

US EPA ARCHIVE DOCUMENT

Community Air Monitoring Training: A Glimpse into EPA's Air Sensor Toolbox



**Thursday July 9th, 2015; 8:30am to 5:30pm
at EPA's Facility in Research Triangle Park, NC**

Goal: EPA will host a training workshop to share tools used to conduct citizen science projects involving Next Generation Air Monitoring (NGAM) technology and to educate interested groups and individuals on best practices for successful air monitoring projects.

Learning Objectives: Participants will learn about air quality basics, air pollution monitoring, how to start a citizen science program, citizen science study design, how to obtain funding, what to look for in a sensor, sensor applications and performance goals, how to collect useful data using sensors, data management and quality, maintaining sensors, interpreting and communicating data, and lessons learned from past community air monitoring projects.

Target Audience: Invited community action groups, nonprofit organizations, Tribal offices. 30-50 in-person, 500 via webinar. **Presentations will be videotaped and posted on the [Air Sensor Toolbox](#) webpage following the event.**

Presentation Topics

(30 min each)

- Air Quality Basics, Air Pollution Monitoring, Sensor Technology, Performance Goals
- How to Start a Citizen Science Program
- Citizen Science Study Design
- Data Measurement, Management, Quality, Uncertainty
- Quality Assurance
- Short Term Measurements and Air Quality Messaging/ Regulatory Requirements for Data

Breakout Sessions

(attendees rotate, 20 min each)

- C-FERST/ T-FERST Demonstration
- RETIGO Demonstration
- Citizen Science Air Monitoring Success Story: Tonawanda, New York
- General Advice on How to Plan a Study
- Facilitated Discussion on Individual Experiences, Inquiries, Lessons Learned
- Hands-on Sensor Demonstration
- Citizen Science Study Design- Case Studies From 13 Years in Citizen Science

Hosted by EPA's Air, Climate, and Energy Research Program, Office of Air Quality Planning and Standards and Regional offices.

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