

National Air Toxics Monitoring and Data Analysis Workshop

October 26-28, 2015

USEPA Headquarters

109 T.W. Alexander Drive, Research Triangle Park, NC 27701

Webinar Link: <http://epawebconferencing.acms.com/air-toxics-workshop/>

October 26, 2015 – 8:30 – 11:30 AM – Concurrent Training Sessions

1. **Laboratory Analysis Training at ERG facility (Max 30 people) 8:30-11:30am**
 - a. VOCs analysis – Canister preconcentration, GC/MSD analysis
 - b. Metals analysis by ICP/MSD
 - c. Semi-Vol extraction and GC/MSD analysis
2. **Air Toxics Data Analysis training, Room C111ABC**
 - a. DART – Data assessment and Reporting Tool – Jennifer Dewinter, STI, **8:30-9:50am**
 - i. A new web-based tool in [AirNow-Tech](#) that helps air quality scientists validate and analyze VOCs, air toxics, criteria, and other air quality measurements. The training will focus on the fundamentals, including how to bring data into the system and how to use DART to perform data validation. The demonstration will also include new features to be released later this month, such as the exciting new auto-screening functionality
 - b. Zero to “R” Shiny App Demonstration–Kali Frost, Eric Bailey, Nathan Byers, **10:10-11:30**
 - i. What is “R”? - free software widely used for air toxics, statistical analysis
 - ii. Air Toxics demo using “R” - view box plots, trends, scatter plots
 - iii. Data manipulation with dplyr and tidyr - getting raw data from AQS, and quickly aggregating it and summarizing it
 - iv. Plotting with open-air - making wind/pollutant roses
 - v. Shiny app demo - putting it all together on a free, shareable website
3. **Aethalometer Training – 8:30-11:30am Room C114**
 - a. AE33/TAPI-633 – George Allen
4. **NATA – National Air Toxics Assessment training (FOR STATES, LOCAL AND TRIBES ONLY)
Room C113 Ted Palma – 9:00-11:00am**

October 26, 2015 – 1:00 PM - Workshop Begins C111

	Topic	Presenter
Plenary Begins		
1:00-1:25	Opening Remarks	Chet Wayland, OAQPS
1:25-1:55	National Air Toxics Trends Stations (NATTS) Overview	David Shelow, OAQPS
1:55-2:30	NATTS QA Updates and Overview	Greg Noah, OAQPS
2:30-2:45	BREAK	
2:45-3:10	MDL – Method Update Rule vs Part 136	Doug Turner, Battelle
3:10-5:00	NATTS Technical Assistance Document Updates	David Shelow & Greg Noah, OAQPS Doug Turner, Battelle

October 27, 2015 – 8:00 AM – Air Toxics Data Analysis

	Topic	Presenter
8:00-8:05	Welcome and Introduction	Madeleine Strum, OAQPS
8:05-8:30	Monitoring in Minn. Collection, Validation, Analysis, Communication	Cassie McMahon, Minnesota Pollution Control Agency
8:30-8:55	Using R for Environmental Data Analysis	Kali Frost, Indiana University
8:55-9:20	DART – Data Analysis and Reporting tool	Hillary Hafner, Sonoma Technology Inc
9:20-9:40	NATTS Assessment and Data Archive	Regi Oommen, Eastern Research Group
9:40-10:00	BREAK	
10:00-10:20	Data Analysis Sensitivity	Elizabeth Mannshardt, OAQPS
10:20-10:40	National Air Toxics Data Analysis	Madeleine Strum, OAQPS

10:40-11:30 Open Forum for Data Analysis

M. Strum, Eli. Mannshardt

October 27, 2015 – 1:00 PM, Community Scale Air Toxics Studies and Other Air Toxics Studies

	Topic	Presenter
1:00-1:10	Welcome and 2015 CSATAM awards	Laurie Trinca, OAQPS
1:10-1:40	Calibrating Concerns about PAHs in Urban Air Using Monitoring and Modeling	Kristie Ellickson, Minnesota Pollution Control Agency
1:40-2:10	Reducing Exposure to Airborne Chemical Toxics	Larry Smith, Shelby County Health Department
2:10-2:40	Assessment of Effectiveness of New Mobile Source Air Toxics Regulations in Reducing Ambient Concentrations of Benzene and Other Air Toxics in Anchorage – Phase 2	Stephen Morris, Municipality of Anchorage

2:40-3:00 BREAK

3:00-3:30	South Philadelphia Community Continuous Air Toxics Monitoring Project	Dennis Sosna, Philadelphia AMS
3:30-4:00	MATES IV, South Coast Air Quality Management Dist.	Jason Low, South Coast AQMD
4:00-4:30	Boston MA. Black Carbon Trends Analysis	George Allen, NESCAUM
4:30-5:00	National Monitoring Program Annual Report for 2013	Jamie Hauser, Eastern Research Group

October 28, 2015 – 8:00 AM, Air Toxics Methods

8:00-8:25	Improving the Analysis of Acrolein in Ambient Air	Don Whitaker, ORD
8:25-8:50	Method Optimization of TO-11A	Ian MacGregor, Battelle
8:50-9:15	Submillimeter Wave Spectroscopy for Real Time Measurements of Carbonyls in Ambient Air	Chris Ball, Ohio State University
9:15-9:40	Canister Cleaning Study	Wayne Whipple, EPA Region 5

9:40-10:00 BREAK

	Topic	Presenter
10:00-10:25	Evaluation of VOC Sensors	Ron Williams, ORD
10:25-10:50	TO Methods Update	Lara Phelps, OSA
10:50-11:15	PAMS update	Kevin Cavender, OAQPS

October 28 – 12:45 PM, Plenary Open Forum Panel Discussion and Other EPA Groups

12:45-2:00 Open Forum Panel Discussion

2:00-2:15 BREAK

2:15-2:40	AQS Update for Air Toxics	Robert Coats & Nick Mangus, OAQPS
2:40-3:05	2011 NATA Update	Ted Palma, OAQPS
3:05-3:30	Visible Communities Initiative	Holly Wilson, OAQPS
3:30-3:55	Petroleum Refinery Fenceline Monitoring – Method 325 A & B	Jason Dewees, OAQPS
3:55-4:15	Closing Remarks	David Shelow, OAQPS

Thanks for Coming!!!