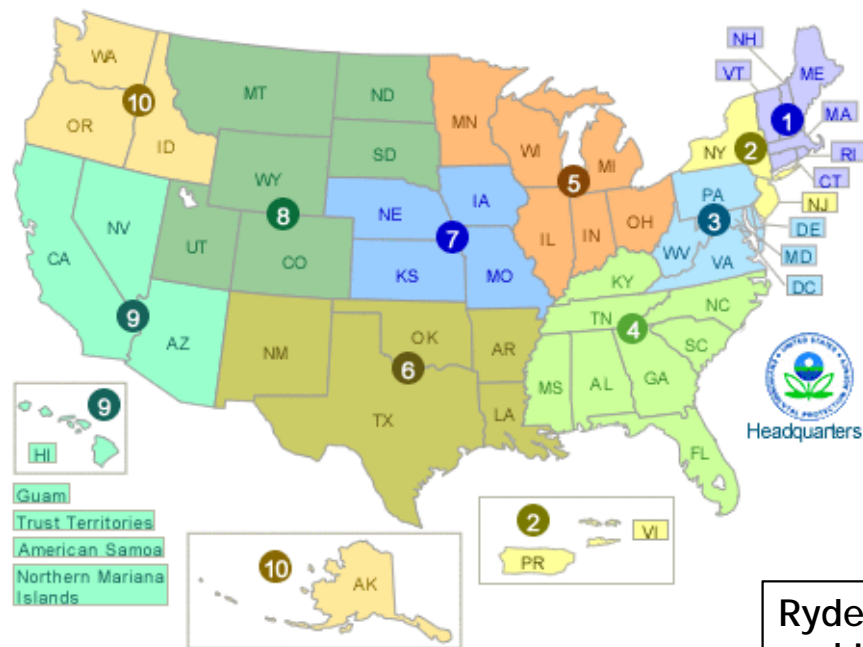


Air Quality Sensors and Environmental Education at EPA Region 9



September 13, 2018
Air Sensors
International
Conference
Oakland, CA

Ryder Freed- Office of Air Toxic, Radiation
and Indoor Air, Life Scientist

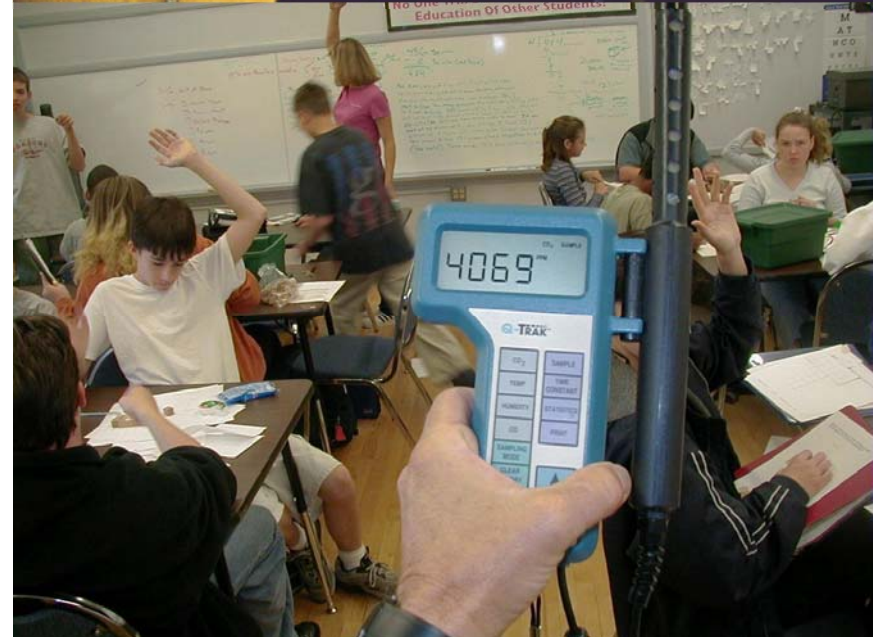
Eric Canteenwala- Children's Health Program,
Environmental Education Coordinator

Youth Education and Air Sensors at EPA

- ▶ Tools for Schools- Indoor Air Quality
- ▶ Environmental Education Presentations
- ▶ Research Project: Vegetative barriers for mitigating near roadway pollution at Brookfield Elementary School
- ▶ LA Public Library Partnership
- ▶ R9 Air Sensor Loan Program
- ▶ Funding and Resources

Tools for Schools

Creating Healthy Indoor Air Quality in Schools



Environmental Education Presentations

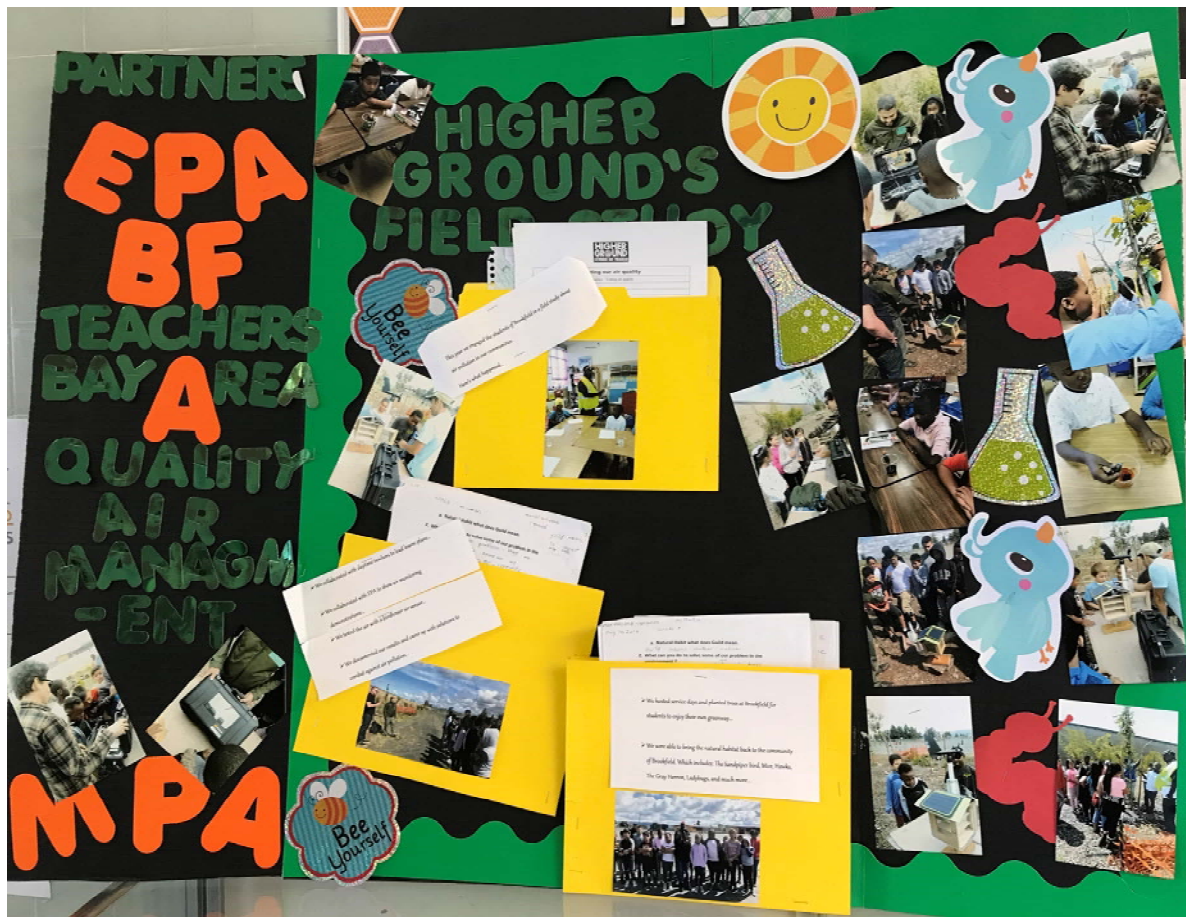
- ▶ Informal presentations to high school students in the Central Valley, LA and Bay Area as requested by teachers.
- ▶ Includes an Air Quality 101 presentation and hands-on air sensor activity.
- ▶ Over 500 students in California have completed the lesson.



Sensor Projects in Region 9 Brookfield Elementary Vegetative Barrier



Sensor Projects in Region 9 Brookfield Elementary Phase 2



Sensor Projects in Region 9

Los Angeles Public Library Loan Program



Photo credits: Left, Los Angeles Public Library; Top Right, Institute of Museum and Library Services; Bottom Right, UC San Diego/CitiSense

EPA R9 Air Sensor Loan Program

- ▶ Eligible organizations can borrow low cost PM air sensors from EPA
- ▶ Schools, non-profits, community based organizations, universities, tribes, local government and air districts are all eligible.
- ▶ Sensors can be used for citizen science, environmental education, personal exposure monitoring, etc.



Funding

- ▶ Environmental Education Grants
 - Between \$50,000 and \$100,000.
 - 1-3 year grants.
 - School districts, non-profits, universities, and government agencies are eligible.
 - Funds hands-on learning, teacher professional development, salaries, supplies and materials.

- ▶ Environmental Justice Small Grants
 - Up to \$30,000.
 - 1 year grants.
 - Non-profits and tribal governments are eligible.
 - Must be working directly with the affected community.



Resources: Awards, lesson plans and technical assistance

- ▶ President's Environmental Youth Award
- ▶ Presidential Innovation Award for Environmental Educators
- ▶ Sensor Educational Materials
 - ▶ Air Sensor Citizen Science Toolbox
 - ▶ DIY Sensor Kit
- ▶ Technical Assistance
 - ▶ Assistance starting a community air Monitoring program.



THANK YOU!



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