EPA

The Virtual School Walkthrough 2.0:
Responding to Common IAQ Issues and Concerns

Thursday, January 26, 2012

1:00 – 2:30 PM EST

Access Number!

Note: To hear the audio portion of the webinar, you must call the number below.

Dial: (877) 887-8949
Reference Conference ID #: 40901112

Objectives

- Discover best practices for addressing IAQ issues raised by teachers, students, staff and other school community members.
- Learn the value of effective communication throughout IAQ issue response and the resolution process.
- Learn tips and techniques on how to monitor and assess IAQ in schools - the value of a thorough visual inspection, and what can be accomplished without the use of instruments.
- Gain an understanding of the value of practical measurements to document and track IAQ conditions using basic instruments recommended for schools.
- Understand some of the limitations of testing and air sampling for molds and other indoor pollutants.

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Introductions

Facilitator:

- Jennifer Lemon, Indoor Environments Division, U.S. Environmental Protection Agency

Speakers:

- David Blake, Environmental Specialist/Indoor Air/Asbestos, Northwest Clean Air Agency
- Richard Prill, Building Science and Indoor Air Quality Specialist, Washington State University

Today's Webinar Presentation and Materials

- Virtual Walkthrough resources and a Questions and Answers document will be available to you soon on the *IAQ Tools for Schools* website.

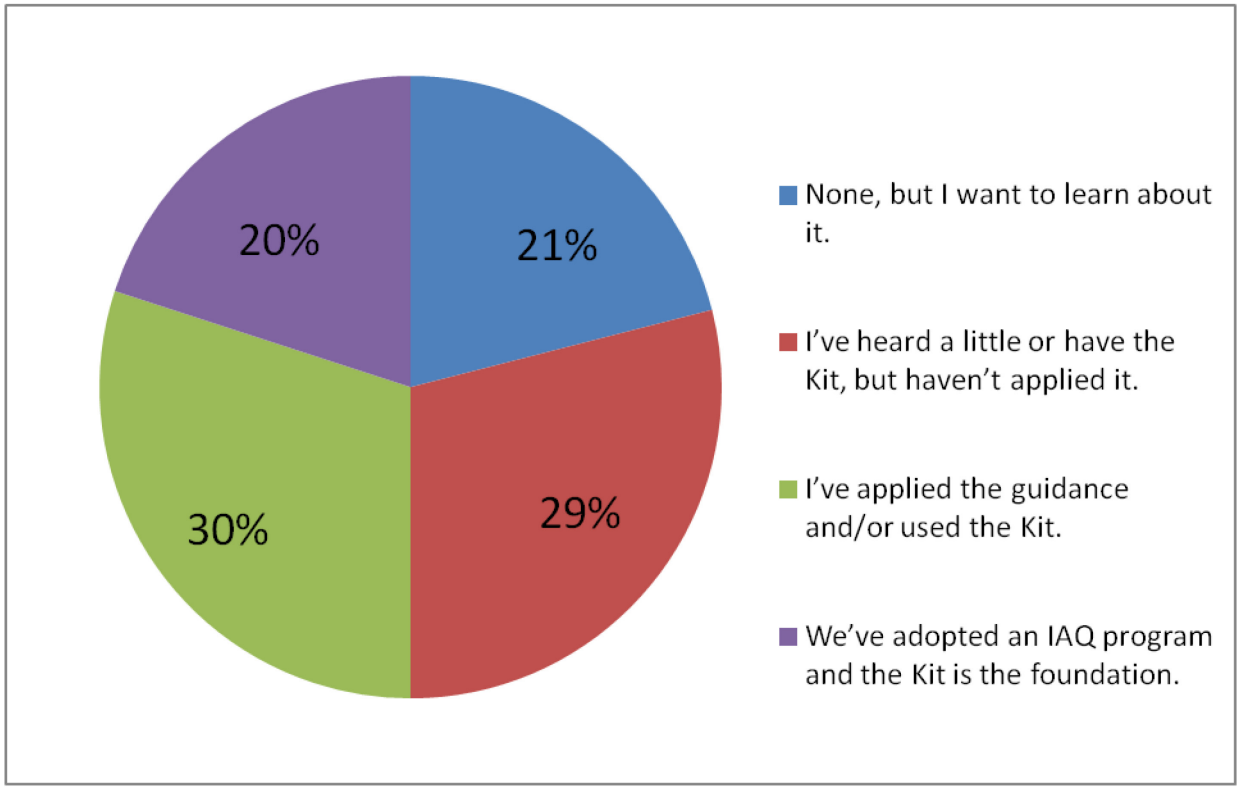
  - www.epa.gov/iaq/schools/webconferences.html

- As a reminder, the online Virtual Walkthrough presentation is also available on the Northwest Clean Air Agency website. You may also request a DVD copy be sent to you in the mail.

  - http://www.nwcleanair.org/aqPrograms/indoorAir.htm

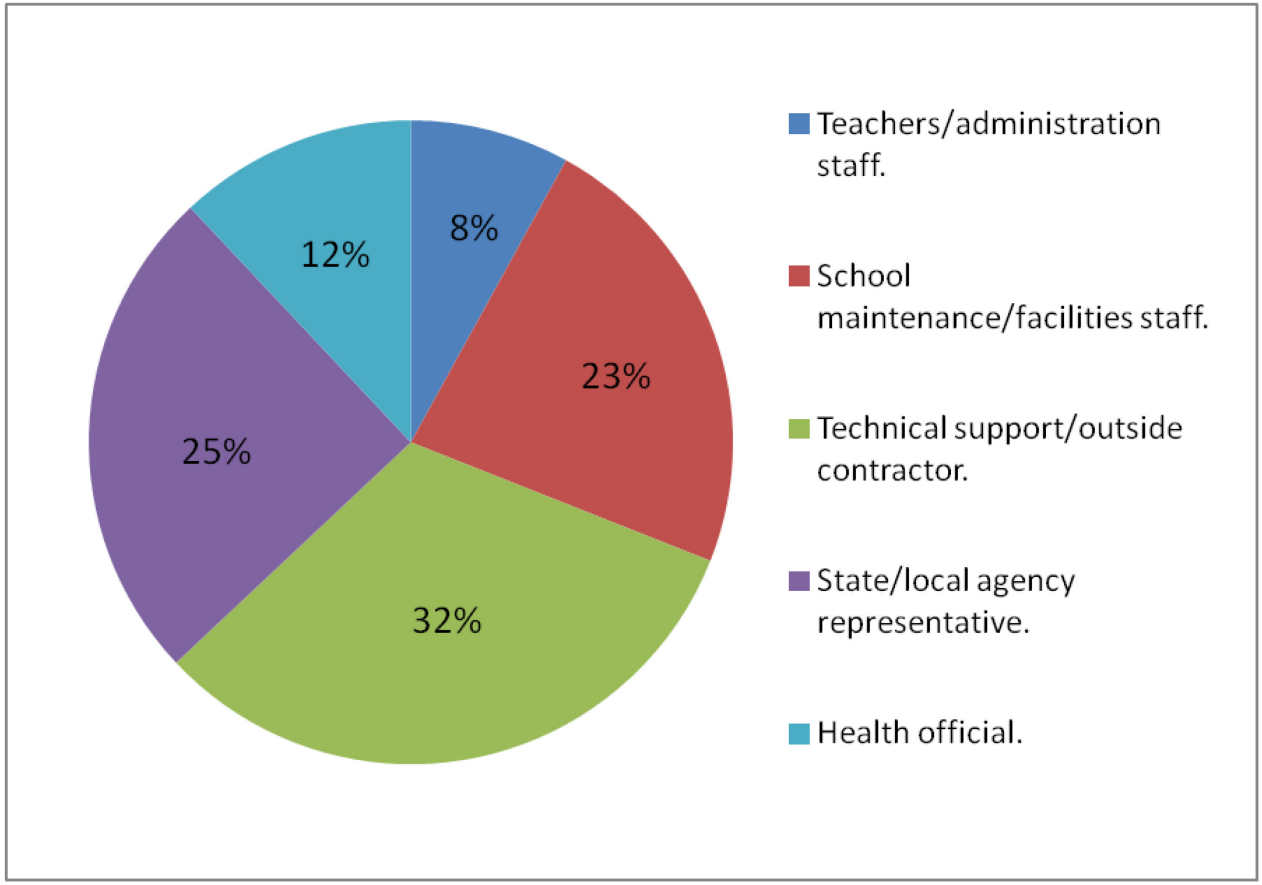
Polling Question

What is your experience with *IAQ Tools for Schools* guidance and Action Kit?

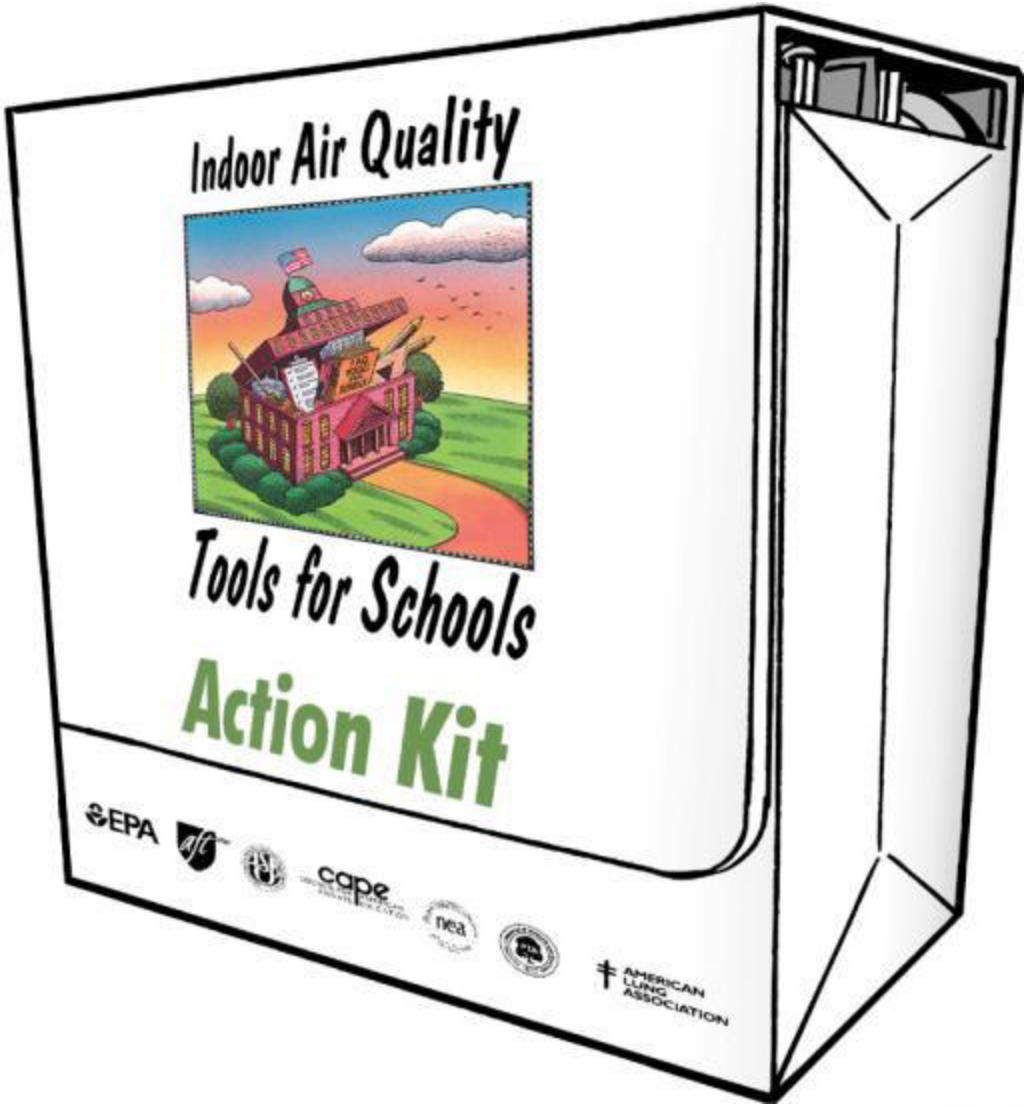


Polling Question

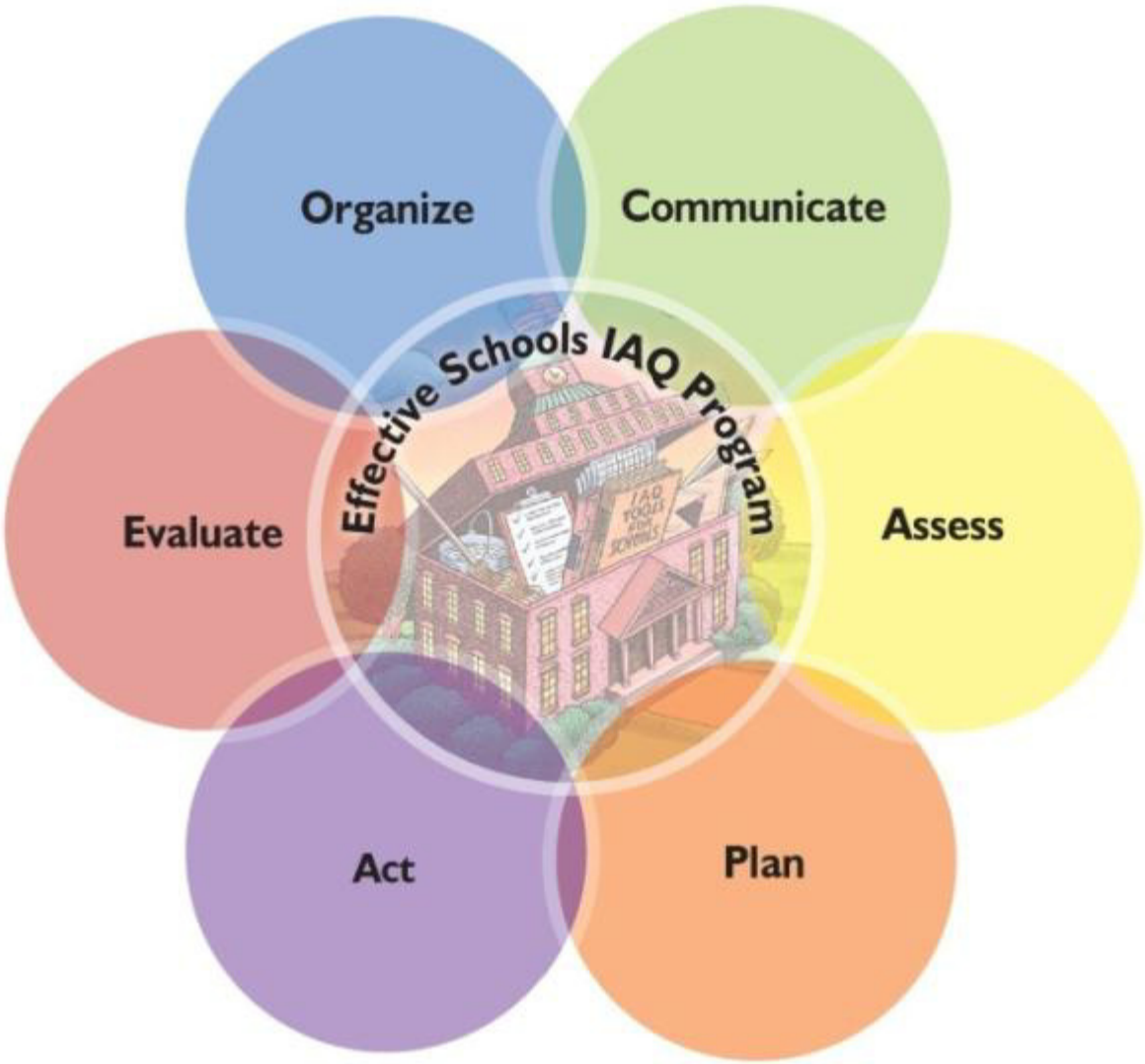
What is your role in performing a school IAQ walkthrough:



IAQ Tools for Schools Guidance



The Framework for Effective School IAQ Management



The Framework for Effective School IAQ Management:
Six Key Drivers

ORGANIZE
- Develop Systematic Approach
- Identify Existing Assets
- Design SOPs
- Empower an IAQ Leader
- Build an Effective Team
- Create Champions
- Secure Senior Buy-In

COMMUNICATE
- Share Your Goals
- Make IAQ Meaningful
- Be Transparent & Inclusive
- Communicate Results (ROI)

EVALUATE
- Solicit Feedback
- Capture ROI

ASSESS
- Walk the Grounds
- Listen to Occupants
- Use Technology
- Determine a Baseline
- Keep Customers Satisfied
- Identify and Prevent Risks

ACT
- Educate Staff About IAQ to Change Behavior
- Train Occupants to Address IAQ Risks
- Address the Source of Problems

PLAN
- Prioritize Actions
- Put Goals in Writing
- Start Small
- Work in Stages
- Plan for the Future

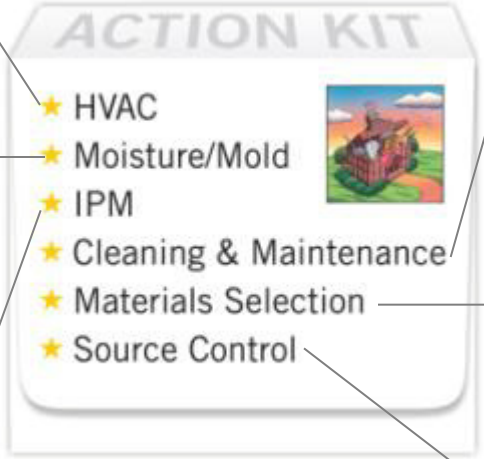
The Framework for Effective School IAQ Management:
Six Technical Solutions

The Framework for Effective School IAQ Management:
Six Technical Solutions

Quality HVAC
- Inspect HVAC systems regularly
- Establish a maintenance plan
- Change filters regularly and ensure condensate pans are draining
- Provide outdoor air ventilation according to ASHRAE Standard or local code
- Clean air supply diffusers, return registers, and outside air intakes
- Keep unit ventilators clear of books, papers, and other items

Control of Moisture/Mold
- Conduct routine moisture inspections
- Establish mold prevention and remediation plan
- Maintain indoor humidity levels between 30% and 60%
- Address moisture problems promptly
- Dry wet areas within 24-48 hours

Strong Integrated Pest Management (IPM)
- Inspect and monitor for pests
- Establish an IPM plan
- Use spot treatments and baits
- Communicate with occupants prior to pesticide use
- Mark indoor and outdoor areas treated with pesticides



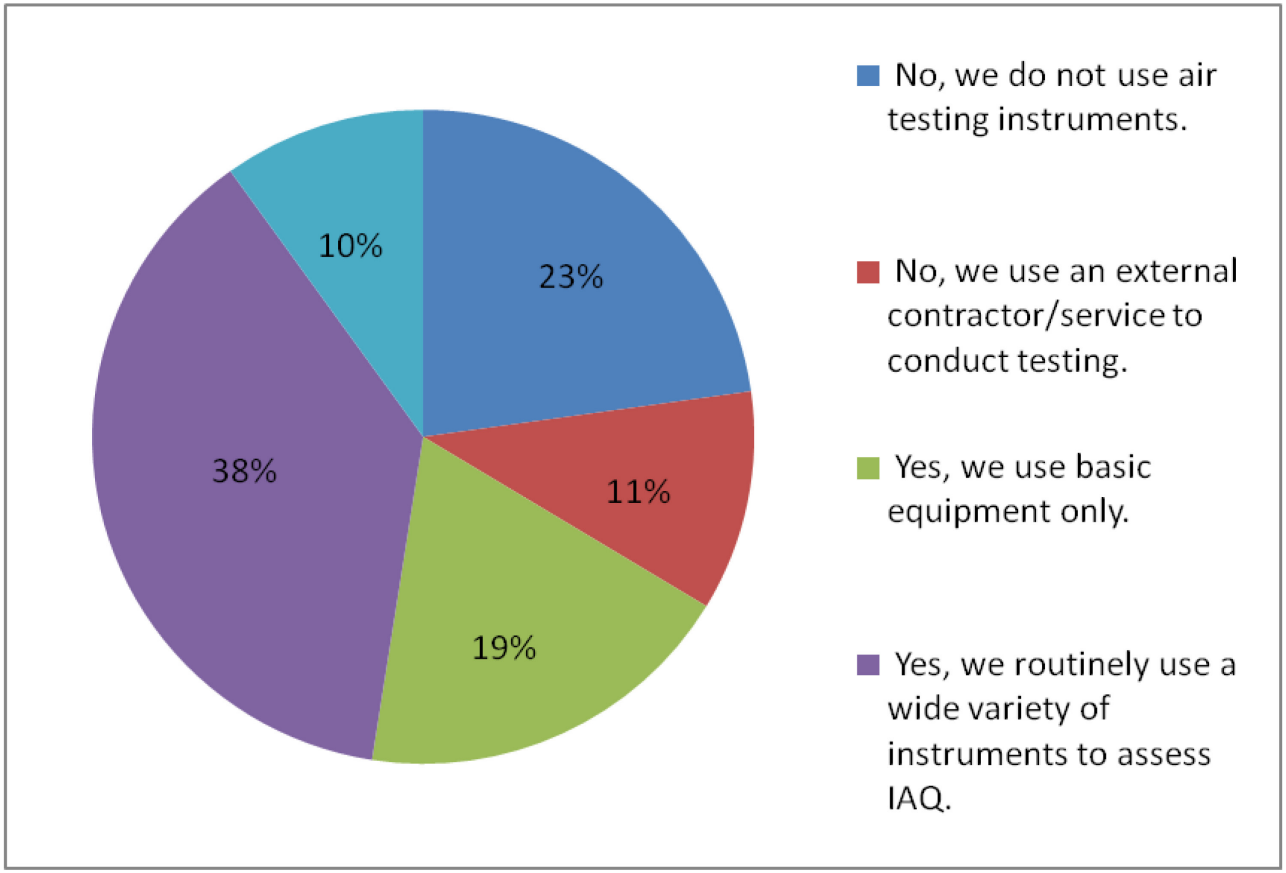
Effective Cleaning & Maintenance
- Conduct routine inspections of school environment
- Develop a preventative maintenance plan
- Train cleaning/maintenance staff on protocols
- Ensure material safety data sheets (MSDS) are available to staff
- Clean and remove dust with damp cloth
- Vacuum using high-efficiency filters

Smart Materials Selection
- Maintain products inventory
- Develop low-emitting products purchasing and use policies
- Use only formaldehyde-free materials
- Use only low-toxicity and low-emitting paint
- Select products based on product rating systems
- Use least toxic cleaners possible (only those approved by the district)

Aggressive Source Control
- Conduct regular building walkthrough inspections
- Test for radon; mitigate if necessary
- Implement a hazardous materials plan (use, label, storage and disposal)
- Establish a school chemical management and inventory plan
- Implement Smoke-Free policies
- Establish an anti-idling school bus policy
- Use walk-off mats at building entrances
- Conduct pollutant-releasing activities when school is unoccupied

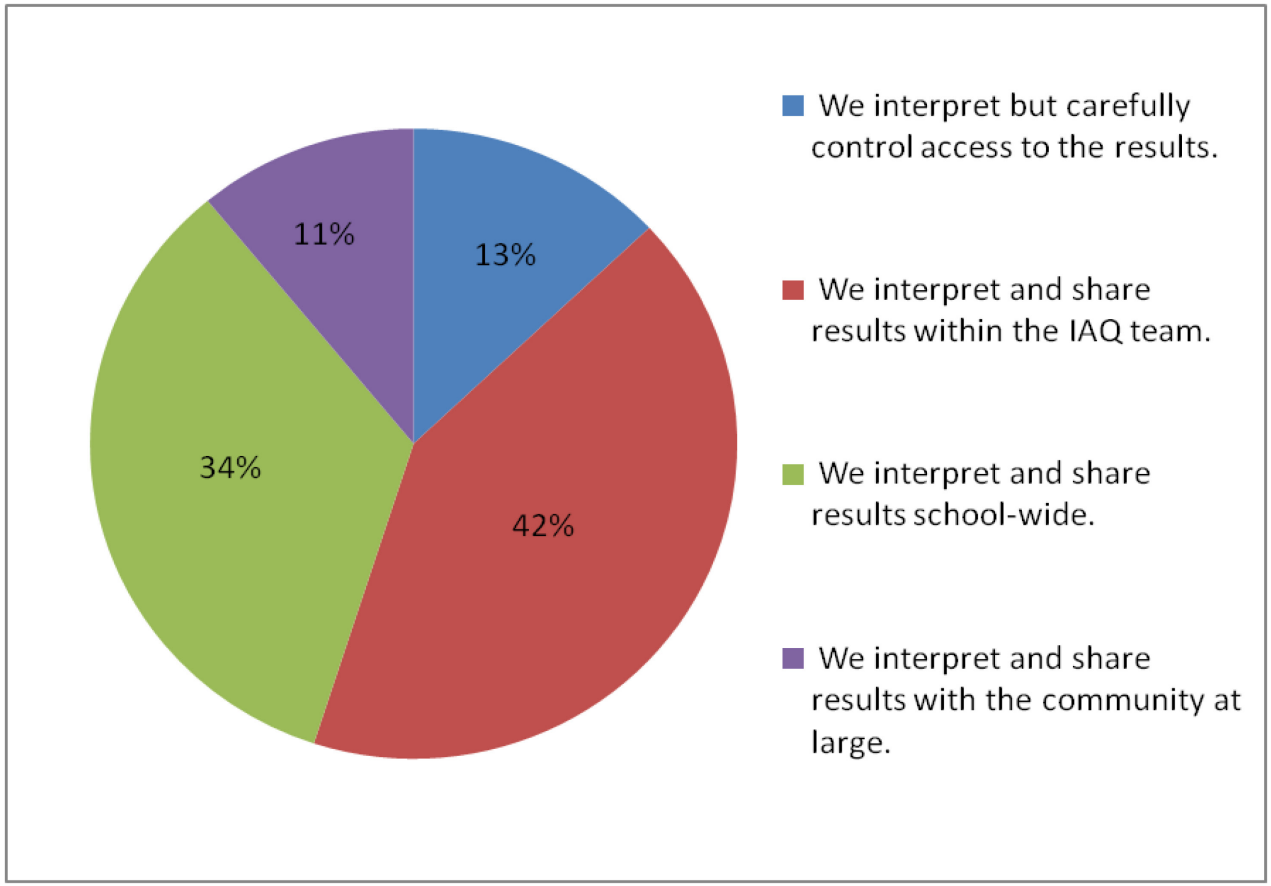
Polling Question

If you work in or with a school district, do you currently use air testing instruments?



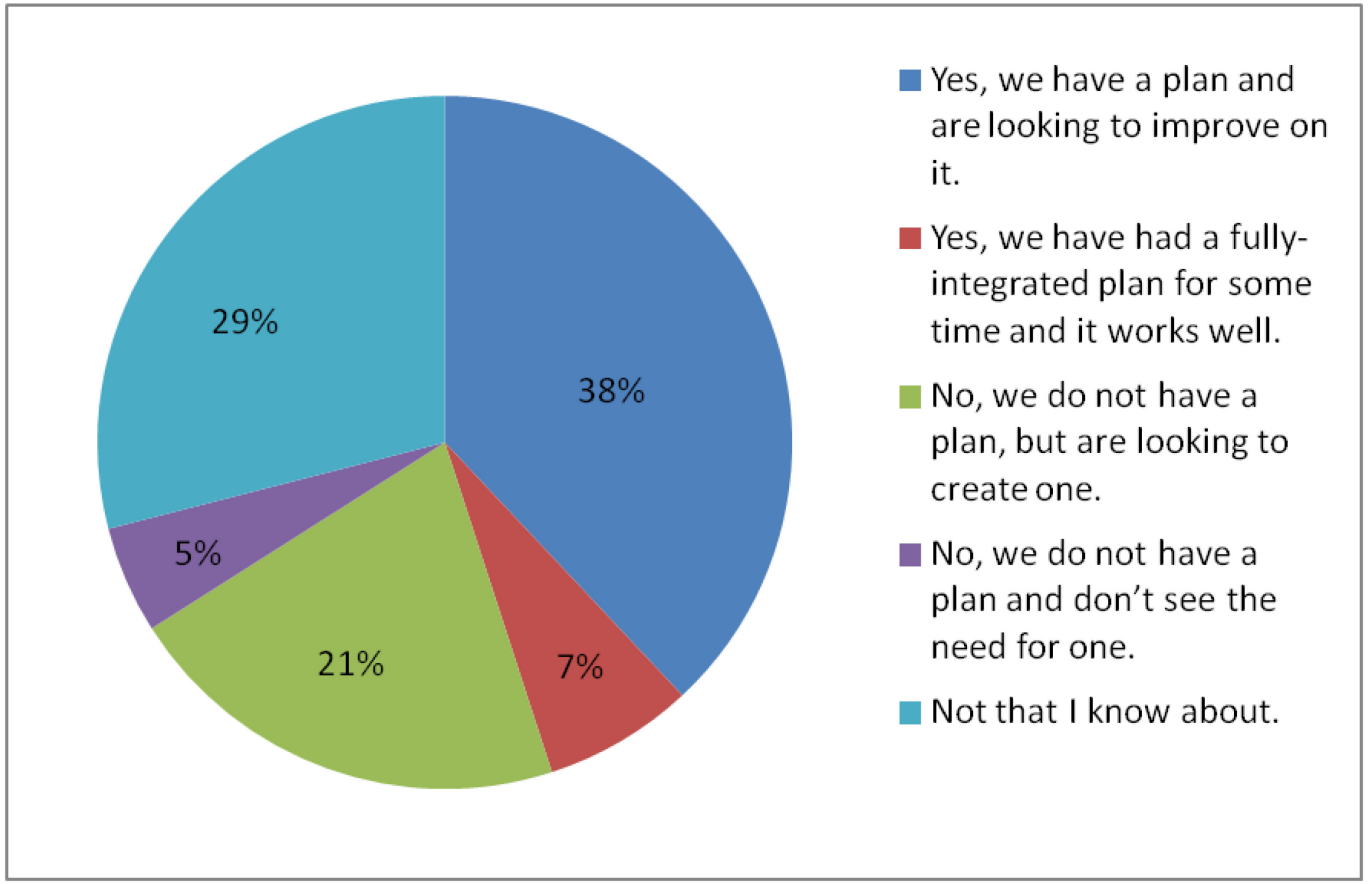
Polling Question

If you use IAQ assessment equipment, how do you share the results?



Polling Question

Does your school have a formalized communication plan as part of your IAQ management plan?

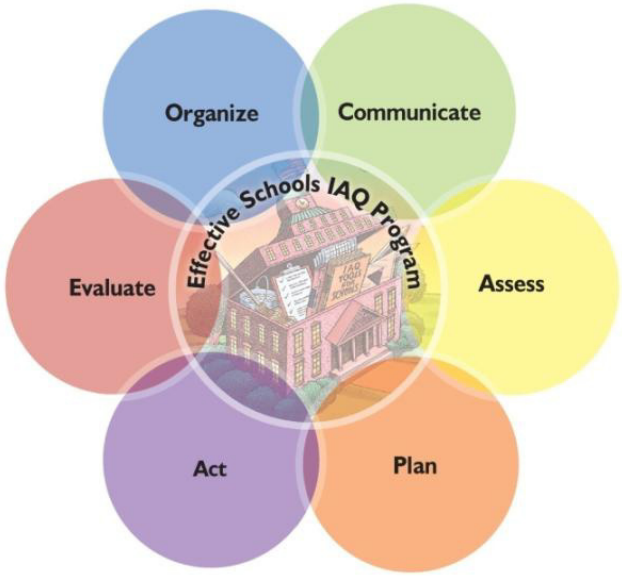


School IAQ Walk-Throughs

Walk-the-Talk: Putting IAQ Info into Action

Speakers:

- David Blake, Northwest Clean Air Agency
- Richard Prill, Washington State University



'Virtual' School IAQ Walk-Through Taking The Next Steps

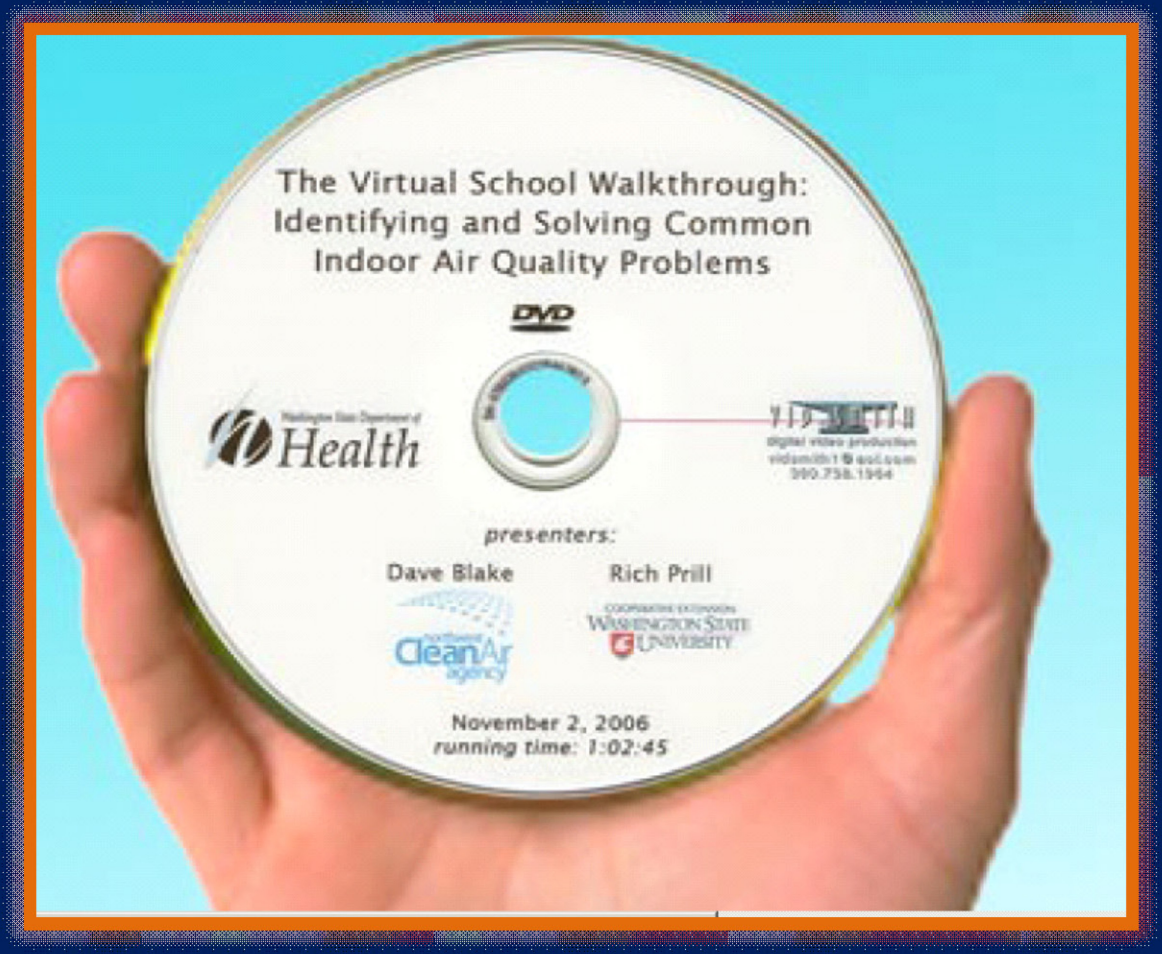
Preventing and Responding to Common IAQ Issues

Rich Prill & Dave Blake

COOPERATIVE EXTENSION
WASHINGTON STATE UNIVERSITY

northwest CleanAir agency

This Webinar builds on the Virtual Walk-Through Program DVD Video available on-line

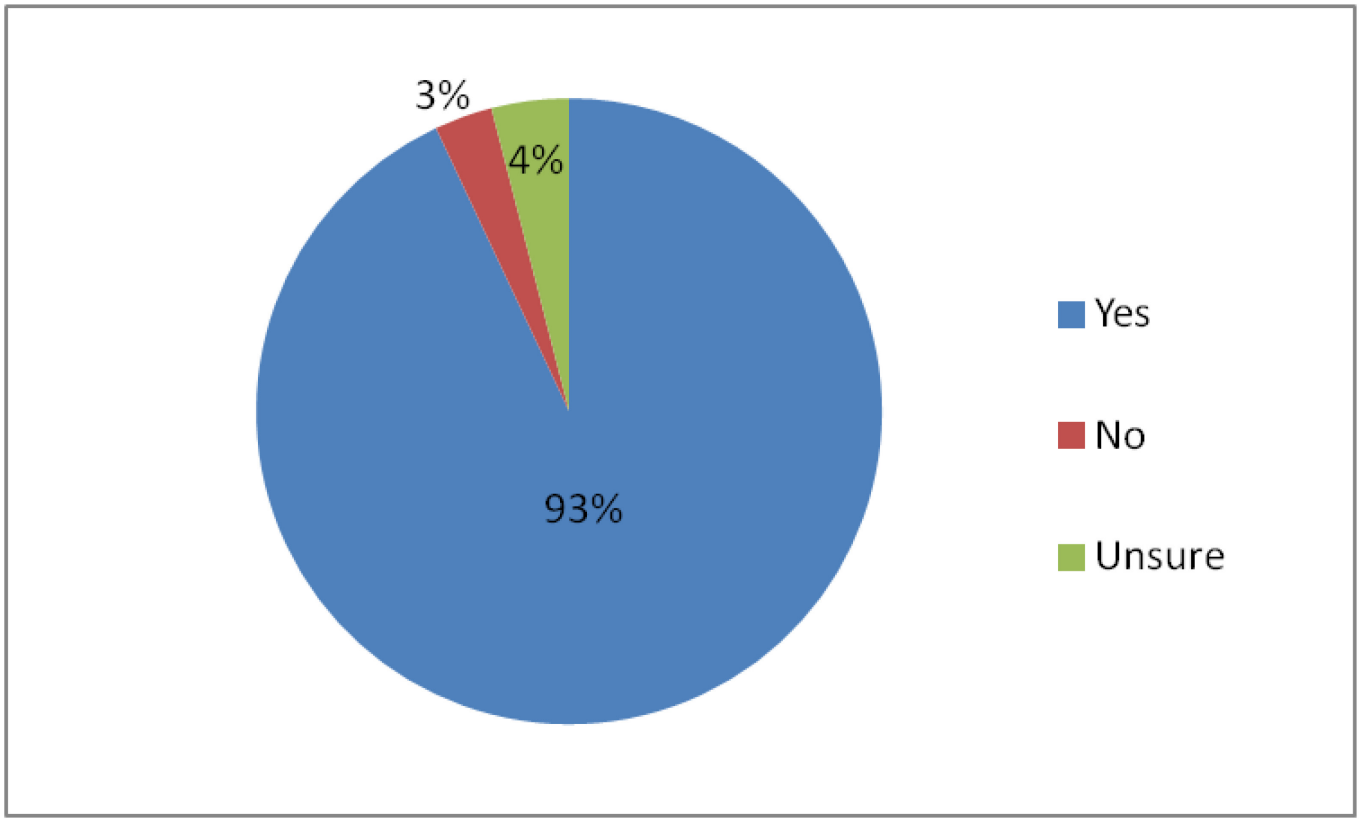


Questions and Answers

Please use the questions/chat pane on your webinar console to send us your questions.

Polling Question

After hearing this presentation, do you feel more confident and prepared to properly use and interpret testing results?



IAQ Tools for Schools Resources -- What's new!

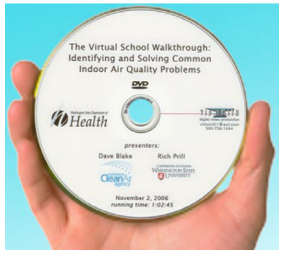
- **The *IAQ Tools for Schools* revised website is here!**
  - The revised site includes interactive elements and the latest resources to help schools create healthy indoor environments.
  - Access an interactive *IAQ Tools for Schools* Action Kit: http://www.epa.gov/iaq/schools/actionkit.html
  - And other information tailored to the role you play in your school's community, and multimedia resources such as videos and podcasts: http://www.epa.gov/iaq/schools/

IAQ Tools for Schools Resources

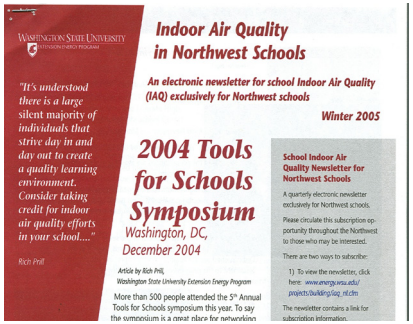
- *IAQ Tools for Schools* Connector E-Newsletters and E-mails:
  - Send an e-mail to: IAQTfSConnector@cadmusgroup.com
  - View archives at: http://www.epa.gov/iaq/schools/bulletins.html
- Schools IAQ Connector E-Discussion List:
  - Send a blank e-mail message to schools_iaq_connector-subscribe@lists.epa.gov. Then, check your e-mail inbox for your confirmation and membership details.
- *IAQ Tools for Schools* Webinar Resources
  - http://www.epa.gov/iaq/schools/webconferences.html

Virtual Walkthrough Resources

- Northwest Clean Air Agency's Indoor Air Quality Program and Virtual Walkthrough DVD
  - http://www.nwcleanair.org/aqPrograms/indoorAir.htm

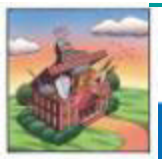


- Washington State University Energy Program
  - Indoor Air Quality:
  - http://www.energy.wsu.edu/PublicFacilitiesSupport/IndoorAirQuality.aspx



- Building Air Quality: A Guide for Building Owners and Facility Managers
  - http://www.epa.gov/iaq/largebldgs/baqtoc.html

- Indoor Air Quality Building Education and Assessment Model (I-BEAM)
  - http://www.epa.gov/iaq/largebldgs/i-beam/index.html



IAQ Tools for Schools Reminders

- Register today! ***Healthy School Environments Across the South IAQ Training. February 23, 2012 in Athens, GA.***
- Learn more at: http://www.cefpi.org/i4a/pages/index.cfm?pageid=5006
- Complete the **brief feedback form**, which you will receive in the GoToWebinar follow-up email immediately after the webinar's conclusion.
- View and download the **audio and transcript**, along with the **question and answer document and PDFed presentation slides** from this webinar! These will be posted to in 2-3 weeks here: www.epa.gov/iaq/schools/webconferences.html
- If you have any additional **comments, questions or suggestions** for topic to be featured in an upcoming E-Connector Newsletter or webinar, send an email to: iaqtfsconnector@cadmusgroup.com.

Contact Information for Webinar

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