

**EPA**

## The IAQ Tools for Schools Framework and Connector:

### Engaging Leaders for Enduring Program Success

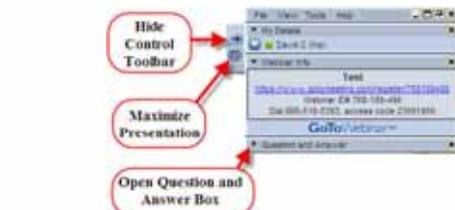
January 22, 2009 – 2:00pm ET

**New Access Number!**  
 Note: To hear the audio portion of the Webinar, you must call the number below.

Dial: (877) 290-8017  
 Access code: 81294437

Indoor Air Quality (IAQ)

## Using the Webinar Technology



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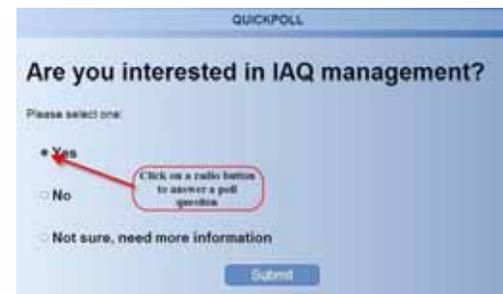
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## Webinar Overview

- Discover a Successful Framework and System for Effective IAQ Management
- Employ Management and Application Approaches
- Hear from Faculty Programs Living Out these Strategies
- Learn about Dynamic New Ways to Network with Peers through the IAQ Tools for Schools Connector

Indoor Air Quality (IAQ)

## Welcome and Introductions

- Tracy Enger  
*U.S. EPA, Indoor Environments Division*
- Dave Rowson  
*U.S. EPA, Indoor Environments Division*
- Dave Hill  
*Blue Valley School District, Kansas*
- Brian Kasher  
*Charlotte Mecklenburg Schools, North Carolina*

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## The IAQ Tools for Schools Approach:

Providing a Framework for Success



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**Question: Did you attend the 9th Annual IAQ Tools for Schools National Symposium in December 2008?**

1. Yes
2. No



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## IAQ Tools for Schools Program




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**Question: IAQ Status – I would characterize the IAQ in our school facilities as:**

1. Very healthy
2. Healthy
3. A few problems
4. Common problems
5. Serious problems throughout



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**Question: Program – I would characterize our IAQ program as:**

1. Well developed, very effective
2. Developed, gets some results
3. Still developing, in action
4. Too small, not effective
5. Not in place



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## Results in Schools Nationwide



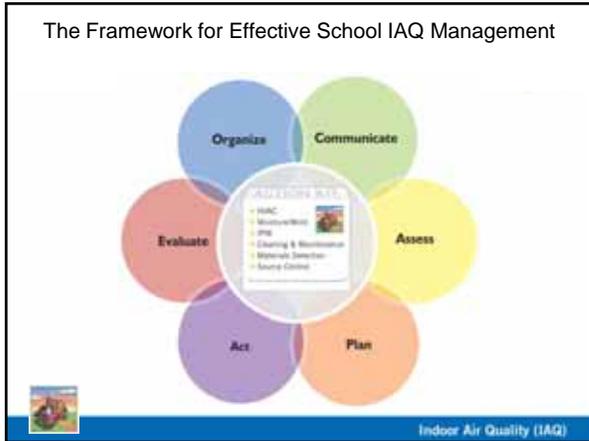
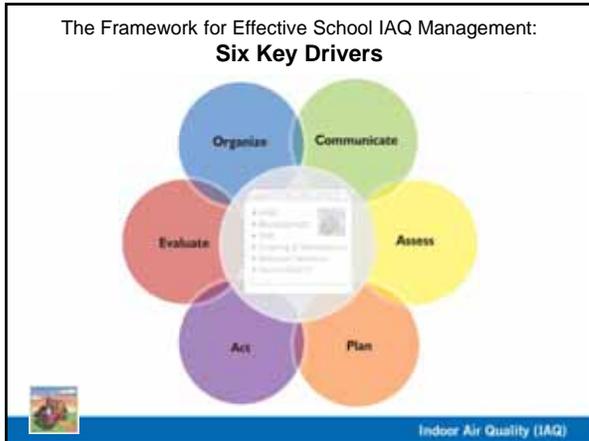
51% implementing IAQ management programs

33% reporting progress on all indicators

Centers for Disease Control and Prevention: 2006 School Health Policies and Programs Study (SHPPS)



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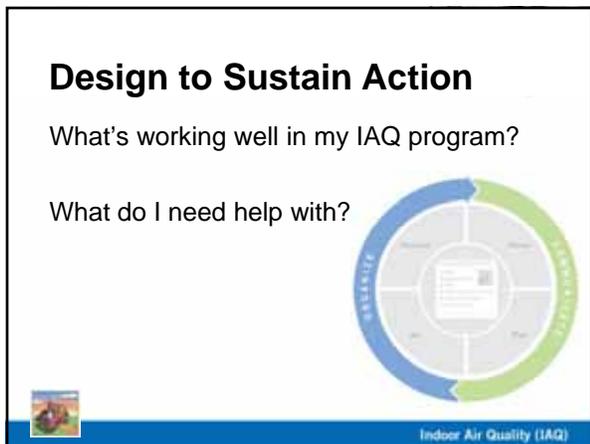


- School IAQ:  
Mastering the Framework**
- Design to Sustain Action
  - Be In Action For Results
  - Install the Best Solutions
- Indoor Air Quality (IAQ)





- Question:** What is the stage of development of your school system to “design to sustain action”?
1. No action
  2. Planning underway
  3. Developing, forming
  4. Well developed, seeing results
  5. Sustained success
- Indoor Air Quality (IAQ)



**Question: What is the stage of development of your school system to “be in action for results”?**

1. No action
2. Planning underway
3. Developing, forming
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## Being in Action for Results

What's working well in my IAQ program?

What do I need help with?



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## Moving From Theory to Practice:

**Taking the System and Making it Work in Your District**



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## The Framework for Effective School IAQ Management



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## The Framework for Effective School IAQ Management: Six Technical Solutions



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## 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)
- 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

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\* HVAC  
\* Moisture/Mold  
\* IPM  
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\* Materials Selection  
\* Source Control



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# IAQ Tools for Schools Connector

## Plugging into the National IAQ TFS National Network



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### IAQ Tools for Schools Connector

<b>IAQ TFS Web site</b>	<b>Webinars</b>	<b>Updates and E-mails</b>	<b>Listserve</b>
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- *In conversation*
- *Sharing knowledge*
- *Your ideas!*



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U.S. ENVIRONMENTAL PROTECTION AGENCY  
IAQ Tools for Schools Program

**IAQ TFS National Awards Program**

Marked By State Listing of Award Winners

[www.epa.gov/iaq/schools/nationalmap.html](http://www.epa.gov/iaq/schools/nationalmap.html)



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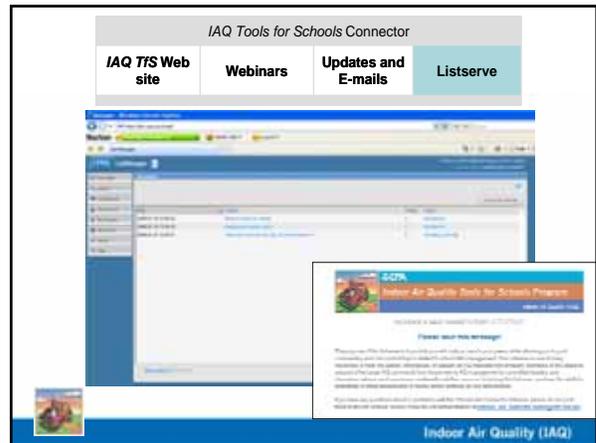
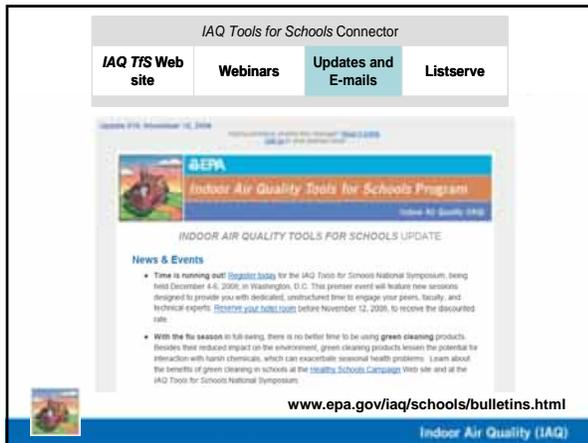
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[www.epa.gov/iaq/schools/webconferences.html](http://www.epa.gov/iaq/schools/webconferences.html)



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**Question: Which component of the IAQ Tools for Schools Connector are you most likely to use?**

1. Resources on the IAQ TFS Web site, such as the award winner directory/map
2. Webinars
3. Updates and other e-mail communications
4. Listserve
5. Other

## Resources

- IAQ TFS Program  
[www.epa.gov/iaq/schools](http://www.epa.gov/iaq/schools)
- IAQ TFS Envisioning Excellence  
<http://www.epa.gov/iaq/schools/excellence.html>
- IAQ TFS Updates and E-mails—Send an e-mail to: [IAQTfSConnector@cadmusgroup.com](mailto:IAQTfSConnector@cadmusgroup.com)
- IAQ TFS Listserve—Look for an information in your inbox soon!