

Preliminary Agenda
2023 Air Sensor Quality Assurance Workshop
July 25 – 27, 2023

Tuesday, July 25, 2023

Time/Session	Topic	Track	Description
8:45 AM ET	Round Tables (In-Person Only)	General	<p>Day 1 Round Table Discussion – Quality Assurance (QA) Considerations for Specific Application Spaces</p> <p>Gather with attendees working on projects related to a specific application theme where the group will discuss some of the QA considerations that may be important and unique to the application.</p> <p>Tentative Tables: Community Air Monitoring, Wildfire and Smoke, Indoor/Outdoor Measurements, Measuring Source Impacts, Public Education/Communication</p>
BREAK			
10:00 AM ET	Day 1 Technical Program Starts (In-Person and Virtual)		
Session 1	Conventional Air Monitoring to Sensors: What QA is needed to answer a question?	General	Air monitoring experts discuss their experience with regulatory and conventional air monitoring to better understand QA for monitoring and the unique challenges for air sensors. This session will cover PM, gas, and VOC sensing and monitoring.
LUNCH			
Session 2	Overview of QA: Particulate Matter (PM) Sensors	PM	State of the science of QA for PM air sensors.
BREAK			
Session 3	QA for PM-Specific Applications	PM	Short talks from a variety of speakers on specific QA aspects including sensor hardware, analyzing data from individual sensors, QA for large networks, and more.
5:30 PM ET	End of Day 1 Technical Program		

Wednesday, July 26, 2023

Time/Session	Topic	Track	Description
8:45 AM ET	Round Tables (In-Person Only)	General	<p>Day 2 Round Table Discussion - QA Process Steps Quality assurance is important at every stage of a project lifecycle. Gather with attendees on a similar lifecycle stage to discuss quality assurance or quality control aspects related to that project phase.</p> <p>Tentative Tables: QAPPs and Data Quality Objectives, Non-Collocation Data Correction Strategies, Sensor/Network Maintenance and Physical QC, Real-Time Data QA, QA When Aggregating Data from Multiple Sources</p>
BREAK			
10:00 AM ET	Day 2 Technical Program Starts (In-Person and Virtual)		
Session 4	Overview of QA: Fenceline and Near Source Community Applications for Air Toxics and VOCs	Fenceline/ Near Source Community	State of the science of QA for fenceline and near source community air sensors.
LUNCH			
Session 5	QA for Specific Air Toxics and VOC Applications	Fenceline/ Near Source Community	Short talks from a variety of speakers on specific QA aspects including sensor hardware, analyzing data from individual sensors, QA for large networks, and more.
BREAK			
Session 6	Sensor Manufacturers QA	General	In this session we'll hear from a variety of manufacturers and data aggregators including those developing air toxics, VOC, gas, and PM sensors. Manufacturers will discuss QA procedures before their devices or data get into the hands of consumers, and how they work with consumers once their devices start collecting data. This session will cover such topics as hardware checks, data outlier removal, data correction, sensor maintenance, mobile QA, and more.
5:30 PM ET	End of Day 2 Technical Program		
5:30 PM – 6:30 PM ET	Networking Event (In-Person Only)		

Preliminary Agenda – All information is subject to change ahead of the event.

Thursday, July 27, 2023

Time/Session	Topic	Track	Description
8:45 AM ET	Round Tables (In-Person Only)	General	<p>Day 3 Round Table Discussion - Communicating Data Quality Data quality can influence the way that we communicate air quality data. Gather with attendees working on similar data communication issues to discuss challenges, successful strategies, and new resources that may be needed to support this work.</p> <p>Tentative Tables: Putting Measurements in Perspective, Graded Action-Oriented Response to AQ Information, Short-Term Measurements/Long-Term Health Messaging, Communicating Differences in Methods/Data Sources, Communicating Uncertainty</p>
BREAK			
10:00 AM ET	Day 3 Technical Program Starts (In-Person and Virtual)		
Session 7	Overview of QA for Gas Sensors	Gas	State of the science of QA for gas air sensors including sensors for ozone, nitrogen dioxide, carbon monoxide, and others.
LUNCH			
Session 8	QA for Specific Gas Sensor Applications	Gas	Short talks from a variety of speakers on specific QA aspects including sensor hardware, analyzing data from individual sensors, QA for large networks, and more.
BREAK			
Session 9	Manufacturers and Data Aggregators QA	General	Learn about the statistical challenges and pitfalls associated with analyzing air sensor data and discuss how we work towards generating more actionable air sensor data.
Session 10	Statistics and Data Science for Quality Assurance	General	Learn about potential statistical challenges and pitfalls with analyzing the data from air sensors to work towards more actionable air sensor data.
Session 11	Closing Panel: Where do we go from here?	General	Discuss what we have all learned at the workshop and where to go next.
5:30 PM ET	End of Workshop		