

Clean Air Partners Board Meeting

Education Program Updates

Elizabeth Spike, Education Program Manager

January 25, 2024



How can we educate students to transform awareness of air quality and climate change into personal actions that protect their communities 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.
DATA / METRICS			
	Numbers of Schools	Current network	Stakeholder experience
	School Type, Grade Levels,	Surveys	Surveys
	Subjects	Partnerships to build new	Needs Assessments
	Geography	relationships	Communication/Support

Promote the use of *On the Air* curriculum: Target CAP participating member school systems



**January 10, 2024
CAP/LTLC
presentation to
PGCPS teachers @
Schmidt
Environmental Center,
K-12 teachers and
admin/leadership**



**VDOT/CAP co-
presentation to APS
middle/high school
teachers February 7,
2024**



**EVADC/CAP co-
presentation-3
webinars offered to
APS, FCPS, PGCPS
middle/high school
teachers**



**Series of LTLC
Information Sessions
for winter/spring
2024, see slide 5**

Driving Electric Webinar for Educators

When: Third Thursdays: February 15, March 21, and April 18, 2024

Where: Online; link to be sent closer to webinar dates

Time: 5:00pm - 6:30pm

Who: Clean Air Partners and EVADC

Questions: Contact Elizabeth Spike, Education Program Manager for Clean Air Partners at espike@cleanairpartners.net

Send us your questions/topics you want covered. EVADC will present a variety of topics followed by a demonstration of an *On the Air* activity for your classroom.

Note: Additional webinars can be scheduled as needed, including content intended for students. EVADC also has a program to bring EVs to schools to show these vehicles to students and answer their questions.

Electric Vehicles: Today and for the Future

Join Clean Air Partners and EVADC for a webinar series on Electric Vehicles. Topics to be covered include the following. We will have breakout sessions based on attendee interest.

Session 1: February 15, 2024

- EV 101-The Basics of EVs
- EV Charging
- Incentives and Policy Support
- On the Air Activity

Session 2: March 21, 2024

- EV Clean Air Benefits
- EV Buses and Other Large Vehicles
- EV Economics and Health Benefits
- On the Air Activity

Session 3: April 18, 2024

- EV and Critical Minerals
- EVs as part of a circular economy
- Options for Creating Content and Programs for your Students
- On the Air Activity



Clean Air Partners: CAP is a non-profit (501-c3), public-private partnership educating individuals, businesses, and organizations in the greater metropolitan Baltimore-Washington region about health risks associated with poor air quality and the impacts on our environment.

EVADC: The Electric Vehicle Association of Greater Washington, DC, is an organization of electric vehicle owners, educators and enthusiasts dedicated to promoting the use of electric vehicles (EVs) as an environmental and energy benefit to society. EVADC was formed in 1980 and holds regular monthly meetings, public displays, car shows and more to educate people on EVs.

REGISTER for **Electric Vehicles: Today and for the Future**
<https://forms.gle/9rB21jXhA3Rn1947>

Electric Vehicle Association of DC and CAP to co-present:

February 15, 2024

March 21, 2024

April 18, 2024

So far, we have reached out to APS, FCPS, and PGCPs

Lead Teacher Learning Community Information Session

We are looking for Lead Teachers for the
2024-2025 school year.



You are invited to become a leader on air quality and climate change education in the greater Baltimore-Washington region.

Transform awareness of air pollution into action with science and engineering practices. Build environmental literacy.

Get paid to train your colleagues to teach *On the Air* in their classrooms.

Join the Clean Air Partners Lead Teacher Learning Community.

Questions? Email Elizabeth Spike, Education Program Manager at espike@cleanairpartners.net

During this information session, you will learn about

- Clean Air Partners
- *On the Air*
- Lead Teacher Learning Community
- How to apply

Sign up to attend a Lead Teacher Learning Community information session

Tuesday, January 30, 2024
5:00-6:00pm ET

[Sign Up Here](#)

A meeting link will be sent your email closer to the information session date.



Clean Air Partners is a public-private partnership that educates the greater metropolitan Baltimore-Washington region about the health risks associated with poor air quality and the impacts everyday actions have on the environment.

Clean Air Partners began informally in 1994 and was subsequently chartered as a semi-independent formal organization by the Metropolitan Washington Council of Governments (COG) and the Baltimore Metropolitan Council (BMC) in 1997. The organization serves the Metropolitan Washington-Baltimore region.

Constant Contact email sent 1/11/24 to recruit teachers to join the LTLC

MS, HS, and Science Specialists in the DMV

- 1,375 sends
- 245 opens
- 67 clicks

4 registrants: 3 from PGCPs and 1 BCPS

1 application from PGCPs

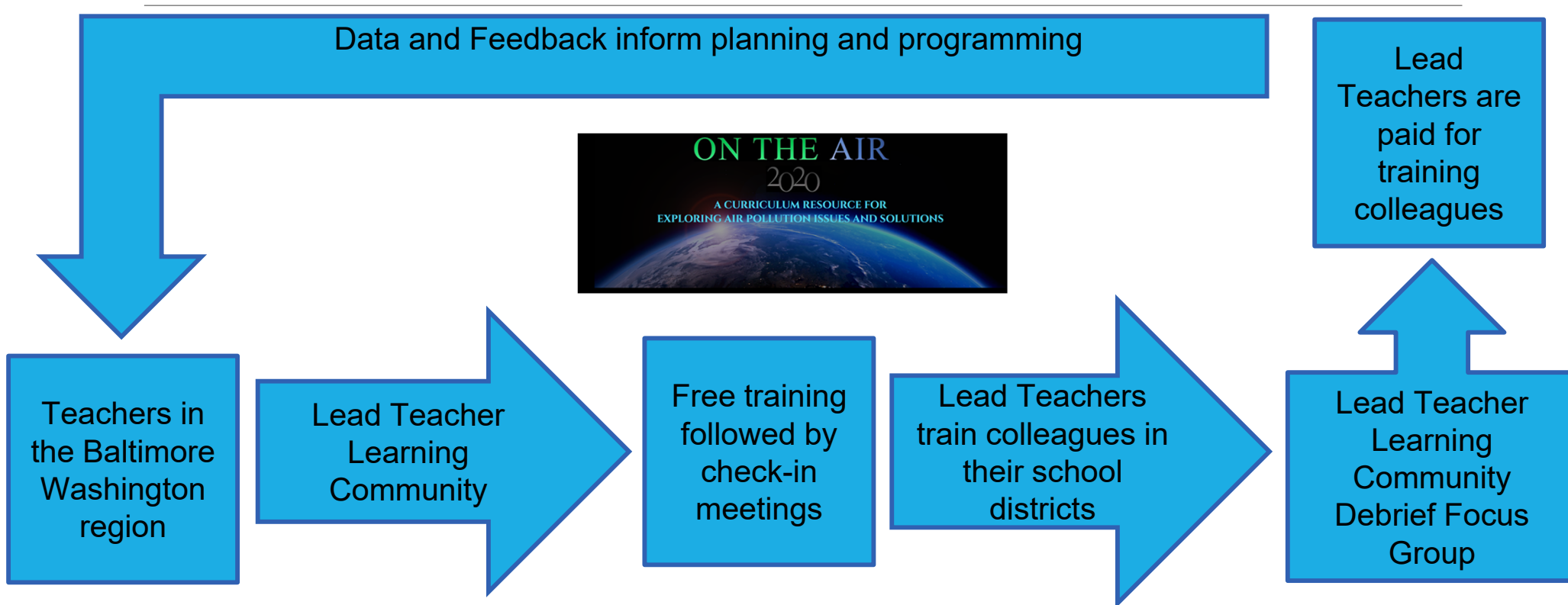
Online Information Session-What is CAP and LTLC and How to apply

- Application and MOU—due June 14, 2024 by midnight
- January 30, 2024
- February 27, 2024
- March 13, 2024
- April 17, 2024
- May 21, 2024

June LTLC training: 25, 26, and 27, 2024

August LTLC training: 6, 7, and 8, 2024

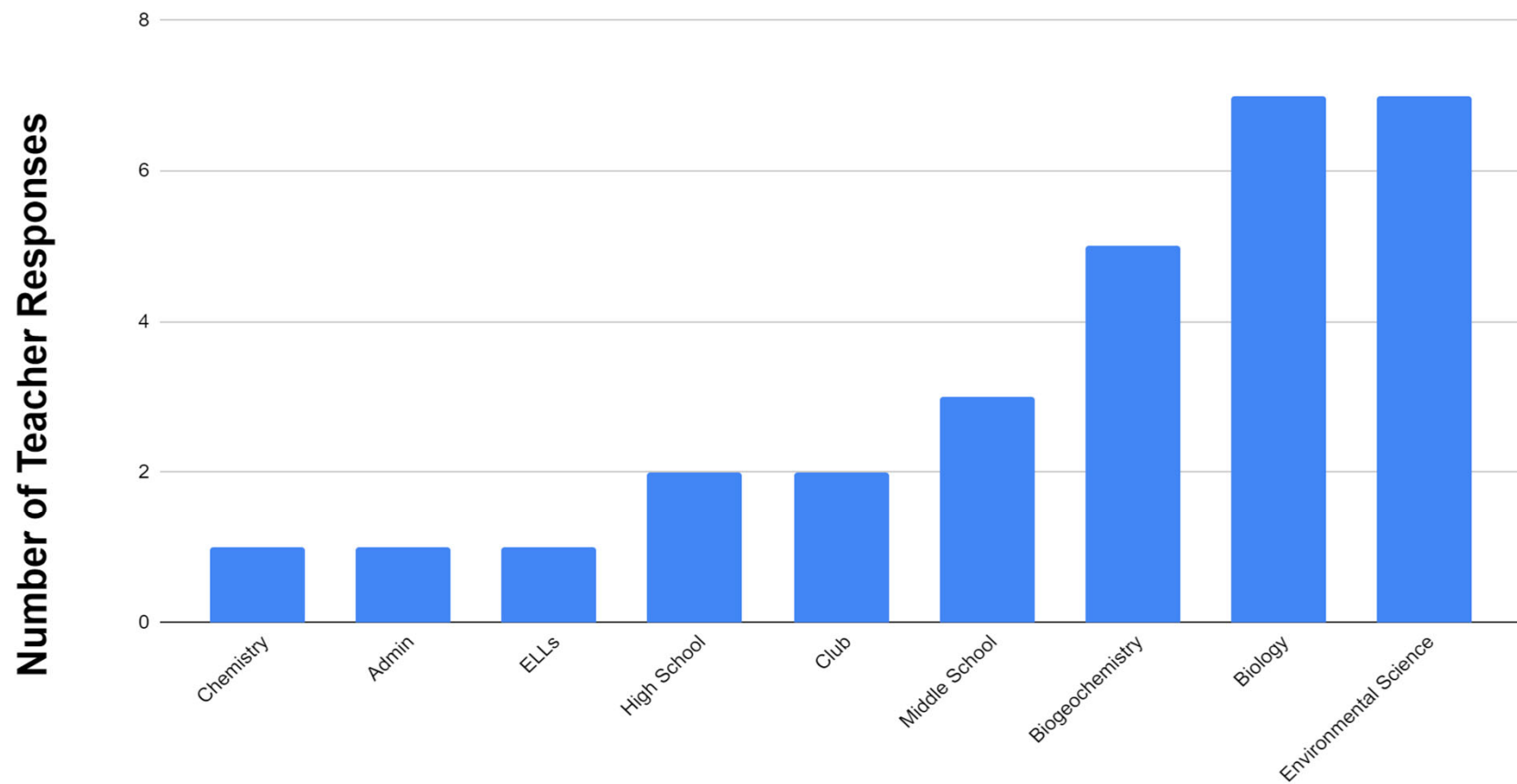
On the Air Train-the-Trainer model



Promote the use of *On the Air* curriculum: Building Relationships

- January 10 PGCPs Climate Resources PD
 - Lead Teacher shared *PM in the Community* activity
 - I introduced CAP and collected feedback
 - 55 people in attendance: teachers, admin, presenters, and students
 - 26 respondents to my feedback form
 - 96% have never worked with CAP
 - 58% teach 'climate change only' or reported 'no neither CC or AQ taught'
 - Potentially reach 1,680 students (asked teachers to identify which class they would teach the activity)

Who would you teach this activity to this school year?



Promote the use of *On the Air* curriculum: Building Relationships

- 'Teacher Feature' on Wix site, see <https://www.ontheair.cleanairpartners.net/teacher-feature>
- MAEOE Conference: February 9-11, Towson
 - CAP will exhibit and sponsor
 - Recruit and Network with Maryland Schools and Organizations
- VAEE Conference: February 22-24, Manassas
 - CAP will present, exhibit, and sponsor
 - Recruit and Network with Virginia Schools and Organizations
- First corporate sponsor, Attune
 - Join CAP at VAEE to share sensor technology during workshop break

Welcome to our Teacher Feature

Clean Air Partners highlights a teacher involved in our Lead Teacher Learning Community or Teachers who implement *On the Air* in their classrooms. We dedicate this space to recognize teacher commitment to youth environmental literacy.

Tell us a little about yourself.

My name is Beri Ndi and I live my life as "Balancing Acts" in my role as a high school science educator and a mother. These roles require as much finesse and dedication because of the delicate balance between nurturing the minds of the future and fostering the growth of my own family. My educational journey is fueled by a passion for science and an unwavering commitment to inspire young minds. ...

[Read more](#)



Photo by Bob Richards @ Morguefile

Describe the first time you felt a strong affinity for nature?

The first time I felt a strong affinity for nature was a transformative experience, a moment that still lingers in my memory. I was probably not older than seven, as I experienced the forest for the first time alone. The air was filled with the melodic symphony of birdsongs, and the ground beneath my feet was filled ...

[Read more](#)

Describe what motivated you to join the Lead Teacher Learning Community.

As a high school science educator I am always in pursuit of skills and knowledge that can significantly contribute to my students' understanding and interpretation of science. One of those is the benefit from joining an air quality and climate action community. When I ...

[Read more](#)



<https://www.ontheair.cleanairpartners.net/teacher-feature>

**COMING
SOON!**

On the Air is On the Move

Promote the use of *On the Air* curriculum: Building Relationships

- CEEJH and PGCPs AQ Monitoring
 - I've asked to join Purple Air installs on PGCPs campuses
 - Share OTA with each school (CEEJH is working on deploying sensors on 25 PGCPs campuses)
 - Continue to coordinate with the Cheverly AQ Community Advisory Board re: outreach to principals
 - EJ Symposium Teacher Workshop discussion
- Continue to coordinate with BCPS and Baltimore City Schools—teachers and leadership
- Science Fairs
 - March 2 APS, Northern Virginia Regional Science Fair
 - March 16, FCPS
 - March 20, LCPS

Promote the use of *On the Air* curriculum: Building Relationships

- National Environmental Justice Conference and Training Program, April 16-18, DC
 - Network with attendees, sponsors, and take away best practices
- Earth Educators Rendezvous, Temple University, Phila, PA July 15-19
 - OTA and LTLC workshop
 - Networking
- Note: Colorado Department of Public Health and Environment adopting OTA
 - OTA model curriculum for K12 education in the state of Colorado

Promote the use of *On the Air* curriculum: Feedback Tools

- Lead Teachers
 - 2 check-in's, 3rd due at the end of January 2024
 - 3 active LT's and 1 mostly interested in Air Beams on her campus this year, 1-2 seem inactive
 - Need support recruiting teachers for trainings
 - Response: I find opportunities for LT's to present
- Teacher Training:
 - 4 trainings, 49 responses to LTLC trainings
 - Most teachers—
 - high school, biology, earth science, environmental science
 - more than 10 years of teaching experience
 - never worked with CAP
 - satisfied with the training and the activity
 - likely to teach the activity

Promote the use of *On the Air* curriculum: Feedback Tools

Teacher comments—

- [Activities] promote **interactive** learning.
- This activity is connected to the **real world** problem.
- **Local** issue; one the students can connect to.
- This activity is **new to me** so I am very much interested in doing it in the class.
- **Student** activity centered
- This relates directly with the pacing guide like a **missing piece**. Addresses a loophole.

Promote the use of *On the Air* curriculum Feedback Tools

Teacher motivations

- will help my students to get more **knowledge and skills** related to monitoring, assessing, and improving air quality, with goals such as environmental protection, and public health.
- I am worried about students' **respiratory problems** due to increased air pollution
- I want to find ways for our students to be involved with science/science data that is **local** and finds ways to get involved/present **solutions**.
- to learn more about air quality specific to **our community**; learn about lesson plans and activities for teaching about air quality and local activities to improve air quality

Promote the use of *On the Air* curriculum: Feedback Tools

Teacher motivations

- mandatory collaborative meeting, but the content was captivating and
- I want my students healthier, I want to breathe healthier air, I also want to teach my students to be more concerned about the Earth and what they are breathing
- I am looking for more resources and local information to bring to my courses.
- my desire to learn more new interesting concepts and latest strategies

Questions?

Contact me at espike@cleanairpartners.net

Let's partner. Interest in..

- co-presenting
- joining a LTLC training—introduce yourself, your org, your commitment to AQ
- introducing me to your networks
- collaborating on grants and sponsorships
- introduce myself to your organization