2020 MARAMA Air Quality Monitoring Training Committee Virtual Workshop
December 8 – 10, 2020

GoToWebinar

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
(All Times are in Eastern Standard Time (EST))

Day 1 – Tuesday, December 8, 2020

Training:

9:00 – 10:45 R Programming Language for Data Validation Purposes (*Jennifer St. Clair, MARAMA and Keith Hoffman, DNREC*)

10:45 – 11:00 Non-Training Attendees – Log in to GoToWebinar

Workshop:

11:00 – 11:20 Welcome to Day 1, Review Agenda and Webinar Rules

11:20 – 11:50 **KEYNOTE SPEAKER – In Recognition of EPA's 50th Anniversary** (*Brian Charlton, Donora Smog Museum*)

11:50 – 12:00 Q&A Session

12:00 – 1:00 **LUNCH**

1:00 – 1:30 **GAO Report** (*J. Alfredo Gomez and Dr. Anne Hobson, US GAO*)

1:30 – 1:45 Q&A Session

1:45 – 2:15 **Working with ATSDR** (*Lora Werner and Bob Helverson, US CDC*)

2:15 – 2:30 Q&A Session

EPA Overview

2:30 – 2:50 EPA OAQPS update (*Kristen Benedict, EPA OAQPS*)

2:50 – 3:10 EPA Region 2 update (*Gavin Lau, EPA Region 2*)

3:10 – 3:30 EPA Region 3 update (*Alice Chow, EPA Region 3*)

3:30 – 3:50 EPA Region 4 update (*Laura Ackerman, EPA Region 4*)

3:50 – 4:05 Q&A Session

4:05 – 4:20 Let's Get Trivial – Day 1

4:20 – 4:30 Day 1 – Wrap-up and Adjourn

Day 2 – Wednesday, December 9, 2020

8:30 – 8:40 Welcome to Day 2, Review Agenda

PAMS Implementation

8:40 – 8:55 EPA OAQPS Update (*Kevin Cavender, EPA Region 3*)
8:55 – 9:15 Delaware PAMS Experience (*Charles Sarnoski/Angelina Rogers, DNREC*)
9:15 – 9:35 Virginia PAMS Experience (*Charles Turner, VADEQ*)
9:35 – 9:55 Maryland PAMS True NO2 Experience (*Ryan Auvil, MDE*)
9:55 – 10:15 Ceilometer Update (*Dr. Ruben Delgado, UMBC*)
10:15 – 10:35 PANDORA Update (*Dr. Elena Lind, Virginia Tech*)
10:35 – 10:45 Q&A Session

10:45 – 10:55 **BREAK**

Quality Assurance

10:55 – 11:10 EPA OAQPS Update (*Greg Noah, EPA OAQPS*)
11:10 – 11:25 EPA Region 3 Update (*Verena Joerger, EPA Region 3*)
11:25 – 11:40 State Air Toxics QA Experience (*Dr. Namita Verma, VADEQ*)
11:40 – 11:50 Q&A Session

11:50 – 12:00 Let's Get Trivial – Day 2 AM

12:00 – 1:00 **LUNCH**

Program Updates

1:00 – 1:20 EPA AirNow Update (*Phil Dickerson, EPA OAQPS*)
1:20 – 1:40 CASTNET Update (*Timothy Sharac, EPA Headquarters*)
1:40 – 2:00 IMPROVE Update (*Scott Copeland, Colorado State University*)
2:00 – 2:15 Q&A Session

2:15 – 2:25 **BREAK**

The Role of Satellites in Monitoring

2:25 – 2:45 Copernicus Atmosphere Monitoring Service (*Dr. Mark Parrington, ECMWF*)
2:45 – 3:05 AerosolWatch (*Dr. Amy Huff, NOAA*)
3:05 – 3:25 Methane Study in Texas (*Dr. Yuzhong Zhang, Harvard University*) - **VIDEO**
3:25 – 3:45 ACTIVATE Project (*Dr. Armin Sorooshian, University of Arizona*)
3:45 – 4:00 Q&A Session

4:00 – 4:15 Let's Get Trivial – Day 2 PM

4:15 – 4:30 Day 2 – Wrap-up and Adjourn

Day 3 – Thursday, December 10, 2020

8:30 – 8:55 **Pre-Workshop** - How to Prepare an Air Quality Forecast (*Daniel Salkovitz, VADEQ*)

9:00 – 9:10 Welcome to Day 3, Review Agenda

Roundtable Discussion

9:10 – 10:05 Monitoring program leads from each agency (*Lightning Round, 5-min presentation*)
10:05 – 10:20 Q&A Session

10:20 – 10:30 **BREAK**

Pointers, Ploys and Procedures

10:30 – 11:00 Agency Tips on Operating Procedures of Different Types of Equipment (*10-minute agency presentation*)

Topics Include…
Virginia's Experience with ATEC 2200 Canister (*Chuck Turner/Brian King, VA DEQ*)
Philadelphia's Experience with ATEC Canister (*Paresh Mehta, Phila AMS*)
Connecticut's Experience with Portable Ozone Sensor (*Randall Semagin, CT DEEP*)

11:00 – 11:15 Q&A Session

11:15 – 11:30 Let's Get Trivial – Day 3 AM

11:30 – 12:30 **LUNCH**

Campaign Updates

12:30 – 12:50 OWLETS Update (*Dr. John Sullivan, NASA*)
12:50 – 1:10 LISTOS Update (*Dr. Alex Karambelas, NESCAUM*)
1:10 – 1:30 Lake of Michigan Ozone Study (*Dr. Betsy Stone, University of Iowa*)
1:30 – 1:50 Gulf of Mexico Study (*Dr. Anne Thompson, NASA/University of Maryland*)
1:50 – 2:10 California Ozonesonde Study (*Dr. Ryan Stauffer, NASA/University of Maryland*)
2:10 – 2:30 Q&A Session

2:30 – 2:40 **BREAK**

2020 Events

2:40 – 3:00 NO2 and COVID-19 (*Dr. Daniel Goldberg, George Washington University*)
3:00 – 3:20 2020 NASA Projects (*Dr. Barry Lefer, NASA*)
3:20 – 3:40 Saharan Dust in Texas (*Weslee Copeland, TCEQ*)
3:40 – 4:00 Bay Area Forest Fires (*Duc Nguyen, Bay Area AQMD*)
4:00 – 4:15 Q&A Session

4:15 – 4:25 Let's Get Trivial – Day 3 PM

4:25 – 4:30 Day 3 – Wrap-up and Adjourn