

**National Atmospheric Deposition Program (NADP)
Council of State and Territorial Epidemiologists (CSTE)**

Aeroallergen Monitoring Science Committee Meeting

In-person & Virtual via Zoom (details below on page 2)

The AMSC meeting will be held on May 2, 2023 from 1:30 PM – 5:00 CT, both in-person in Madison, WI and remotely via Zoom. Please see the information on Page 2 about the Zoom links for the meeting (taken from the NADP website at: <https://nadp.slh.wisc.edu/spring2023/>)

FINAL AGENDA

1. Welcome – Zoom Logistics – Introductions (5 minutes) | Andy Johnson
2. Approval of November 15, 2022 meeting minutes (5 minutes) | Selma Isil and All
3. Recap of activities since November 15, 2022 meeting (5 minutes) | Andy and All
4. Update on “Initial Comparison of Pollen Counts in Precipitation and Ambient Air Samples to Traditional and Artificial Intelligence Counting Methods for a National Pollen Monitoring Network”; publication in the journal *Aerobiologia* (10 minutes) | Greg Wetherbee
5. Stakeholder Updates: (approximately 30 minutes)
 - CSTE: Jeremy Hess/Fiona Lo/Kyra Parks (TBD)
 - CDC: Claudia Brown/Arie Manangan)
 - NAB: Dan Dalan (TBD)
 - ARL: Daniel Coates (TBD)
 - Pollen Sense: Landon Bunderson
Discussion Item: What needs to happen to facilitate PS providing their historical dataset to AMSC?
 - EPA: Melissa Puchalski: Potential Deployment of Pollen Sense analyzers at CASTNET sites (15 minutes)
 - CityDep: Greg Wetherbee
Discussion Item: Polling of urban site sponsors to gauge interest level in making aeroallergen measurements?
6. Presentation: “The Pollen Monitoring Landscape in Maine – Latest Update” (15-20 minutes)
Andy Johnson
7. Topics for further discussion:
 - What is the best way to bring everyone together to move forward on addressing identified goals, needs, etc.?
 - Proposed quarterly calls, convened by AMSC, of researchers and data users to address scientific questions and data needs, improvement of identification algorithms and quality assessments?
 - ✓ Process for using IMPROVE filter analysis results for aeroallergens to improve AI’s particle identification algorithms (specifically for grasses & weeds)?
 - How best to address the really big challenge of how to merge/harmonize all the data from the different networks?
 - What would be the best way to aggregate data to share with local communities impacted by aeroallergens. High, medium, low days? Review/demo of PollenWise app?
 - How will EPA make the data publicly accessible?

- Feedback on EPA-CASTNET proposal from CDC?
 - Operational and QA/QC considerations for PS-400 samplers; creation of instrument SOPs.
 - ✓ Need for flow measurements.
 - ✓ Need for a permanent data logger?
 - ✓ Differential flow pressure gauges?
 - Need for a FTE at NADP or EPA to work on all data related issues (accessing, harmonization, QA/QC, etc.). How to go about making this a reality?
 - Further considerations for a true national network: after NAB and CASTNET sites are in place, locations of other sites, both urban and rural, to fill in spatial gaps and for representation of sensitive populations.
 - Study to figure out spatial representativeness for a single sampler: micro, middle neighborhood, urban, regional. etc.
 - Explore the creation of a “white paper” to present to NADP’s Executive Committee to layout the organization’s proposed roles (e.g., what would a national database look like?)
8. Wrap up and adjourn

ZOOM REGISTRATION

There will be two different Zoom links for all of the meetings, and you will need to register for each zoom link that you want to attend, although you only need to register once to attend multiple meetings on the same link. After registering, you will receive a confirmation email containing information about joining the meeting.

NADP Link#1 Registration: TDep, MELD, AMSC, Joint, NOS, EOS
May 1-4, 2023

Register in advance for these meetings on this link:

<https://uwmadison.zoom.us/meeting/register/tJwqfuqprD8vHdQDocgLoKR9QjhknqD3XcMK>

NADP Spring In-Person Meeting Information

If you are attending the Spring 2023 meetings in Madison, WI in-person from May 1 - 5, don’t forget to register on the NADP website here: <https://nadp.slh.wisc.edu/spring2023/>

The meetings will take place on the UW Madison campus at the Pyle Center.



NADP MISSION is to:

- *Provide quality-assured data and information to support research on the exposure of managed and natural ecosystems and cultural resources to acidic compounds, nutrients, mercury, and base cations in atmospheric deposition.*
- *Remain one of the nation's premier cooperative research support programs, serving science and education and supporting communication and informed decisions on air quality issues affecting ecosystems and human health.*
- *Respond to emerging issues and evaluate changes in its measurement systems, including the addition of other chemical and biological species.*

**NADP Aeroallergen Monitoring Science Committee (AMSC)
Mission, Charges and Priority Task Areas**

Mission and Charges of the AMSC

The mission of the Aeroallergen Monitoring Science Committee (AMSC) is to engage multi-disciplinary stakeholders in advancing the science of aeroallergen monitoring, including identifying emerging technologies, evaluating methods to ensure data quality, coordination of monitoring stations, and possibly serving as a repository of long-term aeroallergen monitoring data.

The specific charges of AMSC are to:

- Support the NADP's mission to "respond to emerging issues and evaluate changes in its measurement systems, including the addition of other chemical and biological species" by advancing the science of aeroallergen monitoring.
- Further the NADP's vision to "remain one of the nation's premier cooperative research support programs, serving science and education and supporting communication and informed decisions on air quality issues affecting ecosystems and human health."
- Engage stakeholders in effective decision making, identify priority research areas, facilitate outreach and education, and seek research funding.
- Support national networks that monitor aeroallergens by providing information on emerging measurement techniques, supporting efforts to standardize methods, quantifying data quality indicators, and providing best practices for data and information storage for long-term trend analysis.
- Identify and prioritize knowledge gaps in the field of measuring and modeling aeroallergens and advocate for research to address those gaps.
- Support development of models for the forecast, emission, transport, and removal of aeroallergens from the atmosphere.
- Create and maintain communication links between the aeroallergen research community and the Executive Committee to foster collaboration with the NADP's existing network of stations as a core component of the U.S. aeroallergen monitoring network.
- Encourage greater communication and collaboration between groups from different disciplines and countries with interests in aeroallergen monitoring, including NADP data users, by organizing scientific workshops and symposia at NADP meetings and with other scientific organizations.
- In collaboration with CSTE and other partners, revise the AMSC charge as the aeroallergen monitoring network is implemented.