

# 2019 MARAMA Air Quality Monitoring Training Workshop

November 19-21, 2019

Swarthmore Inn

Swarthmore, PA

## Workshop Objectives

This workshop will provide an opportunity to interact with and learn from MARAMA member agency monitoring program representatives as well as invited expert speakers and MARAMA air directors.

Participants will share experiences meeting challenges with new air quality monitoring technology, updated data analysis and quality assurance methods, and revised regulatory requirements.

## DRAFT AGENDA

### Tuesday, November 19, 2019

12:00 – 12:45 Check-ins

12:45 – 1:00 Welcome to Training

#### Track 1 - Operations

##### **Auto GC Training**

1:00 – 5:00 Meet with CAS or Agilent vendor

#### Track 2 – Data Validation

##### **Auto GC / Ceilometer Data Validation**

1:00 – 3:00 Meet with Auto GC / Ceilometer vendors

##### **PowerBI Training**

3:00 – 5:00 Train with PADEP PowerBI professionals

### Wednesday, November 20, 2019

8:30 – 8:45 Welcome, Review Agenda, Introductions

8:45 – 9:15 **Keynote Speaker**  
(Carolyn Blocker, Government Accountability Office (GAO))

#### EPA Overview

9:15 – 9:40 EPA Region 3 (Alice Chow, EPA Region 3)

9:40 – 10:05 EPA OAQPS (Liz Naess, EPA OAQPS - Invited)

10:05 – 10:15 EPA Overview - Q&A Session

10:15 – 10:30 **Break**

#### PAMS Implementation

10:30 – 10:55 EPA OAQPS update (Kevin Cavender/Liz Naess, EPA OAQPS – Invited)

- 10:55 – 11:20 Auto GC discussion (*Luis Lim, NJ DEP*)  
 11:20 – 11:45 Ceilometer Workgroup (*Ruben Delgado, UMBC*)  
 11:45 – 12:00 PAMS Implementation - Q&A Session
- 12:00 – 1:30 **Lunch and Lunchtime Presentation**  
 Baltimore SEARCH Project (*Kirsten Koehler, Johns Hopkins University*)

### **Air Sensors**

- 1:30 – 1:45 Overview of the Air Sensor Workshop (*Howard Schmidt, EPA Region 3*)  
 1:45 – 2:05 RAMP Study (*Albert Presto, Carnegie Mellon University (CMU)*)  
 2:05 – 2:25 Air Sensor Study in Philadelphia area (*Marilyn Howarth/George Gerton, University of Pennsylvania*)  
 2:25 – 2:45 PM<sub>2.5</sub> Sensor Study Around Philadelphia Ports (*Carol Ann Gross-Davis, EPA Region 3 – Invited*)  
 2:45 – 3:00 Purple Air Sensor Study (*Jordan Davis et al., DC*)  
 3:00 – 3:15 Air Sensors - Q&A Session
- 3:15 – 3:30 **Break**

### **Data Analysis and Visualizations**

- 3:30 – 3:55 OWLETS Update (*Joel Dreessen, MDE*)  
 3:55 – 4:20 LISTOS Update (*Dirk Felton, NYSDEC*)  
 4:20 – 4:45 CMU's CreateLab (*Randy Sargent, CMU*)  
 4:45 – 5:00 Data Analysis and Visualizations - Q&A Session

## **Thursday, November 21, 2019**

- 7:40 – 8:00 **Pre-Workshop**  
 How to Prepare an Air Quality Forecast (*James Boyle, MDE*)

### **Federal Program Updates**

- 8:00 – 8:05 Welcome, Review Agenda  
 8:05 – 8:20 IMPROVE Update (*Chuck Turner, VADEQ*)  
 8:20 – 8:35 CASTNET Update (*Tim Sharac, EPA*)  
 8:35 – 8:50 AirNow Update (*Phil Dickerson and/or John White, EPA OAQPS*)  
 8:50 – 9:05 Ethylene Oxide Monitoring Update (*EPA - invited*)  
 9:05 – 9:20 Federal Program Updates – Q&A Session

### **Quality Assurance**

- 9:20 – 9:40 Auditing Low Levels (*EPA Region 2 – invited*)  
 9:40 – 10:00 NPAP/TTP Presentation (*Dwayne Hall, EPA Contractor*)

- 10:00 – 10:20 EPA Regional Office Update (*Kia Long and Verena Joerger, EPA Region 3*) – TSA Update, AMP reports, 1-point QC in AQS, use of NPAP/TTP audits
- 10:20 – 10:30 Quality Assurance - Q&A Session
- 10:30 – 10:45 **Break**

### **Monitoring Planning – 2020 5-Year Network Assessment**

- 10:45 – 11:15 EPA Update (*Liz Naess, EPA OAQPS – Invited*)
- 11:15 – 12:00 Overall Discussion/Roundtable
- 12:00 – 1:30 **Lunch and Lunchtime Presentation**  
Plans for an Integrated Observing System for Air Quality (*Barry Lefter, NASA – Invited*)

### **Pointers, Ploys and Procedures**

- 1:30 – 3:15 Agency Tips on Operating Procedures of Different Types of Equipment (*15-minute agency presentation*)

#### **Topics Include...**

- Operation of a T640 (*Betsy Frey, DNREC*)
- Operation of a T640x (*Hallie Weiss, Phila AMS*)
- Dust Study (*Keith Hoffman, DNREC*)
- TBD (*Khin Sann Thaung and Brandon Miller, DOEE*)
- TBD (*MDE*)
- TBD (*NJ DEP*)
- TBD (*PA DEP*)

- 3:15 – 3:30 **Break**

### **Roundtable Discussion**

- 3:30 – 4:45 Monitoring program leads from each agency
- 4:45 – 5:00 Wrap up and Adjourn