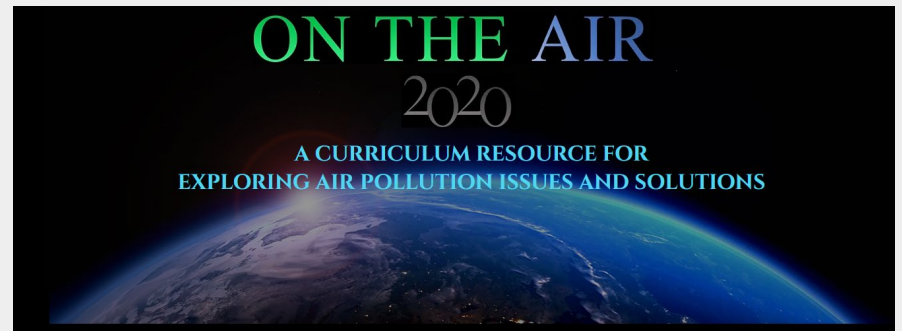


Education Program Report to the Board of Directors

by Elizabeth Spike
Education Program Manager
September 21, 2023



Education Program

2007

On the Air curriculum developed and piloted with BW teachers.

2008

Education Program Manager delivers formal, non-formal outreach, Teacher PD, contests, and science fairs.

2020

On the Air curriculum redesigned with air quality/climate change/community focus.

2023

Train-the-trainer approach to build capacity in BW teachers to lead AQ and CC Education.

How can we educate students to transform awareness of air quality and climate change into personal actions that protect their communities from air pollution and climate change impacts in the Baltimore-Washington region?

| | | | |
|--|---|---|--|
| Objective: Promote the use of <i>On the Air</i> curriculum. (FY 2023 Work Plan) | | | |
| Activity | Target CAP participating member school systems, charter, private, and independent schools in the District of Columbia, Maryland, and Northern Virginia. | Build relationships with stakeholders in public, charter, private and independent schools, school districts, and teachers of grades 5-12 across the BW region to create legacy and longevity for the CAP's Education Program. | Develop evaluation tools to conduct a needs assessment and gauge the extent of promoting the <i>On the Air</i> © curriculum and Train-The-Trainer model in the BW region. |

On the Air Train-the-Trainer model for school year 2023-2024

Data and Feedback inform planning and programming

Lead Teachers are paid for training colleagues



Teachers in the Baltimore Washington region

Lead Teacher Learning Community

Free Training:
July or September followed by check-in meetings

Lead Teachers train colleagues in their school districts

Leader Teacher Learning Community Debrief Focus Group

Activities since April 2023

***On the Air* prep for July training: 10 out of 51 activities were developed to be more 'drop-in' ready for teachers**

10 activities: 2 from each of the five modules

- **Module 1 Our Lungs, Our Air, Our Health**
- **Module 2 What's the Air Forecast**
- **Module 3 Air Pollution in the Community**
- **Module 4 Air and The Chesapeake Bay**
- **Module 5 Air and Climate Change**

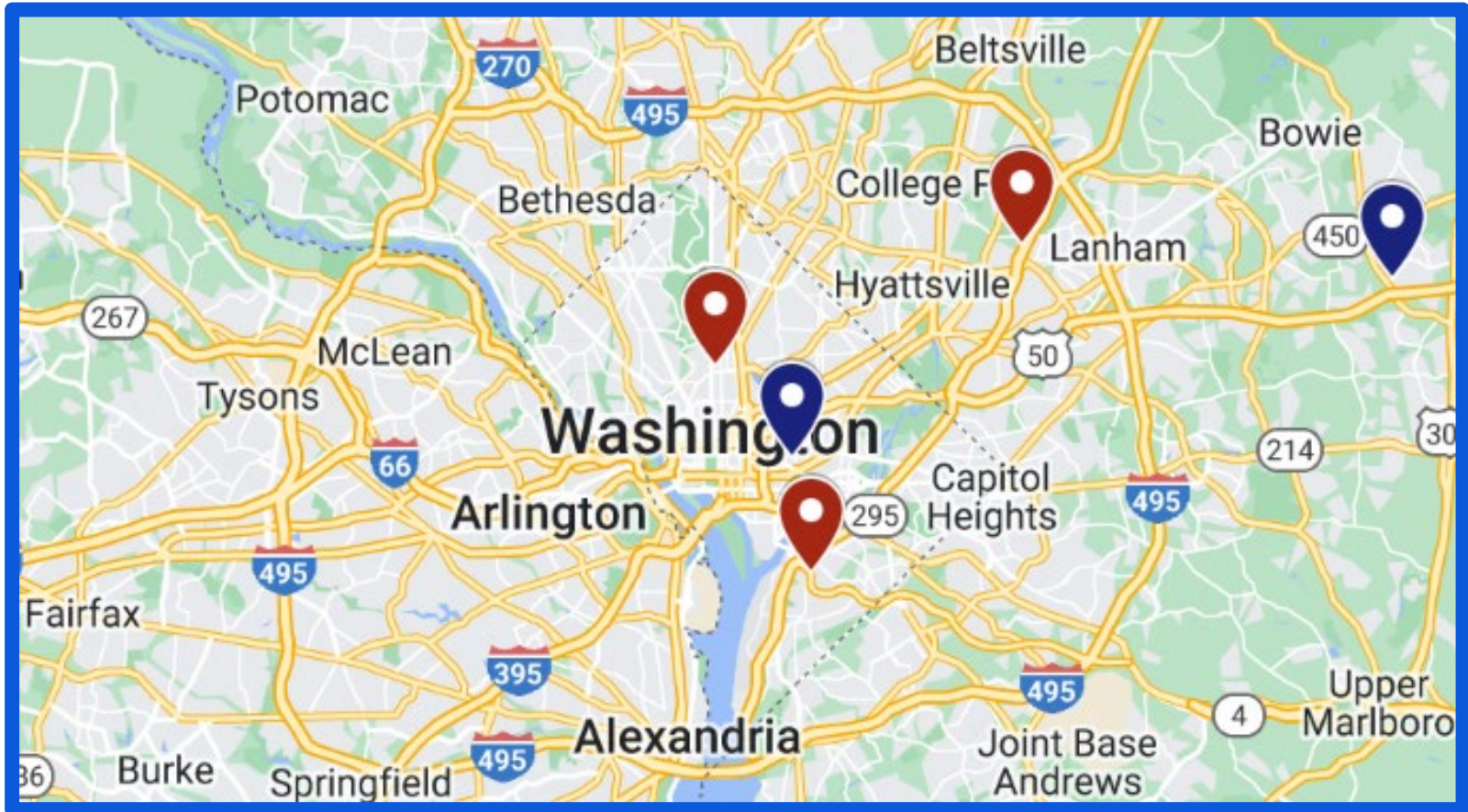
Lead Teacher Learning Community training in July (7/25, 7/26, and 7/27)

- **Three teachers: District of Columbia and Prince George's County**
- **Three CAP Board Members**

Feedback about the activities

- **Impression of the activity**
- **Likelihood to teach the activity**
- **One strength and one limitation of the activity**
- **Additional work for teachers to adopt the activity**

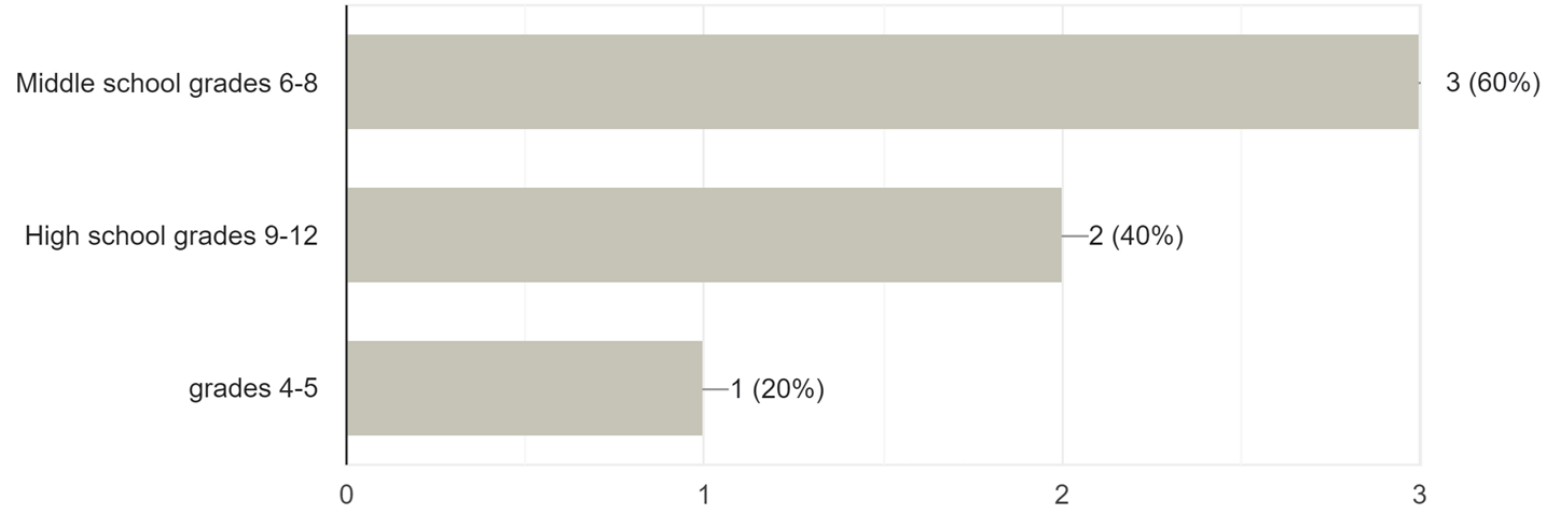
Lead Teacher Learning Community



A little about our Lead Teachers...

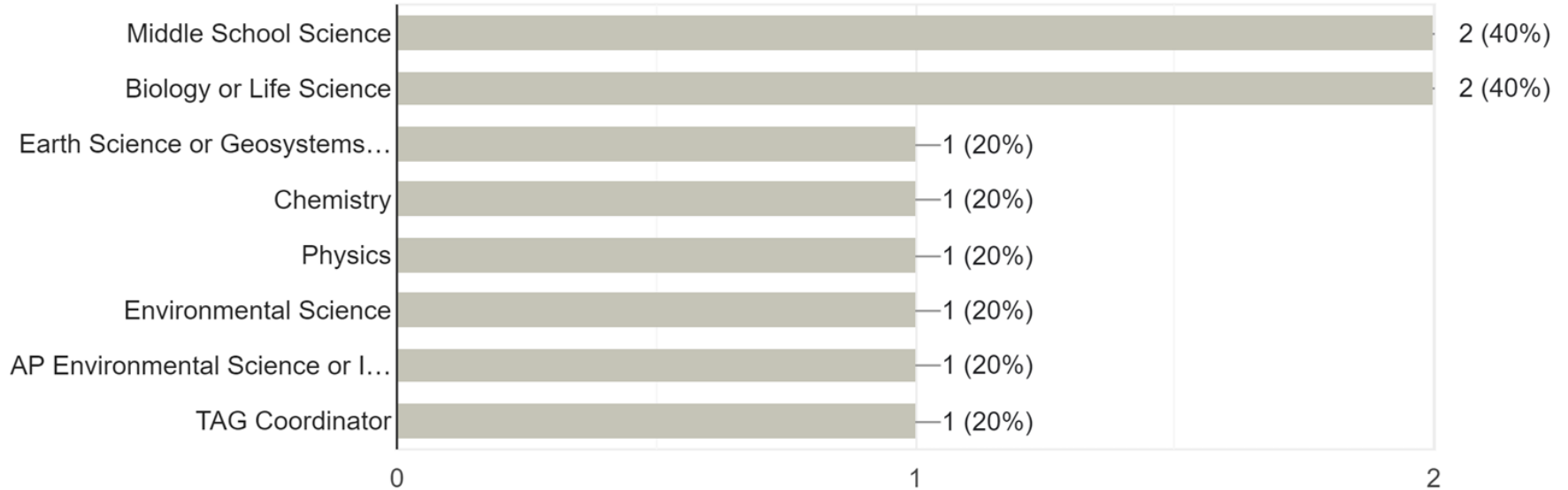
Grade levels you teach?

5 responses



Subjects you teach?

5 responses



Lead Teachers were also asked about...

- Experience collaborating with other teachers
- Experience delivering professional development
- Motivation to join the Lead Teacher Learning Community

Activities since April 2023

- Introduced myself to our Constant Contact database as the new Education Program Manager
- Updated the *On the Air* website
 - <https://www.ontheair.cleanairpartners.net/>
 - Added **Lead Teacher** page and new resource pages like **Low Cost Sensors** and **Online Resources**
 - Reorganized the **main** page, **About CAP**, **Contact Us** pages
 - Updated the **Air Quality in the News** page
- Coordinated with teachers in Prince George's County and Cheverly Green Infrastructure Committee

Activities since April 2023

- Co-presented with DCSEU to UDC Master Gardeners re: AQ and gardening
- AQ outreach for Tuscarora High School Summer Camp for grades 6, 7, and 8 (Frederick County)
- Interviewed by Eliot Hine middle school students/GW Civic Changemaker Program Intern

Upcoming activities

- Lead Teachers Community Training in September 26, 27, and 28, 2023
- Proposed joint presentation with VDOT to FCPS teachers this Fall 2023
- Proposed Curtis Bay outreach with MDE Spring 2024 <https://ilovecurtisbay.com/>
- Keynote and Low Cost Sensor Support at Howard County Conservancy with 9th graders Spring 2024—planning <https://www.howardnature.org/>

Upcoming activities

- Potential collaboration with DOEE's Community Data Health Initiative LCS project near DCPS schools <https://datasmart.hks.harvard.edu/community-data-health-initiative>
- Potential collaboration with schools inside the Cheverly AQ Monitoring project [The Cheverly Air Quality Monitoring Project](#)
- Attended CEEJH's 9th annual Environmental Justice Symposium—outreach and partnerships <https://www.ceejh.center/>
- Preparing for AWMA EJ Conference in Arlington, VA and NSTA Conference in Kansas City, MO (October) to present Clean Air Partners' work with BW teachers to use *On the Air* curriculum <https://www.awma.org/ejregistration> and <https://www.nsta.org/kc23>

Data and Metrics

Objective:

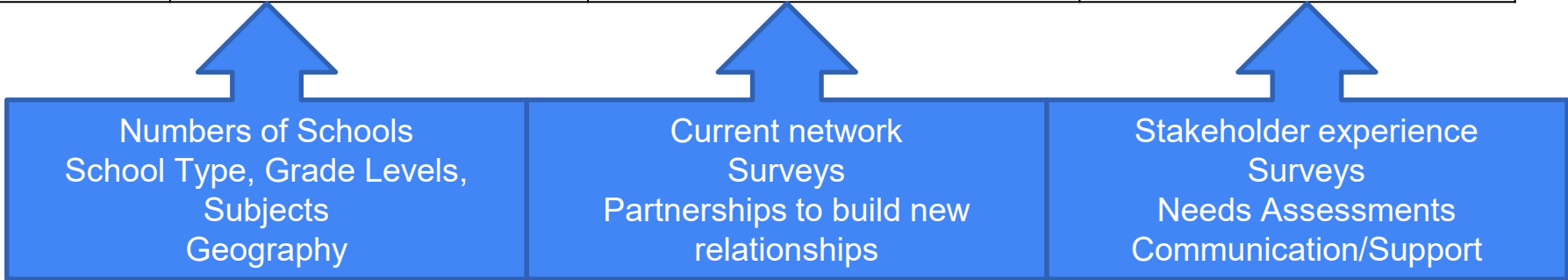
Promote the use of
On the Air curriculum.
(FY 2023 Work Plan)

How can we educate students to transform awareness of air quality and climate change into personal actions that protect their communities from air pollution and climate change impacts in the Baltimore-Washington region?

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DATA / METRICS



Questions?
Additional metrics?

Needs of the Education Program

To sustain the train-the-trainer model we need **ongoing funding** for

- Teacher payments for training with me and training their colleagues

Explore sources—grants and foundations as well as private sponsorship

- EPA Environmental Education grant
- Foundations
- Private sector sponsorship

My Ask to our private sector Board Members

- Can you work with me to develop targeted materials, such as letter of inquiry?

**Thank you
Questions?**

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<https://www.ontheair.cleanairpartners.net/>

<https://www.linkedin.com/in/elizabeth-spike-8a4967a/>