-1:30pm – Overview of PAMS Changes – <i>Kevin Cavender</i></p> <p>1:30-2:00pm – EMP’s A Maryland Perspective - <i>Dave Krask</i></p> <p>2:00-2:30pm – Overview of PAMS QA Implementation Plan - <i>Mike Papp</i></p> <p>2:30-3:00pm – Reviewing the Benefits of PAMS Measurements in the South Central U.S. - <i>Mark Sather</i></p>	<p style="text-align: center;">Quality Assurance <i>Dennis Crumpler & Yousaf Hameed</i></p> <p>1:00-1:30pm – Verifying Zero Air Sources in an Ambient Air Gaseous Monitoring Network – <i>Yousaf Hameed</i></p> <p>1:30-2:00pm – Quality Control for Ambient Monitoring at Trace Levels of O3, Nox, SO2 and CO – <i>Avraham Teitz</i></p> <p>2:00-2:30pm – Obtaining New 1-point QC Levels – <i>Gary Ensminger</i></p> <p>2:30-3:00pm – Using Analyzer Meta-Data for Automated Troubleshooting – <i>Joel Craig and Sam Michie</i></p>	<p style="text-align: center;">Air Quality System (AQS) <i>Robert Coats & Chris Chapman</i></p> <p>1:00-1:30pm – Data and Metadata: Monitoring Regulations to National Databases – <i>Tim Hanley</i></p> <p>1:30-2:00pm – AQS Under the Hood – <i>Robert Coats</i></p> <p>2:00-2:30pm – Obtaining AQS Data – <i>Chris Chapman</i></p> <p>2:30-3:00pm – AQS User Support – <i>Michael Brooks</i></p>
3:00pm – 3:30pm BREAK			
3:30pm – 5:30pm Technical Sessions			
<p style="text-align: center;">Chemical Speciation <i>Joann Rice & Cara Keslar</i></p> <p>3:30-4:00pm – Impact of Ambient Fine PM Carbon Measurement Methods on Observed Association with Acute Cardiorespiratory Morbidity – <i>Jay Turner</i></p> <p>4:00-4:30pm – Testing Assumptions of Mass Reconstruction Methods to Evaluate and Interpret PM Chemical Speciation – <i>Judy Chow</i></p> <p>4:30-5:00pm – Source Apportionment of Background PM2.5 at Cheeka Peak Atmospheric Observatory – <i>Odelle Hadley</i></p> <p>5:00-5:30pm – Climatology of PM10 Metals in St. Louis from Hourly Data – <i>Jay Turner</i></p>	<p style="text-align: center;">PAMS/Meteorology <i>Kevin Cavender & Katherine Hoag</i></p> <p>3:30-4:00pm – DART and PAMS <i>Steve Brown</i></p> <p>4:00-4:30pm – PAMS Auto GC: Monitoring Network Performance for NMHCs Across 35 Monitors in Texas - <i>Carol Meyer</i></p> <p>4:30-5:00pm – Report out on Auto GC Evaluation – <i>Kevin Cavender</i></p> <p>5:00-5:30pm – Assessment of NOy and True NO2 Measurements – <i>Tim Hanley</i></p>	<p style="text-align: center;">Quality Assurance (Cont) <i>Greg Noah & Jeff Francis</i></p> <p>3:30-4:00pm – Five-Year Regional Network Assessment – <i>Donna Kenski</i></p> <p>4:00-4:3pm – A Cautionary Example Demonstrating the Importance of Quality Systems in NAAQS Decision Making – <i>Doug Jager</i></p> <p>4:30-5:00pm – EPA’s Filter Media Procurement and Acceptance Testing Program – <i>David Elam and Melita Lihzis</i></p> <p>5:00-5:30pm – A Systematic Approach to Data Verification & Validation - <i>Linda Morckel</i></p>	<p style="text-align: center;">Air Quality System (AQS)</p> <p>3:30-4:30pm – AQS Status and Future Plans – <i>Robert Coats</i></p> <p>4:30-5:30pm – I Wish AQS Would..... – <i>Michael Brooks</i></p>
<p>3:30pm – 5:30pm Tribal Air Monitoring – Regency B (2nd floor) <i>Farshid Farsi & Melinda Ronca-Battista</i></p> <p>3:40-4:05pm – Quick Draw Tribal Data Toolbox – <i>Melinda Ronca-Battista</i></p> <p>4:05-4:30pm – Ozone Monitoring: A Basic Through the Probe System Configuration – <i>Glenn Gehring</i></p> <p>4:30-4:55pm – Building Tribal Partnerships with Low-cost Small Footprint Ambient Monitoring Sites – <i>Melissa Puchalski</i></p> <p>4:55-5:25pm – Santa Rosa Rancheria Air Monitoring Station – <i>Jason Sisco</i></p>			

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THURSDAY, AUGUST 11, 2016 – PLENARY SESSION – Grand Ballroom

8:00am – 8:45am	Near-road Monitoring Update & SO2 Data Requirements Rule <i>Nealson Watkins, EPA Office of Air Quality Planning & Standards</i>
8:45am – 9:30am	Air Toxics Update <i>Dave Shelow, EPA Office of Air Quality Planning & Standards</i>
9:30am – 10:30am	2015 Air Quality Trends and other Innovative Visualization Tools <i>Liz Naess, EPA Office of Air Quality Planning & Standards</i>
10:30am – 11:00am	BREAK
11:00am – 12:00pm	Air Monitoring Crystal Ball – What’s ahead for Monitoring Programs
8:00am - 12:00pm Concurrent Session - AQS Training – Park View	
THANK YOU!	