



2011 *Indoor Air Quality Tools for Schools* NATIONAL SYMPOSIUM

JANUARY 13-15, 2011
WASHINGTON, DC

Indoor Air Quality (IAQ)

AGENDA

January Wednesday 12

5:00 – 7:00 pm Registration Opens..... Independence Foyer

January Thursday 13

7:00 am Registration Opens..... Independence Foyer
Continental breakfast provided.

7:30 – 8:30 am Pre-Conference Session—Healthy Schools 101:
Getting Started with the *IAQ Tools for Schools* Program Independence BCDE and FGHI
This hands-on, introductory session for participants new to IAQ management and the *IAQ Tools for Schools* Program will provide a foundation to build upon throughout the Symposium. Participants will learn how to use the *IAQ Tools for Schools* Action Kit as the basis for developing a comprehensive IAQ management program for their schools. Award-winning faculty school district speakers will detail the concrete steps they took to get their sustainable IAQ programs up and running.

Speakers: Shelly Rosenblum, U.S. EPA Region 9; Cristina Schulingkamp, U.S. EPA Region 3; David Glassman, Baltimore County Public School District; Sean Joyce, Baltimore County Public School District

8:45 – 9:30 am Welcome Independence A
Join together with fellow *IAQ Tools for Schools* leaders and champions to kick off this premiere national event. This session will highlight how school districts across the country are embracing the ideals of the 21st century to incorporate healthy and high-performance indoor air quality practices for student and staff achievement and health.

Speakers: Mike Flynn, Director, Office of Radiation and Indoor Air, U.S. Environmental Protection Agency; Tracy Enger, Indoor Environments Division, U.S. Environmental Protection Agency

9:30 – 10:00 am Healthy Communities Start with Healthy Schools Independence A
The way in which a building is designed, constructed, maintained and operated has a profound impact on staff and student success. Learn about EPA’s latest work in promoting healthy, productive learning environments in all communities across the nation. During this session, you will hear the latest details on EPA’s *draft* voluntary model guidelines for siting of school facilities and the upcoming voluntary guidelines for state school environmental health programs.

Speaker: Peter Grevatt, Director, Office of Children’s Health Protection, U.S. Environmental Protection Agency

10:00 – 10:45 am The *IAQ Tools for Schools* Approach: Providing a Framework for Success Independence A
Thousands of school districts have put in place effective IAQ management programs, consistent with *IAQ Tools for Schools* guidance. This session explores what is known about effective school IAQ management—

how and why it works—and how different school districts develop, enhance and sustain healthy learning environments in schools. Speakers will describe the components of the Framework for Effective School IAQ Management. In addition, representatives from faculty programs will describe how they used these proven strategies to build and sustain their award-winning programs.

Speakers: **Tracy Enger**, *Indoor Environments Division, U.S. Environmental Protection Agency*; **Faculty School Districts and 2010 IAQ Design Challenge School Districts**

10:45 – 11:30 am The Framework for Effective School IAQ Management: Putting in Place the Pieces that Work.....Independence A

This session will showcase faculty school districts and how they use the Framework for Effective School IAQ Management: Six Key Drivers in their districts. They will discuss the usefulness of the Framework and its underlying theory for planning and implementing successful IAQ management programs.

Speakers: **Tracy Enger**, *Indoor Environments Division, U.S. Environmental Protection Agency*; **Faculty School Districts**

Faculty School Districts

- Baltimore County Public Schools (Baltimore, MD)
- Blue Valley School District (Overland Park, KS)
- Charlotte-Mecklenburg Schools (Charlotte, NC)
- Hartford Public Schools (Hartford, CT)
- Katy Independent School District (Houston, TX)
- Newark Public Schools (Newark, NJ)
- North East Independent School District (San Antonio, TX)
- The School Board of Broward County (Fort Lauderdale, FL)
- West Carrollton School District (West Carrollton, OH)

11:30 – 11:45 am Coffee Break

11:45 am – 12:45 pm Concurrent Session A Using IAQ as a Teaching and Learning Tool in Your District.....Independence FGHI

Students can often play a key role in IAQ management at school and can even help IAQ management issues become institutionalized within a school district. This session will describe educational resources available for integrating IAQ issues into classroom lesson plans and highlight various activities for student participation.

Speakers: **Pat Nicholson**, *Head Custodian, Brownsville Elementary School, Washington Education Association*; **Jennifer Caffrey**, *Tech Ed Teacher, Lyme-Old Lyme Middle School*; **Miecha Galbraith**, *Consultant*

Radon Management in SchoolsLafayette/Farragut

Radon is one of the most hazardous indoor air pollutants. Thousands of classrooms nationwide have elevated radon levels. Schools can take simple steps to test for radon and reduce risks to occupants if high levels are found. Presenters will showcase effective radon-in-schools projects and discuss successful strategies for addressing this serious environmental health risk.

Speakers: **Neil K. Case**, *Mechanical Systems Engineer, Colorado Springs School District #11*; **Chrystine Kelley**, *Environmental Protection Specialist, Hazardous Materials and Waste Management Division, Radon Coordinator, Colorado Dept. of Public Health and Environment*; **Dan Moors**, *Environmental Services Technician, School District #11 Environmental Services*

Asthma Management in Schools Independence BCDE

Over 5 million school-age children—that’s 3 students in an average classroom of 30—have asthma. Asthma is a leading cause of absenteeism, accounting for millions of missed school days each year. Asthma-friendly schools are those that create safe and supportive learning environments for students with asthma and have policies and procedures that allow students to successfully manage their asthma. Learn how your district can help students with asthma stay healthy and be ready to learn by using NAEPP, EPA and CDC resources to develop an asthma management plan. Faculty school districts will present some of their successes, and small groups will brainstorm solutions for challenges faced by participants.

Speakers: **Pamela Collins**, *Centers for Disease Control and Prevention*; **Lani Wheeler**, *The Cadmus Group, Inc.*; **Elizabeth Burton**, *Asthma Management Nurse, Charlotte Mecklenburg Schools*; **Diane Rhodes**, *Director of Asthma Education, North East Independent School District*; **Marilyn Hammett**, *Coordinator, Health Services, Louisiana Recovery School District*



Overcoming Obstacles: Funding Your IAQ Management Program [Conference Theatre](#)

There is no magic pill or one winning way to successfully fund an IAQ management program within a school district. There are a variety of cost-saving programs that can divert funds for IAQ management. Presenters will showcase how they have utilized the *IAQ Tools for Schools* Program and creatively used other sources of revenue to fund IAQ management in their districts.

Speakers: **Dave Hill**, *Executive Director, Facilities and Operations, Blue Valley School District*; **Frank DiNella**, *Director of Operations, Keller Independent School District*; **Rusty Clifford**, *Superintendent, West Carrollton School District*; **Dana Green**, *Director of Business Services, West Carrollton School District*

12:45 – 2:00 pm Networking Lunch [Independence A](#)

Connect with colleagues in your EPA Region to discuss healthy school environment challenges specific to your local, state and regional area as well as opportunities for future collaboration.

2:00 – 3:30 pm Applying the Framework: Implementing Technical Solutions [Independence A](#)

This session will describe the technical elements that comprise an effective IAQ management program in school districts. Learn about the key elements that are critical to any successful program and the wealth of technical resources that are available to assist you in putting in place the components for success.

Speakers: **Tracy Enger**, *Indoor Environments Division, U.S. Environmental Protection Agency*; **Faculty School Districts**

3:30 – 3:45 pm Break

3:45 – 4:45 pm Concurrent Session B (Repeated)

- Using IAQ as a Teaching and Learning Tool in Your District
- Radon Management in Schools
- Asthma Management in Schools
- Overcoming Obstacles: Funding Your IAQ Management Program

5:00 – 7:00 pm Awards Ceremony [Independence A](#)

Join in a celebration to honor the winners of the prestigious *IAQ Tools for Schools* National Awards. Come learn what these award winning programs are doing to reduce environmental risks in their schools and communities. Light hors d'oeuvres will be served.

Speakers: **Mike Flynn**, *Director, Office of Radiation and Indoor Air, U.S. Environmental Protection Agency*; **Gina McCarthy**, *Assistant Administrator, Office of Air and Radiation, U.S. Environmental Protection Agency*

January Friday 14

7:00 am Collaborative Design Teams Meet and Greet Breakfast [Independence Foyer and A](#)
Continental breakfast provided. Meet your IAQ Collaborative Design Team Members as you prepare to work together over the next day-and-a-half to design effective solutions to real IAQ challenges that real schools are facing.

8:00 – 8:30 am Welcome: Preparing to Put Your Knowledge into Action [Independence A](#)

Speaker: **Tracy Enger**, *Indoor Environments Division, U.S. Environmental Protection Agency*



8:30 – 10:00 am Schools with Real IAQ Challenges: Finding Solutions Together Through Problem-Based Learning Independence A
Get ready to apply your newly acquired knowledge to a real-world IAQ challenge! In this interactive session, participants will hear from IAQ Design Challenge School Districts about the real IAQ issues they are facing. Participants will work as Symposium Collaborative Design Teams to identify solutions and prepare recommendations for one of these real-world situations.

Speakers: **Tracy Enger**, *Indoor Environments Division, U.S. Environmental Protection Agency*; **2011 IAQ Design Challenge School Districts**

10:00 – 10:15 am Break

10:15 – 11:15 am Breakout Sessions 1

Fresh Air: Optimal HVAC Management for Improved Health Independence BC
This practical discussion of school heating, ventilation and air conditioning (HVAC) systems will highlight the importance of proper design, commissioning, maintenance and operations of school equipment. Speakers will review the latest innovative tools and technologies available for school facility managers and operations and maintenance staff. This session will highlight the importance of proper ventilation as a key component in providing healthy learning environments.

Speaker: **Ian Hadden**, *Client Liaison for Engineering and Sustainable Design, Fanning Howey*

Mold and Moisture: Double Trouble for Schools Conference Theatre
Controlling mold and moisture in school buildings is essential to creating healthy school environments for students and staff, saving significant financial costs and garnering community trust. Participants will learn the basics about mold, myths about mold, when mold testing is necessary and when it's not, and practical solutions for mold prevention and management. Bring your questions for this interactive and informative session.

Speaker: **Terry Brennan**, *President, Camroden Associates, Inc.*

Pest Prevention: Integrated Pest Management in Schools Independence DE
The use of harmful pesticides in school facilities can have dangerous consequences for staff and students. This session will teach the fundamentals of integrated pest management (IPM) practices. Speakers will review the latest tools and tips for schools using IPM, share cost-saving results and provide least-toxic methods for pest management in the school environment.

Speaker: **Sherry Glick**, *Office of Pesticide Programs, U.S. Environmental Protection Agency*

Cleaning and Maintenance: Green Cleaning Lafayette/Farragut
It is possible to save money and time while maintaining clean and healthy facilities by using a green cleaning program. In addition, the products you choose to clean your schools can have an impact on the health of students and staff. This session will highlight key aspects of such a program, including environmentally preferable cleaning products, training, policy recommendations and public awareness initiatives.

Speaker: **Rocke Whitney**, *Director of Facility Support, North East Independent School District*; **Joseph Koch**, *Branch Manager, Buckeye International, Inc.*

Smart Materials Selection: Improving the Indoor Environment Independence FG
Choosing the appropriate products and materials is critical in designing and furnishing high performance schools. Usually the most effective way to improve IAQ is to choose materials that emit no or low levels of pollutants or irritants. This session will provide attendees with effective strategies for choosing building materials, furnishings and mechanical equipment that contribute to healthy IAQ in schools.

Speaker: **Robert Krickovich**, *Coordinator, Facilities & Construction Management, Broward County Public Schools*



Aggressive Source Control: Eliminating Contaminants at the Source Independence HI

One of the most effective ways to improve IAQ is to eliminate individual sources of pollution or to reduce their emissions. From elementary school maintenance closets to high school chemistry labs, schools use a variety of chemicals. When they are mismanaged, these chemicals can put students and school personnel at risk of exposures. Learn how you can develop a successful chemical management and inventory plan to ensure that all schools are free from unnecessary hazards.

Speaker: Kristina Meson, *U.S. EPA School Chemical Cleanout Campaign*; **Michelle Lusk**, *Director of Government Affairs, Cement Kiln Recycling Coalition*

11:15 am – 12:30 pm Radon Awards Luncheon Independence A
Join in honoring the winners of the National Radon Poster Contest and view their prize-winning entries.

12:30 – 1:00 pm Team Caucus Independence A
Symposium Collaborative Design Teams will reconnect to share highpoints of their breakouts amongst group members.

1:00 – 1:15 pm Break

1:15 – 2:15 pm Breakout Sessions 2 (Repeated)

- Fresh Air: Optimal HVAC Management for Improved Health
- Mold and Moisture: Double Trouble for Schools
- Pest Prevention: Integrated Pest Management in Schools
- Cleaning and Maintenance: Green Cleaning
- Smart Materials Selection: Improving the Indoor Environment
- Aggressive Source Control: Eliminating Contaminants at the Source

2:15 – 2:30 pm Break

2:30 – 3:30 pm Finding Solutions: The Virtual Walkthrough Independence A
This interactive session will describe how to conduct a facility walkthrough to identify solutions to common IAQ problems. Using examples from the challenge school districts, presenters will describe how to use the *IAQ Tools for Schools* checklists as a basis for conducting a walkthrough investigation.

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

3:30 – 5:00 pm Design Time and Work Independence A

January Saturday 15

7:00 am Collaborative Design Team Working Breakfast Independence Foyer and A
Continental breakfast provided. Finalize your team designs and scripts to prepare to present them to your IAQ Design Challenge School District.

8:00 – 8:15 am Welcome: Preparing for Action Independence A
Speaker: Tracy Enger, *Indoor Environments Division, U.S. Environmental Protection Agency*



- 8:15 – 9:45 am** **Sharing Solutions: IAQ Design Challenge Presentations** [Breakout Rooms](#)
 During this session, Symposium Collaborative Design Teams will finalize their work and share solutions to their design challenges with peers, panel experts and the IAQ Design Challenge School Districts. This interactive session will allow participants to learn from other teams and gain insight into the variety of opportunities available using the Framework and Technical Solutions to address IAQ management issues.
Speaker: Tracy Enger, *Indoor Environments Division, U.S. Environmental Protection Agency*
- 9:50 – 11:00 am** **IAQ Tools for Schools Connector in Action: Action Planning** [Independence A](#)
 Building on all of the learning and insight gained throughout the Symposium, attendees will develop individual or team action plans to take back to their school districts. During this action planning time, attendees may also view the IAQ Design Challenge solutions to gather ideas for their own individual or team plans.
Speaker: Tracy Enger, *Indoor Environments Division, U.S. Environmental Protection Agency*
- 11:00 am – 12:15 pm** **Sharing Solutions: IAQ Design Challenge Feedback and Plenary** [Independence A](#)
 As the culmination of the Symposium Collaborative Design Team’s work, the IAQ Design Challenge School Districts will present their action plans for moving forward on addressing their IAQ management challenges. Attendees will also have an opportunity to share items from their individual action plans.
Speakers: Tracy Enger, *Indoor Environments Division, U.S. Environmental Protection Agency*; **2011 IAQ Design Challenge School Districts**
- 12:15 pm – 12:30 pm** **Leaving in Action: Student Perspectives on the Importance of IAQ** [Independence A](#)
 Student winners of the 2010 CEFPI School of the Future Design Competition discuss their projects and share their perspectives on why attention to facility design and operations plays an integral part in ensuring student achievement. Hear how student involvement plays an important role in IAQ management and witness firsthand how these student IAQ champions are making a difference in their district.
Speakers: Megan Cushman and Alexis Kolar, *Students, Lyme-Old Lyme Middle School*
- 12:30 pm** **Adjourn**

