



2018 NATIONAL AMBIENT AIR MONITORING CONFERENCE
Marriott Portland Downtown Waterfront
August 13-16, 2018

PRELIMINARY AGENDA

SUNDAY, AUGUST 12, 2018 –EARLY REGISTRATION

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

MONDAY, AUGUST 13, 2018 –TRAINING SESSIONS

7:00am – 5:00pm Registration
 7:00am – 5:00pm Exhibit Hall open
 8:00am – 5:00pm Optional Trainings

8:00am – 12:00pm Training Sessions

8:00am – 12:00pm Training Sessions			
<p>Air Quality System (AQS) <i>Chris Chapman, Michael Brooks & Stuart Gray</i></p> <p>This training will cover: General Background and Definitions Monitoring Regulations (Part 50 and Part 58) as they relate to AQS Submitting Data to AQS Batch Submissions Data Formats (Delimited, XML) AQS Forms (Edit and creating data) Retrieving AQS Data Submitting QA Data to AQS QA Transaction Generator</p>	<p>Quality Assurance 101 Training <i>EPA/OAQPS/Regions & Invited Speakers</i></p> <p>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 focus on the regulatory requirements, quality control, performance evaluation programs, technical systems audits/corrective actions, data quality assessments/ assessment tools available to monitoring organizations, the data certification concurrence process and typical QA issues EPA observes during systems audits.</p>	<p>PAMS Classroom Lessons <i>Kevin Cavender</i></p> <p>8:00-8:30 Intro/Summary of PAMS requirements 8:30-10:00 Summarize Technical Assistance Document (TAD) & Quality Assurance Project Plan (QAPP) 10:00-10:30 Intro to Auto GC 10:30-11:00 Intro to Ceilometer 11:00-12:00 EMP training</p>	<p>Ambient Monitoring & Methods <i>Tim Hanley and Lewis Weinstock</i></p> <p>8:00-10:00 Basics This training is geared towards new staff and others that would like to learn the basics of ambient air monitoring for PM and gases. Training will be conducted through presentation slides and Q&A.</p> <p>10:00-12:00 Advanced This training will cover advanced topics for PM continuous methods and gas monitoring. Training for PM continuous methods will include best practices and assessments through presentation slides and Q&A. Training for gas monitoring methods will be supplemented through hands on demonstration by instrument manufacturers. Topics may include Gas Phase Titration (GPT), low-level audits, and the latest in nitrogen methods.</p>

12:00pm – 1:30pm LUNCH – on your own

1:30pm – 5:00pm Training Sessions

<p>Air Quality System (AQS) (Continued) <i>Chris Chapman, Michael Brooks & Stuart Gray</i></p> <p>Continuation of morning training.</p>	<p>Quality Assurance 101 Training <i>EPA/OAQPS/Regions & Invited Speakers</i></p> <p>Continuation of morning training.</p>	<p>PAMS Hands on Lessons <i>Kevin Cavender and Equipment Vendors</i></p> <p>1:30–2:30 CAS Auto GC</p> <p>2:30-3:30 Markes Agilent Auto GC</p> <p>3:30-4:30 Vaisala Ceilometer</p> <p>4:30-5:00 TO 11A</p>	<p>1:30-3:30 Network Design & Assessment 101 <i>Lewis Weinstock & Ben Wells</i></p> <p>This session will cover the strategies needed to design an effective ambient network, including information on the development of annual network plans and 5-year assessments from HQ, Regions and State/local perspectives. New analytical tools under development for the 2020 assessment will be demonstrated.</p> <p>3:30-5:00 What’s on the Horizon <i>Eric Stevenson & Jason Low</i></p> <p>Participants will discuss new techniques, methodologies and requirements. Topics will include a discussion of the requirements of California’s Assembly Bill 617 that require focusing on disproportional community impacts; partnership of New York City’s department of health and monitoring, and other topics once identified.</p>
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TUESDAY, AUGUST 14, 2018 – PLENARY SESSION

7:00am – 5:00pm Registration open
 7:00am – 7:00pm Exhibit Hall open

8:00am - 8:30am	Welcome and Logistics <i>Office of Air Quality Planning & Standards (OAQPS)</i>
8:30am – 9:00am	AAPCA & NACAA Welcome <i>NACAA Monitoring Committee Representative</i> <i>DeAnna Oser, Georgia EPD, AAPCA Representative</i>
9:00am – 9:30am	EPA Welcome & 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	OAR Strategic Plan <i>Clint Woods, Deputy Assistant Administrator, Office of Air and Radiation</i>
10:00am –10:30am	BREAK
10:30am – 11:00am	ORD Update <i>Gayle Hagler, Assistant Lab Director for ACE, National Exposure Research Lab, ORD</i>
11:00am – 12:00pm	FEATURED SPEAKER: Oregon Department of Environmental Quality
12:00pm – 1:30pm	LUNCH – on your own
1:30pm – 2:30 pm	Sensors Presentation <i>Andrea Polidori, South Coast Air Quality Management Division</i>
2:30pm – 2:40pm	Logistical Instructions for Afternoon
2:40pm – 3:00pm	BREAK
3:00pm – 4:30pm	REGIONAL MEET and GREET – State, Local and Tribal Agencies can take this opportunity to meet their EPA Regional Representatives. <ol style="list-style-type: none"> 1. Region 1 Meet and Greet 2. Region 2 Meet and Greet 3. Region 3 Meet and Greet 4. Region 4 Meet and Greet 5. Region 5 Meet and Greet 6. Region 6 Meet and Greet 7. Region 7 Meet and Greet 8. Region 8 Meet and Greet 9. Region 9 Meet and Greet 10. Region 10 Meet and Greet
5:00pm – 7:00pm	Poster Session/Networking Reception – Exhibit Area

WEDNESDAY, AUGUST 15, 2018 – TECHNICAL SESSIONS

7:00am – 5:00pm Registration open
 7:00am – 7:00pm Exhibit Hall open

8:00am – 10:00am Technical Sessions			
<p style="text-align: center;">Air Toxics Methods <i>David Shelow & Deanna Oser</i></p> <p>8:00-8:25 Update on the Optimization of EPA Method TO-11A – <i>Ian MacGregor</i></p> <p>8:25-8:50 Application of Proton Transfer Reaction Mass Spectrometry for Trace VOC Monitoring – <i>Joe Sears</i></p> <p>8:50-9:15 Hexavalent Chromium in Ambient Air: A Practical Guide to ASTM D7614-12 – <i>Sheri Heldstab</i></p> <p>9:15-9:40 Using CFC's as in-situ Surrogates for TO-15 – <i>Wayne Whipple</i></p> <p>9:40-10:00 Update on Method TO-15A – <i>David Shelow</i></p>	<p style="text-align: center;">CSN Data Validation & DART <i>Joann Rice & Matt Harper</i></p> <p>Data Validation and DART Training Presentations</p>	<p style="text-align: center;">PAMS <i>Kevin Cavender & Kristy Weber</i></p> <p>8:00-8:30 Introduction to PAMS & Program Update – <i>Kevin Cavender</i></p> <p>8:30-9:00 Overview of TAD and Model QAPP – <i>Doug Turner</i></p> <p>9:00-9:30 Designing an EMP in the OTR – <i>Bob Judge</i></p> <p>9:30-10:00 Reviewing Progress in Meeting the 8-Hr Ozone Standard in the South-Central US Through Evaluation of Historical & Current PAMS Measurements – <i>Mark Sather</i></p>	<p style="text-align: center;">Air Quality System (AQS) <i>Chris Chapman, Michael Brooks & Stuart Gray</i></p> <p>8:00-9:00 Site & Monitor Metadata</p> <p>9:00-9:30 User Registration, Access & Authentication</p> <p>9:30-10:00 AQS Status & Plans</p>
10:00am – 10:30am BREAK			
10:30am – 11:45 am Technical Sessions			
<p style="text-align: center;">Air Toxics Community Studies <i>David Shelow & Deanna Oser</i></p> <p>10:30-10:55 Local Tools for Addressing Air Quality Concerns Around Oil & Gas – <i>Morgan Hill</i></p> <p>10:55-11:20 Challenges of Designing an Affordable Monitoring Network for Community Air Toxics – <i>Katie Kolesar</i></p> <p>11:20-11:45 Field Study of Online Monitoring Network of Air Toxics & Tracking near Petrochemical Industrial Park – <i>Yu-Cheng Chen</i></p>	<p style="text-align: center;">Speciation <i>Joann Rice & Matt Harper</i></p> <p>10:30-10:55 Continuity of the CSN Data – <i>Warren White</i></p> <p>10:55–11:20 IMPROVE Monitoring Network Overview – <i>Nicole Hyslop</i></p> <p>11:20-11:45 Interlaboratory Comparison of CSN Measurements – <i>Nicole Hyslop</i></p>	<p style="text-align: center;">PAMS <i>Kevin Cavender & Kristy Weber</i></p> <p>10:30-10:55 Mixing Layer Height Retrieval Using Aerosol Backscatter from Commercial Ceilometers – <i>Vanessa Caicedo</i></p> <p>10:55-11:20 - Evaluation of Continuous Formaldehyde Measurements – <i>Andrew Whitehill</i></p> <p>11:20-11:45 - Development of a field portable submillimeter wave sensor prototype for real time detection of formaldehyde – <i>Christopher Ball</i></p> <p>11:45-12:10 - On-Line Monitoring of VOCs & characteristics of Concentrations in Shanghai, China – <i>Shan Zang</i></p>	<p style="text-align: center;">Air Quality System (AQS) <i>Chris Chapman, Michael Brooks & Stuart Gray</i></p> <p>10:30-11:15 AQS User Support</p> <p>11:15-11:45 FAQs from AQS First Level Support (a/k/a how to do things that our first line support gets asked frequently)</p>
11:45am – 1:15pm LUNCH – on your own			

1:15pm – 3:15pm Technical Sessions

<p>Air Toxics Community Studies <i>Dave Shelow</i></p> <p>1:15-1:40 Monitoring for Chloroprene in LaPlace, LA; From NATA to Now – Frances Verhalen</p> <p>1:40-2:05 Passive Benzene Sampling in a Community Monitoring Study – <i>Erica Shipley</i></p> <p>2:05-2:30 A Community Focused Near Road Study in Seattle’s Chinatown International District – <i>Phil Swartzendruber</i></p> <p>2:30–2:55 Integrated Method of Combining Fixed and Mobile Stations for Air Pollution Tracking and Reduction Assessment - <i>Chung-Liang Tai & Hung-Teh Tsai</i></p>	<p>QAPPs & QC Discoveries <i>Stephanie McCarthy & Melinda Ronca-Battista</i></p> <p>1:15-1:45 Ambient Air Monitoring QAPP Guide – Stephanie McCarthy 1:45-2:05 Florida DEP QAPP Experience – <i>Saphique Thomas</i></p> <p>2:05-2:25 QAPPs – <i>Melinda Ronca-Battista</i></p> <p>2:25-2:50 Gaseous Performance Audit Evaluations at Low Concentration Levels – <i>Richard Payton</i></p> <p>2:50-3:15 Assessments of the Trace Level Ambient Gaseous Monitors – <i>Ranjit Bullar</i></p>	<p>Sensors and Other Emerging Technologies <i>Joann Rice & Kristen Benedict</i></p> <p>1:15-1:45 Denver Real Time, Hyper-local Air Sensor Monitoring – <i>Michael Ogletree</i> 1:45-2:15 Creating a Network of low-cost, field deployable sensors to characterize regional dust sensitivity – <i>Katie Kolesar</i></p> <p>2:15-2:45 Air Sensors: 7 Projects and 7 Outcomes from Organizations using sensors around the world – <i>Tim Dye</i></p> <p>2:45-3:15 Can regulatory agencies use low-cost sensors to supplement higher cost PM sampling methods? <i>Lance Giles</i></p>	<p>Air Quality System (AQS) <i>Chris Chapman, Michael Brooks & Stuart Gray</i></p> <p>1:15-1:45 Monitoring Issues</p> <p>1:45-2:15 AQS Under the Hood</p> <p>2:15-2:45 Obtaining AQS Data</p> <p>2:45-3:15 Changes to AQS Reports</p>

3:15pm – 3:45pm BREAK

3:45pm – 5:30pm Technical Sessions

<p>National Air Toxics Trends Sites <i>David Shelow</i></p> <p>3:45-4:10 Performance Visualization of the NATTS Network – New Ways of Seeing the Data – <i>Michael Schlatt</i></p> <p>4:10-4:35 Sampler Certification for NATTS – <i>Randy Bower</i></p> <p>4:35-5:00 Use of Air Data in Health Consultants by the Agency for Toxic Substances and Disease Registry (ATSDR) and State/Local Health Agencies – <i>Motria Caudill</i></p> <p>5:00-5:25 Effective Auditing for Air Monitoring Programs – Lesson Learned from NATTS Technical Systems Audits – <i>Doug Turner</i></p>	<p>TIPS and TRICKS & General Discussion <i>Tim Hanley</i></p>	<p>Sensors and Other Emerging Technologies <i>Joann Rice & Kristen Benedict</i></p> <p>3:45-4:15 Using low-cost sensor networks to mitigate pollution risks to the community – <i>Patrick Clark</i></p> <p>4:15-4:45 Sensor Comparison to Oregon DEQ Monitoring Station – <i>Jodi Lee</i></p> <p>4:45-5:15 Approaches to Sensor Calibration – <i>Hilary Hafner</i></p> <p>5:15-5:30 Open Discussion</p>	<p>Air Quality System (AQS) <i>Chris Chapman, Michael Brooks & Stuart Gray</i></p> <p>3:45-5:00 I wish AQS would....</p>	<p>Tribal Air Monitoring <i>Farshid Farsi</i></p> <p>Craig Kreman-Quapaw Nation, Lead Superfund clean up</p> <p>Joe Cebe-Forrest County Potawatomi, Class 1 Designation</p> <p>Stan Belone-Comprehensive PM2.5 monitoring program, Salt River Pima Maricopa Indian Community (SRPMIC)</p>

THURSDAY, AUGUST 16, 2018 – TECHNICAL SESSION

7:00am – 2:00pm

Registration open

7:00am – 10:30am

Exhibit Hall open

8:00am – 10:00am Technical Sessions

Quality Assurance TSA Training <i>QA Team</i>	Topical Open Discussions	Data Visualization & Data Analysis <i>Liz Naess</i>	Air Quality Special Studies <i>Nealson Watkins</i>
<p>8:00-8:15 You Found What? Images from Real TSAs (Round 1)</p> <p>8:15-9:00 TSA Overview – A Look at the TSA Process and TSA Guidance Document (Part 1)</p> <p>9:00-9:10 Quick Break</p> <p>9:10-9:40 TSA Overview – A Look at the TSA Process and TSA Guidance Document (Part 2)</p> <p>9:40-10:00 What's Wrong with this Picture?</p>	<p>8:00-8:30 PAMS Program</p> <p>8:30-9:00 CASTNET Program</p> <p>9:00-9:30 Air Toxics</p> <p>9:30-10:00 State and Local Issues</p>	<p>A Desktop Application Used To Perform Data QA/AC With AQS Output – <i>Kristy Weber</i></p> <p>Using ArcGIS to map 5-minute intervals of meteorological and ozone data – <i>James Boyle</i></p> <p>Using the R Statistical Language for Air Quality Data Analysis and Visualization – <i>Nathan Pavalovic</i></p>	<p>8:00-8:24 Wildland Fire Smoke - Long Range Enhances Ozone in SE US – <i>Nathan Pavalovic & Dan Jaffee</i></p> <p>8:24-8:48 Source Attribution using VOC Measurements to Assess Air Quality Impacts at 5 National Parks – <i>Barkley Sive</i></p> <p>8:48-9:12 Exceptional Wildfire Events and their Effect on Ozone Formation in the Olympic Peninsula – <i>Odelle Hadley</i></p> <p>9:12-9:36 Recent Particulate Matter Monitoring Enhancement in Imperial Valley – <i>Michael Miguel</i></p> <p>9:36-10:00 Kansas City Transportation & Local Air Quality Study – <i>Stephen Krabbe</i></p>

10:00am – 10:30am BREAK

10:30am – 12:00pm Technical Sessions

Quality Assurance TSA Training (Cont.)	Topical Open Discussions (Cont.)	Data Visualization & Data Analysis (Cont.)	Air Quality Special Studies (Cont.)
<p>10:30-10:45 You Found What? Images from Real TSAs (Round 2)</p> <p>10:45-11:15 Implementing TSAs in your Organization</p> <p>11:15-11:30 TSA Resources</p> <p>11:30-12:00 Wrap up and Questions</p>	<p>10:30-11:00 NCore/PM Mass</p> <p>11:00-11:30 Grants</p> <p>11:30-12:00 Any topic you want</p>	<p>Exploring the performance of machine learning algorithms in short-term forecasting of PM2.5 – <i>Rao Meenakshi</i></p> <p>AirNow Tech – <i>Marcus Hylton</i></p>	<p>10:30-11:00 LongTerm Assessment of Sunset OC/EC with CSN measurements – <i>Steve Brown</i></p> <p>11:00-11:30 The Chesapeake Bay Air Quality Study – <i>Joel Dressen & Michael Woodman</i></p> <p>11:30-12:00 Elemental Characterization of PM2.5 and PM10 in Dense Traffic Areas in Toronto and Vancouver, Canada – <i>Valbona Celo</i></p>

12:00pm – 1:00pm – LUNCH

THURSDAY, AUGUST 16, 2018 – CLOSING PLENARY SESSION

1:00pm – 1:45pm	Characterizing Air Quality in a Changing World: The Emergence of Sensors <i>Kristen Benedict, EPA, Air Quality Assessment Division</i>
1:45pm – 2:30pm	Fire Side Chat with Air Monitoring Managers from EPA, AAPCA and NACAA
THANK YOU!	

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