2016 MARAMA Air Quality Monitoring Workshop

December 6-8, 2016

Greenbelt Marriott Hotel
6400 Ivy Lane, Greenbelt, MD 20770
301-441-3700

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.

Agenda

Tuesday, December 6, 2016

12:00 – 1:30 Lunch and Keynote Presentation

Integration of Satellite Data with Surface and Aircraft-Based Air Quality Data
Dr. James Crawford, NASA Langley Research Center (invited)

1:30 – 2:00 Regional Air Quality Analysis

Analysis of Recent High Ozone Events
Joel Dreessen, Maryland Department of the Environment (invited)

2:00 – 3:10 Research and Perspectives on Personal Air Sensors

Preparing for Conversations about Personal Air Sensors
Megan Green, Mecklenburg County Air Quality

Monitoring for Sulfur Dioxide using Sensor Technology
Lori Cherry, North Carolina Department of Environmental Protection

EPA's Air Sensor Toolbox and Related Projects
Lew Weinstock, EPA Office of Air Quality Planning & Standards

3:10 – 3:30 Break

3:30 – 4:30 EPA Updates

Region 3 EPA
Alice Chow, Associate Director, Office of Air Monitoring

EPA Office of Air Quality Planning and Standards
Lew Weinstock, Air quality Monitoring Group Leader

Discussion – All

Dinner is on your own

Wednesday, December 7, 2016

8:30 – 9:15 **Discussion of New Requirements for Enhanced Ozone Monitoring**

Alice Chow, EPA, Region 3
Dave Krask, Maryland DOE
Chuck Turner, Virginia DEQ
Lew Weinstock, EPA, OAQPS

9:15 – 10:15 **How to Approach Problems Using Big Data Sets**

Tim Canty, Atmospheric and Oceanic Science, University of Maryland

10:15-10:30 **Break**

10:30 – 11:30 **Analysis of the Changing Atmosphere**

Russ Dickerson, Atmospheric and Oceanic Science, University of Maryland (invited)

11:30 – 12:15 **The Effect of Changing Air Chemistry on Air Quality Forecasting and Analysis**

Joel Dreessen, Air Quality Forecaster, Maryland Department of the Environment

12:15 – 1:45 **Lunch and Luncheon Speaker**

Efforts to assess the impact of oil and gas operations on air quality
Emily McClain (invited)

1:45 – 2:15 **Discussion of Annual Monitoring Network Plans and Resources**

Alice Chow, EPA, Region 3
Dave Krask, Maryland DOE
Nick Lazor, Pennsylvania DEP
Discussion - All

2:15 – 2:35 **Discussion of Air Toxics Monitoring**

Chuck Turner, Virginia DEQ
Ram Tangirala, District of Columbia DOEE

2:35 –2:50 **Break**

2:50 – 3:30 **Quality Assurance Topics Including Updating Calibration Ranges and Setting Minimum Detection Limits and Using E-log Books and Information Management**

Kia Hence, EPA, Region 3
Chuck Sarnoski, Delaware NREC
Chuck Turner, Virginia DEQ
Discussion - All

3:30 – 4:15 **New Requirements for Exceptional Event Demonstrations**

Kia Hence, EPA, Region 3

4:15 – 4:30 **IMPROVE Committee Update**

Chuck Turner, Virginia DEQ

Dinner is on your own

Thursday, December 8, 2016

8:30 – 10:15 Roundtable discussion

Nick Lazor and Panel of Air Program Managers

10:15 – 10:45 Break

10:45 – 11:45 Discussion of PM Continuous Monitor Performance

Luis Lim, New Jersey DEP
Ram Tangirala, District of Columbia DOEE
Nick Lazor, Pennsylvania DEP
Lew Weinstock, EPA, OAQPS

11:45 – 11:50 Plans for Technical Exchange Forum for PM Site Operators

Nick Lazor, Chief, Division of Air Monitoring, Pennsylvania DEP

11:50 – 12:00 Wrap up

Next steps, chair for next year, etc.