



2022 NATIONAL AMBIENT AIR MONITORING CONFERENCE

David L. Lawrence Convention Center – Pittsburgh, PA

August 22-25, 2022

AGENDA

SUNDAY, AUGUST 21, 2022 –EARLY REGISTRATION

5:00pm – 7:00pm Registration

MONDAY, AUGUST 22, 2022 –TRAINING SESSIONS

7:00am – 5:00pm Registration
 8:00am – 5:00pm Optional Trainings
 1:00pm – 7:00pm Exhibitor Set Up

8:30am – 12:00pm Training Sessions

ROOM: 315-316	ROOM: 317-318	ROOMS: TBD	ROOM :303-304
AIR QUALITY SYSTEM (AQS) <i>Robert Coats</i>	QUALITY ASSURANCE <i>EPA/OAQPS/Regions and invited speakers</i>	Vendor-led Training - PM <i>Various</i>	PAMS <i>EPA staff and invited speakers</i>
<p>There will be a maximum of 60 attendees, that will be required to work in pairs. Training will involve both lectures and hands-on exercises.</p> <p><u>Ambient Air Monitoring Background</u></p> <p><u>General description of AQS and its operation, including the AQS Data Mart</u></p> <p><u>User-IDs and Security:</u> AQS user-ids Exchange Network user-ids Data Mart user-ids New user registration and the EPA Gateway Security Roles and Access Control</p> <p><u>The AQS Forms User Interface</u></p>	<p>8:30am Basic QA 101</p> <p>9:00am Data Validation Guidance</p> <p>9:45 Break</p> <p>10:00am Ozone TAD</p> <p>10:45am Equipment & Processes – a walk-through</p> <p>11:30am Open forum - questions and answers</p>	<p>8:30am Welcome and overview of vendor-led training period – Tim Hanley (EPA)</p> <p>Participating vendors of PM equipment will be set up in individual rooms to provide overviews of their hardware and engage on instrument operations, including: <i>Principles of operation, Operational processes, User interfaces, Maintenance routines, and Troubleshooting. Plus, vendors specific topics.</i></p> <p>Durag (Grimm) – Room 308</p> <p>Teledyne-API – Room 406</p> <p>Thermo Fisher – Room 301-302</p> <p>Magee – Room 309</p> <p>MetOne – Room 305</p>	<p>8:30am Programmatic update – Corey Mocka (EPA)</p> <p>8:45am PAMS Dart and Dashboard Demo - Jennifer DeWinter & Ningxin Wang (STI)</p> <p>9:15am Auto-GC Overview – Doug Turner (Battelle)</p> <p>9:45am Ceilometry – Ruben Delgado (UMBC)</p> <p>10:15am BREAK</p> <p>10:45am PAMS planning, measurements, and data validation – Carol Meyer (Orsat) & Doug Turner (Battelle)</p> <p>11:15am PAMS QA – Doug Turner (Battelle)</p> <p>11:45am Open Forum</p>

12:00pm – 1:30pm

LUNCH – *on your own*

1:30pm – 5:00pm

Training Sessions

ROOM: 315-316	ROOM: 317-318	ROOMS: TBD	ROOM: 303-304
AIR QUALITY SYSTEM (AQS) (Continued) <i>Robert Coats</i>	QUALITY ASSURANCE <i>EPA/OAQPS/Regions and Invited Speakers</i>	Vendor-led Training – Criteria Gases <i>Various</i>	Data Analysis & Tools <i>EPA Staff & Invited Speakers</i>
<p><i>Training continues from the morning session...</i></p> <p><u>Submitting data to AQS</u> Overall data flow (both from ENSC and full Exchange Network Nodes) Data Formats Hands-On Exercises</p> <p><u>The AQS “Retrieval Subsystem” – Reports and output files</u> Reports User Interface Hands-On Exercises</p> <p><u>AQS Advanced Topics</u> (e.g. Certification and Exceptional Events)</p> <p><u>The AQS Data Mart and Public Data Access</u></p>	<p><i>Training continues from the morning session...</i></p> <p>1:30pm Toxics Quality Assurance</p> <p>2:15pm 2022 PM Regulatory Changes</p> <p>3:00pm Break</p> <p>3:15pm Data visualization tools</p> <p>4:00pm Open forum – questions and answers</p>	<p>1:30pm Welcome and overview of vendor-led training period – Joann Rice and Nealson Watkins (EPA)</p> <p>Participating vendors of criteria gas monitors and supporting equipment will be set up in individual rooms to provide overviews of their hardware and engage on instrument operations, including: <i>Principles of operation, Operational processes, User interfaces, Maintenance routines, and Troubleshooting. Plus, vendors specific topics.</i></p> <p>American Ecotech – Room 305</p> <p>Teledyne API – Room 406</p> <p>Thermo Fisher – Room 301-302</p>	<p>1:30pm Chemical Speciation Network (CSN) Dart tool</p> <p>2:45pm CSN/IMPROVE Data Viewer Demonstration</p> <p>3:20pm Break</p> <p>3:30pm Air Trends tool</p> <p>4:00pm EPA’s Air Toxics Screen tool</p> <p>4:30pm EPA’s Air Data website</p>

TUESDAY, AUGUST 23, 2022 – PLENARY SESSION BALLROOM A

	7:00am – 5:00pm	Registration open
	7:00am – 7:00pm	Exhibit Hall (Ballroom B & C) open
8:30am	Welcome and Logistics <i>Nealson Watkins, EPA Office of Air Quality Planning and Standards (OAQPS), Air Quality Assessment Division, Ambient Air Monitoring Group</i>	
8:40am	AAPCA and NACAA Welcome <i>TBD - NACAA Representative</i> <i>TBD - AAPCA Representative</i>	
8:50am	EPA Welcome and OAQPS Priorities <i>Chet Wayland, Division Director, Air Quality Assessment Division (AQAD), EPA Office of Air Quality Planning and Standards (OAQPS)</i>	
9:10am	Featured EPA Speaker <i>Janet McCabe, Deputy Administrator of the EPA</i>	
9:35am	Ambient Air Monitoring Overview <i>Kristen Benedict, Group Leader, Ambient Air Monitoring Group (OAQPS)</i>	
10:00am	BREAK – Ballroom B & C	

TUESDAY, AUGUST 23, 2022 – PLENARY SESSION (continued)
BALLROOM A

- 10:30am **Keynote Address – Emerging and Novel Measurement Methods to Support NAAQS Enforcement and Environmental Justice**
Dr. Albert Presto, Research Professor, Carnegie Mellon University.
- 11:05am **COVID-19 & Ambient Air Quality Monitoring – Joann Rice, Ambient Air Monitoring Group, and Brett Gantt, Air Quality Analysis Group (OAQPS)**
- 11:35am **NAAQS Overview – Tim Hanley, Ambient Air Monitoring Group (OAQPS)**
- 12:00pm **LUNCH – on your own**
- 1:30pm **EPA Office of Research and Development (ORD) Update**
Lara Phelps, EPA - ORD – Center for Environmental Measurements
- 1:55pm **EPA Office of Atmospheric Programs (OAP) Update**
Melissa Puchalski, EPA - OAP – Clean Air Markets Division
- 2:15pm **EPA Office of Transportation Air Quality (OTAQ) Update**
Ali Kamal, EPA – OTAQ – Assessments and Standards Division
- 2:35pm **EPA Tribal Air Monitoring Support (TAMS) Center Update**
Hayden Hardie, EPA – TAMS, and Mike Natchees, Ute Indian Tribe
- 2:55pm **National Tribal Air Association (NTAA) Update**
Steven Smith, Shinnecock Indian Nation
- 3:15pm **BREAK – Ballroom B & C**
- 3:45pm **Agenda Review (discuss logistics Wednesday and Thursday)**
Nealson Watkins – EPA-OAQPS
- 4:00pm **Regional Meet & Greet Session – State, Local and Tribal Agencies can take this opportunity to meet their EPA Regional Representatives.**

Room Assignments:

Region 1 Room: 301-302	Region 2 Room: 311	Region 3 Room: 315-316	Region 4 Room: 317-318	Region 5 Room: 305
Region 6 Room: 308	Region 7 Room: 309	Region 8 Room: 310	Region 9 Room: Ballroom A	Region 10 Room: 303-304

- 5:00pm **Regional Meet & Greet Session Adjourns**
- 5:30pm – 7:00pm **POSTER SESSION/NETWORKING RECEPTION – Ballroom B & C**

WEDNESDAY, AUGUST 24, 2022 – TECHNICAL SESSIONS

7:00am – 5:30pm Registration open
7:00am – 5:30pm Exhibit Hall (Ballroom B & C) open

8:00am – 10:00am Technical Sessions

Room: Ballroom A	Room: 301-302	Room: 303-304	Room: 315-316	Room: 317-318
AIR TOXICS Moderator – <i>Nealson Watkins (EPA)</i>	Community Monitoring Moderators – <i>Colin Barrette & Corey Mocka (EPA)</i>	PM - Speciation Moderator – <i>Melinda Beaver (EPA)</i>	QA Moderators – <i>Trisha Curran (EPA) & Yousef Hameed (Clark Co., NV)</i>	Tribal Monitoring Moderator – <i>James Payne (EPA)</i>
<p>8:00am Ambient Air Toxics Program Overview - <i>Nealson Watkins (EPA)</i></p> <p>8:20am NATTS Assessment Overview and TAD Update - <i>Doris Chen (EPA)</i></p> <p>8:50am EPA's Hazardous Air Pollutant (HAP) Ambient Monitoring Archive - <i>Regi Oommen (ERG)</i></p> <p>9:10am How ERG is developing interactive apps (via Qlik Sense) to facilitate air toxics data review- <i>Jaime Hauser (ERG)</i></p> <p>9:30am Challenges for VOC and Carbonyl Sampler Certifications - <i>Randy Bower (ERG)</i></p>	<p>8:00am Unfair Air in the District of Columbia - <i>Kane Samuel (DC)</i></p> <p>8:20am Health and Equity in the Historic West End Green District: A case study of community-led citizen science - <i>Daisha Williams and Denise Bruce (Cleanaire NC)</i></p> <p>8:40am Development of community and fence-line monitoring network to measure air toxics and other pollutants in communities near refineries - <i>Jason Low (SCAQMD)</i></p> <p>9:00am Hyperlocal Monitoring Pilot Study in the District - <i>Kelly Crawford (DC)</i></p> <p>9:20am Insights from development and implementation of a community air monitoring project using a mobile monitoring platform in Richmond-N. Richmond-San Pablo, California - <i>Daniel Alrick and Jack Connor (BAAQMD)</i></p> <p>9:40am Spatiotemporal Variations of Carbon Dioxide (CO₂) at Urban Neighborhood Scale: Characterization of Distribution Patterns and Contributions of Emission Sources - <i>Zhong-Ren Peng (Univ. of Florida)</i></p>	<p>8:00am Chemical Speciation Network Overview and Updates - <i>Melinda Beaver (EPA)</i></p> <p>8:20am Source-specific emission factors of BC and OC considering 2 major urban aerosol sources: traffic and domestic heating - <i>Balint Alföldy (Aerosol)</i></p> <p>8:40am Water Soluble Nitrogen - <i>Marcus Stewart (Wood)</i></p> <p>9:00am A Low-Cost, High Performance, Industrial Grade Carbon Sensor - <i>David Gobeli - Met One</i></p> <p>9:20am An Interlaboratory comparison of elemental loadings on PM_{2.5} samples via energy-dispersive XRF and single quadrupole ICP-MS - <i>Colleen Rosales (UC Davis)</i></p> <p>9:40am Suspected Stainless Steel Contamination on CSN filters - <i>Sean Raffuse - UC Davis</i></p>	<p>8:00am National QA Program Updates - <i>Greg Noah (EPA)</i></p> <p>8:30am Station Operation by the Numbers – <i>Juan Garcia and Ricardo Morales (SCAQMD)</i></p> <p>9:00am Investigation of Gaseous Pollutant Transport Efficiency as a Function of Tubing Material - <i>Robert Yaga (EPA)</i></p> <p>9:30am NATTS/PAMS VOC/Carbonyl Manifolds - Leak identification, corrective actions, reoccurrence minimization, and lessons learned - <i>Raul Dominquez (SCAQMD)</i></p>	<p>8:00am Building Federal-Tribal Partnerships through Air Quality and Atmospheric Deposition Monitoring - <i>David Schmeltz (EPA)</i></p> <p>8:30am Tribal Air Quality Monitoring Programs - <i>Tiffany Wolfe (Pechenga Band of Luiseno Indians)</i></p> <p>9:00 – 10:00am Tribal discussion forum: Tribal attendees, TAMS staff, NTAA, and EPA.</p>

10:00am – 10:30am

BREAK (Ballroom B & C)

10:30am – 12:00pm Technical Sessions

Room: Ballroom A	Room: 301-302	Room: 303-304	Room: 315-316	Room: 317-318
<p>Toxics Moderator – Susan Kilmer (Michigan EGLE)</p>	<p>Community Monitoring Moderator – Denise Bruce (CleanAirNC) & Colin Barrette (EPA)</p>	<p>PM Moderators – Tim Hanley (EPA) & Rene Bermudez (SCAQMD)</p>	<p>QA Moderator – Verena Joerger (EPA) & Namita Verma (VA DEQ)</p>	<p>AQS & AirNow Moderator – Robert Coats & Brad Johns (EPA)</p>
<p>10:30am Air Toxics Trends in Seattle and Tacoma WA - Preliminary Results - <i>Matt Harper (PSCAA)</i></p> <p>11:00am Air Toxics Trends in the South Coast Air Basin - Multiple Air Toxics Exposures Study V – <i>Monna Trinh (SCAQMD)</i></p> <p>11:30am Use of Air Data in Health Consultations by the Agency for Toxics Substances Registry (ATSDR) and State/Local Health Agencies - <i>Motria Caudill (CDC/ATSDR)</i></p>	<p>10:30am Community Air Monitoring Project for VOCs in South Portland/Portland, Maine - <i>Andy Johnson (Maine DEP)</i></p> <p>10:50am AQEarth: Providing turn-key air monitoring to cities, tribes, and community groups – <i>Story Schwantes (TDE)</i></p> <p>11:10am New Tools and Approaches for Approaching Localized Community Air Monitoring as implemented in AB 617 - <i>Jason Low (SCAQMD)</i></p> <p>11:30am Air Monitoring in Mexicali, Mexico. The evolution of air pollution monitoring in a border city - <i>Jose Landeros (SCS Engineers)</i></p>	<p>10:30am 10 years of Ncore: PM2.5 FEMs vs FRMs - <i>Brett Gantt (EPA)</i></p> <p>11:00am Continuous PM: Road to Transition - <i>Rene Bermudez (SCAQMD)</i></p> <p>11:30am Indoor and Outdoor PM in 6 Asian Cities - <i>Anil Namdeo (Northumbria Univ.)</i></p>	<p>10:30am Getting 0.3% difference: Calibrating a multi-gas calibrator to generate calibration gas concentrations under 1 ppb accurately- <i>Matthew Shrensel (Oregon DEQ)</i></p> <p>11:00am Protocol Gas and Protocol Gas Verification Program (PGVP) - <i>Doug Jager (EPA)</i></p> <p>11:30am Certifications - Best Practices (Gases, Calibration, Equipment, SRP) - <i>Trisha Curran (EPA)</i></p>	<p>10:30 AM – 12:00 PM</p> <p>Planned Unified Ambient Air Data System – The Vision and Concept</p>

12:00am – 1:30pm

LUNCH – on your own

1:30pm – 3:00pm Technical Sessions

Room: Ballroom A	Room: 301-302	Room: 303-304	Room: 315-316	Room: 317-318
<p>Air Toxics – Lightning Talks Moderator – Ned Shappley (EPA)</p>	<p>Sensors Moderators – Daniel Johnson (OR DEQ) & Corey Mocka (EPA)</p>	<p>PM Moderators – Tim Hanley (EPA) & Rene Bermudez (SCAQMD)</p>	<p>QA Moderators – Will Wallace (EPA) & Matt Harper (PSCAA)</p>	<p>AQS & AirNow Moderator – Robert Coats & Brad Johns (EPA)</p>
<p>1:30pm Continuous Multi-metals monitoring - Krag Petterson (Cooper Environmental/SCI)</p> <p>1:40pm New measurement method for reactive, particle-bound and gaseous oxidized Mercury - Sarah Dunham-Cheatham (Univ. of Nevada - Reno)</p> <p>1:50pm Collection and extraction of PFAS using styrene-divinylbenzene resin and accelerated solvent extraction - Jason Hoisington (Restek)</p> <p>2:00pm Complimentary monitoring of online PAMS and HAP VOCs - Allen Chou (Tricorntech)</p> <p>2:10pm Cavity Ring-down Spectroscopy - James Hargrove (ALTI (Activated Light))</p> <p>2:20pm AROMA: Realtime EtO measurements in ambient air - Aurelie Marcotte (Entanglement Technologies)</p> <p>2:30pm Systems for continuous, ambient monitoring of Ethylene Oxide – Updates from the field – Updates from the field- Dave Miller (Picarro)</p> <p>2:40pm Realtime measurements of EtO - Scott Herndon (Aerodyne)</p> <p>2:50pm Continuous VOC Monitoring for Emissions Location and Sample Acquisition - Jacob Melby (Sensit)</p>	<p>1:30pm Sensor evaluations: The impact of PM monitor type – Karoline Barkjohn (EPA)</p> <p>1:45pm Atlanta Rail and Port Sensors Project: An Air Quality Pilot Study - Ryan Brown (EPA)</p> <p>2:00pm Long-term evaluation of low-cost particulate and gaseous air sensors in Middle Tennessee - Michelle Oakes (Tenn. DEC)</p> <p>2:20pm The Sensor Verification System - A novel way to check performance of air sensors anywhere - Tim Dye (TDE)</p> <p>2:40pm Can Low-cost NO2 sensors be used to aid in understanding ozone formation – Joshua Uebelherr (Maricopa)</p>	<p>1:30pm State of the art ambient ultrafine particle monitoring: the blind spot of current methods – Tim Wright (TSI)</p> <p>1:50pm A low-cost, high performance, industrial grade particle counter for simultaneous PM1, PM2.5, PM4, and PM10 Measurements – David Gobeli (Met One)</p> <p>2:10pm Quantifying Salton Sea's Harmful PM During High Wind Events - Sergio Valenzuela (SCS Engineers)</p> <p>2:30pm A difference-in-differences approach for assessing the effectiveness of dust mitigations at the Oceano Dunes - Karl Tupper (San Luis Obispo APCD)</p>	<p>1:30pm Embrace the Change: The Data Validation Journey - Gina Curvin (Alabama DEM)</p> <p>2:00pm DQOs in the PM2.5 National Ambient Air Monitoring Network - Bob Lordo (Battelle)</p> <p>2:30pm T640 & T640x Validation Templates - Tim Hanley (EPA)</p>	<p>1:30 – 3:00PM</p> <p>Unified Ambient Air Workshop Series: Who Are You?</p> <p>Help us shape the future of the EPA's Air Quality System and AirNow System by joining us for this hands-on, facilitated discussion with members of the design team. Your input will be heard and applied as we reimagine the future of these systems. Our design researchers will be aiming to understand what job functions you are performing when interacting with the Ambient Air systems, how you use the systems, and what value you would want from a new unified system</p>

3:00pm – 3:30pm

BREAK (Ballroom B & C)

3:30pm – 5:30pm Technical Sessions

Room: Ballroom A	Room: 301-302	Room: 303-304	Room: 315-316	Room: 317-318
<p>Air Toxics Moderator – <i>Doris Chen (EPA)</i></p>	<p>Sensors Moderator – <i>Daniel Johnson (OR DEQ) & Colin Barrette (EPA)</i></p>	<p>Near-road Moderator - <i>Ben Davis (Maricopa Co., AZ)</i></p>	<p>Ozone Moderator – <i>Jim Norris (NIST) & Joann Rice (EPA)</i></p>	<p>AQS & AirNow Moderator – <i>Robert Coats & Brad Johns (EPA)</i></p>
<p>3:30pm Initial assessment of a pilot program for measuring PFAS in wet deposition in the eastern US - <i>John Offenburg (EPA)</i></p> <p>3:50pm Fenceline monitoring applications and measurement technology - <i>Ned Shappley (EPA)</i></p> <p>4:10pm Determination of an EPA Method 325B uptake rate for Chloroprene - <i>David Berkowitz (Montrose)</i></p> <p>4:30pm Low volume sampling indicates increased efficiency in PAH capture - <i>Benjamin Ayres (Oregon DEQ)</i></p> <p>4:50pm Spatial and temporal variability of PAHs in the ambient air – <i>Xianqiang Fu (Univ. of Memphis)</i></p> <p>5:10pm Comparison of PTR-ToF-MS against four other VOC methods using standard techniques in fence-line monitoring - <i>Antonios Tasoglou (RJ Lee Group)</i></p>	<p>3:30pm Low-cost sensor testing and performance: A case study for implementing EPA's testing criteria and data usability for SO₂ – <i>Ali Akherati (Ramboll)</i></p> <p>3:50pm Lessons Learned from Air Sensor Loan Pilot Programs - <i>Olivia Ryder (STI)</i></p> <p>4:10pm Improving Tribal and Citizen Science with Low-cost Air Sensor Collocation Shelters - <i>Ryan Brown (EPA)</i></p> <p>4:30pm Air Sensors for Education and Community Engagement - <i>Olivia Ryder (STI)</i></p> <p>4:50pm Communities in Action - <i>Jason Low (SCAQMD)</i></p> <p>5:10pm Lightning Talk - A low-cost handheld sulfur dioxide tester with a hybrid nanomaterials-based sensor chip - <i>Yale Wang - (NanoAffix Sci)</i></p> <p>5:20pm Lightning Talk- Combustion focused monitoring with wireless AQ networks - <i>Julien Caubel (Dist. Sensing Tech.)</i></p>	<p>3:30pm Monitoring of 3 criteria air pollutants at an international port of entry - <i>Wen-Whai Li (Univ. of Texas El Paso)</i></p> <p>4:00pm Mobile and sensor measurements to assess community impacts and mitigation strategies for transportation sources - <i>Rich Baldauf (EPA)</i></p> <p>4:30pm Three-dimensional diffusion of traffic related air pollutants on the roadside based on unmanned aerial vehicle monitoring - <i>Zhong-Ren Peng (Univ. of Florida)</i></p> <p>5:00pm Contributions of non-tailpipe emissions to PM_{2.5} and PM₁₀ near highways - <i>Xiaoliang Wang (DRI)</i></p>	<p>3:30pm VOC and O₃ Measurements at Carlsbad Caverns National Park - <i>Barkley Sive (NPS)</i></p> <p>4:00pm Integration of Nafion sample conditioner into existing FEM ozone monitor - <i>Bryan Bibeau (Teledyne API)</i></p> <p>4:30pm Ozone absorption cross-section revision to 40 CFR part 50 Appendix D - <i>Joann Rice (EPA)</i></p>	<p>3:30 – 5:30 PM</p> <p>Unified Ambient Air Workshop Series: Buy a Feature!</p> <p>Join us in this hands-on, interactive session to help us determine what a new, unified ambient air system should be! We will be facilitating a series of gamified activities and discussions around the prioritization of user-identified features for a future unified ambient air system. This is an opportunity to get a sneak peek at many of the features being considered in our future system as well as have a direct impact on which features are chosen to implement.</p>

THURSDAY, AUGUST 25, 2022 – TECHNICAL SESSION

7:00am – 3:00pm Registration open
7:00am – 10:30am Exhibit Hall open

8:00am – 10:00am Technical Sessions

Room: Ballroom A	Room: 301-302	Room: 303-304	Room: 315-316	Room: 317-318
Air Toxics – EtO Session Moderator – Joann Rice (EPA)	Wildfire Impacts Moderator -Gwen Yoshimura (EPA)	Near-road Moderator - Rich Baldauf (EPA)	PAMS Moderator – Corey Mocka (EPA)	AQS & AirNow Moderator - Robert Coats & Brad Johns (EPA)
<p>8:00am Ambient EtO Monitoring Challenges – Sara Waterson (EPA)</p> <p>8:30am Georgia’s Experience in EtO Monitoring – DeAnna Oser (GA EPD)</p> <p>9:00am Status of EtO Source Measurements – Peter Kariher (EPA)</p> <p>9:30am Analysis of EtO by TO-15 – Kyle Rasmus (ERG)</p>	<p>8:00am Ambient Monitoring of Wildland Urban Interface Fires - Amara Holder (EPA)</p> <p>8:20am Air Quality Monitoring during extreme events: Observations during record-breaking smoke and heat events in Oregon - Zach Koch (Oregon DEQ)</p> <p>8:40am Comparison of tools to quantify wildfire smoke influence ozone concentrations - Cari Gostic (STI)</p> <p>9:00am Characterization of PM collected using passive samplers during wildfire episodes - Gary Casuccio (RJ Lee Group)</p> <p>9:20am Community-Facility-Fire visible emissions monitoring: Estimating PM and volatile concentrations remotely over wide areas - Shawn Dolan (Virtual Technology)</p>	<p>8:00am Diesel particulate source apportionment study - Benjamin Ayres (Oregon DEQ)</p> <p>8:30am Characterizing nitrogen oxides and fine PM near major highways in the U.S. using the national near-road monitoring network - Brett Gantt (EPA)</p> <p>9:00am Non-parametric trajectory analysis of high time resolution PM2.5 data from EPA's near-road monitoring network - Janet Burke (EPA)</p> <p>9:30am Exploring near-road data with the near-road dashboard - demonstration - Charles Scarborough (STI)</p>	<p>8:00am PAMS Program Update - Corey Mocka (EPA)</p> <p>8:20am Long-term air quality trends and an evaluation of VOC measurements in the District - Joseph Jakuta (DC)</p> <p>8:40am Data analysis of measurements collected under an Enhanced Monitoring Plan (EMP) to better understand Long Island Sound ozone - Lucas Valin (EPA)</p> <p>9:00am Two years of CAS Auto-GC PAMS Monitoring: Successes and Challenges in Software/Hardware Implementation, Monitoring, and Data QC - Crystal McClure (STI)</p> <p>9:20am Unified Ceilometer Network: Aerosol Profiling and Planetary Boundary Layers Retrievals in Support of PAMS - Ruben Delgado (Univ. Maryland - Balt. Co.)</p> <p>9:40am SUMMA and PUF sampling in support of characterizing ozone formation in Maricopa County - Joshua Uebelherr (Maricopa Co.)</p>	<p>8:00 – 10:00am</p> <p>Unified Ambient Air Workshop Series: Buy a Feature!</p> <p>Join us in this hands-on, interactive session to help us determine what a new, unified ambient air system should be! We will be facilitating a series of gamified activities and discussions around the prioritization of user-identified features for a future unified ambient air system. This is an opportunity to get a sneak peek at many of the features being considered in our future system as well as have a direct impact on which features are chosen to implement.</p>

10:00am – 10:30am

BREAK

THURSDAY, AUGUST 25, 2022 – Round-table Discussions

10:30am

Roundtable Topic Discussions (Drop in to ask questions or have a chat)

<p style="text-align: center;">Air Toxics (TO-15 / NATTS TAD / EtO) <i>Doris Chen, Joann Rice, Ned Shappley</i> Ballroom</p>	<p style="text-align: center;">Air Toxics Screening Tool <i>Jeanette Reyes</i> Room 315-316</p>	<p style="text-align: center;">Sensors <i>Andrea Clements, Karoline Barkjohn, Corey Mocka, & Colin Barrette</i> Room 303-304</p>	<p style="text-align: center;">PM – Networks & Data <i>Tim Hanley & Brett Gantt</i> Room 301-302</p>	<p style="text-align: center;">PM - Speciation <i>Melinda Beaver, Nicky Smith, Alex Murrain, Justin Knoll, & Hayley Curilla</i> Room 305</p>	<p style="text-align: center;">Quality Assurance <i>Greg Noah, Trisha Curran, Doug Jager</i> Room 317-318</p>
<p style="text-align: center;">CASTNET <i>Melissa Puchalski & Tim Sharac</i> Room 308</p>	<p style="text-align: center;">TAMS/Tribal <i>James Payne & Hayden Hardie</i> Room 309</p>	<p style="text-align: center;">PFAS <i>John Offenburg & David Gay</i> Room 310</p>	<p style="text-align: center;">Wildfire Impacts <i>Amara Holder & Gwen Yoshimura</i> Room 311</p>	<p style="text-align: center;">Grants <i>Tim Roberts, Ned Dowdell, Ashley Thompson</i> Room 312</p>	

11:30am – 1:00pm

Lunch on your own

THURSDAY, AUGUST 25, 2022 – CLOSING PLENARY SESSION BALLROOM A

1:00pm

**Responding to the Government Accountability Office Report on Ambient Monitoring
Networks: Asset Management**
Nealson Watkins, EPA - OAQPS

1:30pm

**Responding to the Government Accountability Office Report on Ambient Monitoring
Networks: Modernization**
Nealson Watkins, EPA - OAQPS

1:40pm

**Using Satellite Data: Overview of Tropospheric Emissions: Monitoring of Pollution
(TEMPO) mission and data product validation plans**
Jim Szykman, EPA - ORD

2:10pm

**Lessons learned from major updates and expansions in a statewide air monitoring
program**
Matthew Shrensel, Oregon DEQ

2:40pm

Modernization – Open Discussion Forum
Audience participation

3:15pm

ADJOURN

THANK YOU!