MARAMA
Mid Atlantic Regional Air Management Association, Inc.

DRAFT (SUBJECT TO CHANGE) AS OF 10.29.26

2026 MARAMA AIR MONITORING COMMITTEE HYBRID WORKSHOP AGENDA
NOVEMBER 16-19, 2026

In-Person	Virtual
Embassy Suites, BWI **1300 Concourse Dr, Linthicum Heights, MD 21090**	**Microsoft Teams –** Links below for each day/training track.

Workshop Objectives

Day 1 of the workshop will feature targeted training including hands-on equipment training with Teledyne & Met One, and data analysis/data visualization methods. Additionally, this year's workshop will include roundtable discussions with state, local, and tribal agencies, updates from EPA Regions 1-4 and OSAP, and presentations from invited speakers. Presentations will cover a variety of topics including (but not limited to) air sensor projects/studies, PAMS implementation, quality assurance, and federal program updates, including the EPA's Air Hub.

Day 1 - Training Day: Monday, November 16th		
8:00 – 9:00 am	**Complimentary Breakfast (for hotel guests only)**	
Track 1A – Hands-On Equipment Training (1 of 3 options) **Featuring Teledyne Equipment Training** **Meeting Room: TBD** **Microsoft Teams Link**		
9:00 am – 10:30 am	Teledyne hands on training on samplers/sensors Topics: Calibrator connections for verification of Photometer	Paul Celendro, *Teledyne* Erik Mallory and Thomas Wilbur, *Wilbur Technical Services*
10:30 – 10:45 am	**BREAK**	
10:45 am – 12:00 pm	Teledyne hands on training on samplers/sensors Topics: Back Pressure Compensation – Why it is needed, when to do it, how to do it.	Paul Celendro, *Teledyne* Erik Mallory and Thomas Wilbur, *Wilbur Technical Services*
12:00 – 1:00 pm	**Networking Lunch and Break**	
1:00 – 2:30 pm	Teledyne hands on training on samplers/sensors Topics: N-Series (voltage changes NOX/SOX PMT Adjustment change. N400 Lamp Voltages settings	Paul Celendro, *Teledyne* Erik Mallory and Thomas Wilbur, *Wilbur Technical Services*
2:30 – 2:45 pm	**BREAK**	

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2:45 – 4:00 pm	Teledyne hands on training on samplers/sensors Topics: T640 Flow verification acceptance range, when to calibrate. Procedural recommendations for initial testing of new analyzers/calibrators from the factory.	Paul Celendro, *Teledyne* Erik Mallory and Thomas Wilbur, *Wilbur Technical Services*

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Track 1B – Hands-On Equipment Training (2 of 3 options) Featuring Met One (ACOEM) Equipment Training Meeting Room: TBD Microsoft Teams Link		
9:00 am – 10:30 am	Met One hands on training on samplers/sensors Topics: OPX 1025 (New optical mass monitor)	Bryan Bibeau, David Gilmore, and David O'Malley, *ACOEM*
10:30 – 10:45 am	**BREAK**	
10:45 am – 12:00 pm	Met One hands on training on samplers/sensors Topics: Serinus Gas Analyzers & Calibrators	Bryan Bibeau, David Gilmore, and David O'Malley, *ACOEM*
12:00 – 1:00 pm	**Networking Lunch and Break**	
1:00 – 2:30 pm	Met One hands on training on samplers/sensors Topics: BAM 1020 / BAM 1022 (PM monitors)	Bryan Bibeau, David Gilmore, and David O'Malley, *ACOEM*
2:30 – 2:45 pm	**BREAK**	
2:45 – 4:00 pm	Met One hands on training on samplers/sensors Topics: C-12 (Black Carbon) / AIO2 (Meteorology) / Loggers and Software	Bryan Bibeau, David Gilmore, and David O'Malley, *ACOEM*

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Track 1C – Hands-On Equipment Training (3 of 3 options) Featuring ORSAT PAMS Training Meeting Room: TBD Microsoft Teams Link		
9:00 am – 10:30 am	ORSAT – Auto GC Training Topics: Equipment (CAS, Markes Agilent, PerkinElmer)	Amy Plummer and Carol Meyer, *ORSAT*
10:30 – 10:45 am	**BREAK**	
10:45 am – 12:00 pm	ORSAT – Auto GC Training Topics: Equipment (CAS, Markes Agilent, PerkinElmer)	Amy Plummer and Carol Meyer, *ORSAT*
12:00 – 1:00 pm	**Networking Lunch and Break**	
1:00 – 2:30 pm	ORSAT – Auto GC Training Topics: Data Validation	Amy Plummer and Carol Meyer, *ORSAT*
2:30 – 2:45 pm	**BREAK**	
2:45 – 4:00 pm	ORSAT – Auto GC Training Topics: Data Validation	Amy Plummer and Carol Meyer, *ORSAT*

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Track 2 – Data Visualization / Data Analysis Training Python Programming Interactive Experience – Laptops Encouraged Meeting Room: TBD Microsoft Teams Link		
9:00 am – 10:30 am	Python Data Visualization / Data Analysis Training Topics: Overview of Python and Simple Statistics in Python	Maurice Roots, *UMBC* Sharad Pandey, *UMBC* Joshua Richards, *UMBC*
10:30 – 10:45 am	**BREAK**	
10:45 am – 12:00 pm	Python Data Visualization / Data Analysis Training Topics: Data Analysis Techniques and Simple Plotting	Maurice Roots, *UMBC* Sharad Pandey, *UMBC* Joshua Richards, *UMBC*
12:00 – 1:00 pm	**Networking Lunch and Break**	
1:00 – 2:30 pm	Python Data Visualization / Data Analysis Training Topics: Python Tools for Atmospheric Science	Maurice Roots, *UMBC* Sharad Pandey, *UMBC* Joshua Richards, *UMBC*
2:30 – 2:45 pm	**BREAK**	
2:45 – 4:00 pm	Python Data Visualization / Data Analysis Training Topics: Analysis Workflows and Pipelines	Maurice Roots, *UMBC* Sharad Pandey, *UMBC* Joshua Richards, *UMBC*

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Day 2: Tuesday, November 17th Meeting Room: TBD Microsoft Teams Link		
7:00 – 8:00 am	**Complimentary Breakfast (for hotel guests only)**	
8:00 – 8:45 am	Welcome to Day 2, Introductions, and Review AM Agenda	Marc Cone, *MARAMA* Sean Nolan, *PA DEP*
Keynote Speaker		
8:45 – 9:15 am	How has Air Quality improved in MD over the years?	Chris Hoagland, *MDE Air Director*, *(Confirmed)*
9:15 – 9:30 am	Q&A Session	
EPA OSAP and Regional Office Overview		
9:30 – 9:45 am	EPA OSAP Air Monitoring Program Update	Rachelle Duvall, *EPA OSAP* *(Confirmed)*
9:45 – 10:00 am	EPA OSAP Air Monitoring Technology Program Update	Corey Mocka, *EPA OSAP* *(Confirmed)*
10:00 – 10:15 am	EPA OSAP Air Quality Analysis Branch Update	Gene Stroup, *EPA OSAP* *(Confirmed)*
10:15 – 10:25 am	Q&A Session	
10:25 – 10:45 am	**BREAK**	
10:45 – 11:00 am	EPA Region 1 Update	Leiran Biton, *EPA Region 1* *(Confirmed)*
11:00 – 11:15 am	EPA Region 2 Update	Gavin Lau, *EPA Region 2* *(Confirmed)*
11:15 – 11:30 am	EPA Region 3 Update	Kia Long, *EPA Region 3* *(Confirmed)*
11:30 – 11:45 am	EPA Region 4 Update	Erin Frew / Ryan Brown, *EPA Region 4* *(Confirmed)*
11:45 am – 12:00 pm	Q&A Session	
12:00 – 1:30 pm	**Working Lunch and Break** – EPA's Air Hub	Marcus Hylton, *TD Enviro* Chad Thacker, *Valiant Solutions* (*Confirmed*)
1:30 – 1:45 pm	Review PM Agenda	Sean Nolan, *PA DEP*
Program Updates		
1:45 – 2:00 pm	EPA AirNow Update	Akachi Imegwu and John White, *EPA OSAP* *(Confirmed)*
2:00 – 2:15 pm	USDA Smoke Outlook Presentation	Peter Lahm, *US Forest Service* *(Confirmed)*

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2:15 – 2:30 pm	Clean Air Status & Trends Network (CASTNET) 2026 Update	Melissa Puchalski, *EPA OSAP* *(Confirmed)*
2:30 – 2:45 pm	National Atmospheric Deposition Program (NADP) Update	Dr. Sarah Benish, *NADP* *(Confirmed)*
2:45 – 3:00 pm	IMPROVE Monitoring Program Updates	Bret Schichtel, *National Park Service* *(Confirmed)*
3:00 – 3:15 pm	EPA Update – Recent EPA Air Toxics Data Analysis Activities	Regi Oommen, *ERG* *(Confirmed)*
3:15 – 3:30 pm	Q&A Session	
3:30 – 3:45 pm	**BREAK**	
Quality Assurance		
3:45 – 4:00 pm	EPA OSAP Update	Greg Noah, *EPA OSAP* *(Confirmed)*
4:00 – 4:15 pm	EPA Region 3 Update	Keith Hoffman, *EPA Region 3* *(Confirmed)*
4:15 – 4:30 pm	State/Local Agency Update – NATTS and Air Toxics	Andrea Galasyn, *ME DEP* *(Confirmed)*
4:30 – 4:40 pm	Q&A Session	
4:40 – 5:00 pm	Day 2 – Wrap-up, Quizzical, and Adjourn	
EVENING FIELD TRIP		
6:00 – 8:00 pm	Social Event: Axe Throwing	

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Day 3: Wednesday, November 18th Meeting Room: TBD Microsoft Teams Link		
7:00 – 8:00 am	**Complimentary Breakfast (for hotel guests only)**	
8:00 – 8:15 am	Welcome to Day 3 and Review AM Agenda	Sean Nolan, *PA DEP*
8:15 – 8:45 am	Fireside Chat with Alice Chow	Alice Chow, *Formerly EPA Region 3 (Confirmed)*
8:45 – 9:00 am	Q&A Session	
PAMS Implementation		
9:00 – 9:15 am	PAMS Program Updates 2026	Berkley Hillis and Elizabeth Good, *EPA OSAP (Confirmed)*
9:15 – 9:30 am	Unified Ceilometer Network (UCN) Update	Jim Szykman, *EPA OCAP (Confirmed)*
9:30 – 9:45 am	Battelle Update	Carie Curry / Doug Turner, *Battelle (Confirmed)*
9:45 – 10:00 am	Louisville APCD PAMS Update	Andrea Cooley, *Louisville Metro Air Pollution Control District (Confirmed)*
10:00 – 10:15 am	Q&A Session	
10:15 – 10:30 am	ACHD Air Toxics Study	David Good, *Allegheny County Health Department (Confirmed)*
10:30 – 10:35 am	Q&A Session	
10:35 – 10:50 am	**BREAK**	
2026 Worldwide Air Quality Events		
10:50 – 11:05 am	2026 Overview of Worldwide Events by the Copernicus Atmosphere Monitoring Service	Dr. Mark Parrington, *ECMWF (Confirmed)*
11:05 – 11:20 am	2026 PM2.5 Event in the Monongahela River Valley	Jason Maranche, *Allegheny County Health Department (Confirmed)*
11:20 – 11:35 am	Forecasting Wildfire Smoke in Colorado and 2026 Season Recap	Scott Landes, *Colorado Department of Public Health and Environment (Confirmed)*
11:35 – 11:50 am	2026 Soccer-AQ Monitoring Campaign	Hannah Daley, *U. of Maryland (Confirmed)*
11:50 – 12:00 pm	Q&A Session	
12:00 pm – 1:30 pm	**Working Lunch and Break – T640 / T640x Presentation**	Dr. Peter DeCarlo, *Johns Hopkins U. (Confirmed)*

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1:30 – 1:45 pm	Review PM Agenda	Sean Nolan, *PA DEP*
Panel Discussion on Air Monitoring Program Management		
1:45 – 3:00 pm	S/L/T air monitoring personnel discuss the current state of the Air Monitoring Program along with existing challenges, etc. Panelists include the following: 1. Chuck Turner, *VA DEQ* 2. Nick Lazor, *PA DEP* 3. David Good, *ACHD* 4. Renu Chakrabarty, *WV DEP* 5. Tristan Bostock, *DE DNREC* 6. Ryan Auvil, *MDE* 7. Anthony Carl, *NJ DEP* 8. Erica Wolf, *MI EGLE*	
3:00 – 3:15 pm	**BREAK**	
3:15 – 3:45 pm	S/L/T air monitoring personnel discuss potential solutions to items brought up pre-break.	
Campaign Updates and Future Projects		
3:45 – 4:00 pm	2026 TexAQS Study	Dr. Carsten Warneke, *NOAA* *(Confirmed)*
4:00 – 4:15 pm	TEMPO/TROPOMI NO2 Analysis Update	Dr. Daniel Goldberg, *George Washington University* *(Confirmed)*
4:15 – 4:30 pm	2026 EPA TEMPO Validation Activity Update	Dr. Barron Henderson, *EPA OSAP* *(Confirmed)*
4:30 – 4:40 pm	Q&A Session	
4:40 – 5:00 pm	Day 3 – Wrap-up, Quizzical, and Adjourn	

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Day 4: Thursday, November 19th Meeting Room: TBD Microsoft Teams Link		
7:00 – 8:00 am	**Complimentary Breakfast (for hotel guests only)**	
8:00 – 8:15 am	Welcome to Day 4 and Review Agenda	Sean Nolan, *PA DEP*
8:15 – 8:45 am	Forecasting Tomorrow's Ozone: Machine Learning for Mississippi's Monitoring Network	Rodney Cuevas, *MS DEP (Confirmed)*
8:45 – 9:00 am	Q&A Session	
Air Sensor Studies (10-Minute Lightning Round)		
9:00 – 9:10 am	EPA Regional Office Sensor Loan Program	Michelle Coombs, *EPA Region 1 (Confirmed)*
9:10 – 9:20 am	Making Sense of Scents with Sensors	Joel Dreessen, *MDE (Confirmed)*
9:20 – 9:30 am	Johns Hopkins University Sensor Study	Dr. Chris Heaney, *JHU (Confirmed)*
9:30 – 9:40 am	VA DEQ Northern VA Data Center Sensor Study	Charles Turner, *VA DEQ (Confirmed)*
9:40 – 9:50 am	DC DOEE Air Quality Dashboard	Kane Samuel, *DC DOEE (Confirmed)*
9:50 – 10:00 am	Q&A Session	
10:00 – 10:15 am	**BREAK**	
Air Sensor Studies (cont.) and Other Projects (10-Minute Lightning Round)		
10:15 – 10:25 am	WV DEP Leveraging AI for Air Monitoring Project	Derek Hancock, *WV DEP (Confirmed)*
10:25 – 10:35 am	GA EPD Air Sensor Study	Tanvir Khan, *NCASI (Confirmed)*
10:35 – 10:45 am	NJ DEP Mobile Air Toxics Monitoring Project	Jeff Cantor, *NJ DEP (Confirmed)*
10:45 – 10:55 am	PA DEP Meteorological Audit Trailer	Eric Champlin and Timothy Matzik, *PA DEP (Confirmed)*
10:55 – 11:15 am	SCAQMD AQ-SPEC – Program Overview and Long-Term Sensor Testing Results	Wilton Mui, *South Coast AQMD (Confirmed)*
11:15 – 11:30 am	Q&A Session	
11:30 – 12:00 pm	Day 4 – Final Quizzical, Wrap-up and Adjourn	

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