Women in Green Cleaning Webinar

June 2, 2017
Logistics

- Webinar will run approximately one hour.
- A recording of the webinar will be available online.
- Please take two minutes to complete the survey at the end.
Join the Discussion!

• Follow @healthyschools for the latest on our schools, environment and education.
• Tweet #greenclean to share your thoughts!
Q&A Session

• Q&A will be held during the final 15 minutes.
• Ask questions through the “chat” in the lower right side of your screen.
About Healthy Schools Campaign
About Green Clean Schools
What is Green Cleaning?

Our Five Step Approach

1. Prepare Your School
2. Identify Green Cleaning Products
3. Introduce Green Equipment + Supplies
4. Adopt Green Cleaning Training + Procedures
5. Share the Responsibility

Green Clean Schools
greencleanschools.org
Upcoming 2017 Events

Green Clean Schools Leadership Institute
• July 12-14
• Salt Lake City, Utah

Green Clean Schools Forum at ISSA/INTERCLEAN
• Sept. 11-12
• Las Vegas, Nevada

Register at greencleanschools.org
Today’s Panelists

- Kim Thomas, Executive Director, Plant Services and Custodial Operations, Clarke County School District in Georgia
- Diana Stewart, President, EnvirOx
- Shawna Cragun, Director of Custodial Services, Davis School District in Utah
- Tracy Washington Enger, Indoor Air Quality Tools for Schools Project Manager, EPA
Kimberly Thomas

Executive Director
Plant Services & Custodial Operations
Clarke County School District
Athens, Georgia
Inspiration.. Challenges.. & Lessons Learned

- “G.R.I.T.S.”
- Working, Working, Working everywhere
- Never Stop Using your EARS
WHY Green Cleaning?

Commitment to providing Healthy Facilities

Environmental Sustainability

Indoor Air Quality

Workplace Safety

Right thing to Do!!
Diana Stewart

President, EnvirOx
My Story

1998
The Family Business

2004
Making a Difference – Joining the Cause

2015
President, Owner, Leader

2017 and Beyond
Challenges and Opportunities

Know what you stand for, make it clear and stick to it.

A business is not a democracy, but it is a collaboration.

Lead by example.

You can’t be everything to everybody. Make your choices, don’t let others make them for you.

Surround yourself with people who you admire and respect.
Drive forward a revolution of sustainable cleaning solutions. EnvirOx will change the way facilities are cleaned to support the health and wellbeing of all people for generations to come.

✓ We achieve success through individual and organizational accountability.

✓ Sustainability is a moving target; innovation is our guide.

✓ Education is the way to a better future. EnvirOx supports and promotes educational initiatives through our charitable giving and community participation.

✓ A healthy living and working environment should be the choice and right for all people.

✓ It is our responsibility to conserve resources for future generations.
Shawna Cragun

Director, Custodial Services Davis School District
President Elect- Utah Schools Custodial Managers Association
Spotlight Spokesperson, Indoor Air Quality Division, EPA
My Path to Green

- Personal
- Procurement
- Custodial
Challenges

- Value of Green
- Gender
Why....

• Because it’s the RIGHT thing to do....

• WHY NOT GREEN CLEANING?
EPA Has the Resources to Help You!

IAQ Tools for Schools Action Kit

SAFER CHOICE
Meets U.S. EPA Safer Product Standards
epa.gov/saferchoice

IAQ Tools for Schools Mobile App

IAQ Master Class Professional Training Webinar Series

New! School IAQ Assessment Mobile App

Organize

Communicate

Evaluate

Assess

Act

Plan

Framework for Effective IAQ Management

Energy Savings Plus Health Guide

epa.gov/iaq-schools

Indoor Air Quality (IAQ)
Creating Pristine Palaces of Learning
www.epa.gov/IAQ/SCHOOLS

Mobilizing Communities to lead the nation in
delivery of quality asthma care
AsthmaCommunityNetwork.org
Student-Centered Educational Home

- Health Education
- Physical Education
- Health Services
- Nutrition Services
- Family and Community Involvement
- Health Promotion for Staff
- Healthy and Safe School Environment
- Mental Health and Social Services

Indoor Air Quality (IAQ)
The Three-Legged Stool: Making the Case for Proactive Indoor Air Quality Management and Healthy School Environments
important health statistics

• Half of teachers and students are exposed to indoor pollutants such as lead, asbestos, chemical fumes, pesticides, molds, and other toxins at school.

• American kids miss 14 million school days every year, often because of poor air quality and related medical conditions such as asthma.

• 6% of school janitors are injured or made sick on the job by chemical exposure.¹
IAQ Tools for Schools Action Kit

What is it? A practical plan for improving your IAQ knowledge using straightforward solutions and individuals already on staff

The Action Kit includes—

• Reference guides
• Checklists
• Fact sheets
• Sample policies
• Comprehensive IAQ management plans
• The Framework for Effective School IAQ Management
• The Seven Technical Solutions
The Framework for Effective School IAQ Management

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

**Communicate**
- Share Your Goals
- Make IAQ Meaningful
- Be Transparent and Inclusive
- Communicate Results (Return on Investment)

**Evaluate**
- Solicit Feedback
- Capture Return on Investment
- Measure, Assess and Track Program Implementation
- Document Accomplishments
- Determine the Most Effective Strategies for Continuous Improvement

**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

*Indoor Air Quality (IAQ)*
The Framework for Effective School IAQ Management: Seven 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 Standards 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 and 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

**Integrated Energy Management Solutions**
- Protect IAQ during energy efficiency upgrades and building renovations
- Conduct regular HVAC maintenance and tune-ups
- Install programmable thermostats
- Consider performing post-construction commissioning for HVAC systems
- Control moisture in building assemblies, mechanical systems and occupied spaces
Effective Cleaning and Maintenance

- Conduct routine inspections of the 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 a damp cloth.
- Vacuum using high-efficiency filters.

Photo credit: EPA Walkthrough of Langston Hughes Elementary School, New Orleans, LA
Women Leaders
Collaborate and Team Build

ORGANIZE
- Develop Systematic Approach
- Identify Existing Assets
- Design Standard Operating Procedures
- Empower an IAQ Leader
- Build an Effective Team
- Create Champions
- Secure Senior Buy-In
Women Leaders
Network and Communicate

COMMUNICATE
• Share Your Goals
• Make IAQ Meaningful
• Be Transparent and Inclusive
• Communicate Results
  (Return on Investment)

Indoor Air Quality (IAQ)
Women Leaders
Watch, Listen and Take Notice

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

Walk-Thrughos:
Women Leaders
Mission Focused and Strategic

PLAN
- Prioritize Actions
- Put Goals in Writing
- Start Small
- Work in Stages
- Plan for the Future
Women Leaders
Take Initiative to Develop and Nurture Others

ACT
- Educate Staff About IAQ to Change Behavior
- Train Occupants to Address IAQ Risks
- Address the Source of Problems
Women Leaders
Entrepreneurial and Driven for Results

Evaluate
- Solicit Feedback
- Capture Return on Investment
- Measure, Assess and Track Program Implementation
- Document Accomplishments
- Determine the Most Effective Strategies for Continuous Improvement

Bold Goals Value Proposition Summary
NEISD Asthma Awareness Education Program

Initial input cost of $63,000
- Financial Impact
  REDUCTION in annual average number of school days missed by 8,000 students with asthma — 1 day = $267,552; 50% = $1 Million
- Academic Impact
  DECREASE in asthma-related clinic visits
  REDUCTION in Loss of Academic Instruction Time
  Asthma students achieve full academic potential
- Human Impact
  IMPROVED Quality of Life, Change in Culture

Do school environments play a role in the recent rise in asthma prevalence rates?

Environmental Impact on Health of Students Asthma/Allergy
Symptom Threshold
Cumulative Effect of Asthma Triggers

Allergens in the School Setting Found in Classroom Dust
- Cockroaches
- Dust Mites
- Cat Dander

Women Leaders Pursue Professional Development

These 10 technical Web-based trainings are designed to build the capacity of school district staff across the country to start, improve or sustain an IAQ management program.

1. Creating Healthy Indoor Environments in Schools
2. Making the Case
3. HVAC Systems
4. Moisture and Mold
5. Energy Efficiency and IAQ
6. Integrated Pest Management
7. Asthma Management
8. Cleaning and Maintenance
9. Materials Selection
10. Source Control

www.epa.gov/iaq-schools/indoor-air-quality-schools-master-class-webinar-series
Women Leaders
Passionate and Caring
If It’s Not Healthy
It’s not Green
Questions?
Platinum Sponsors

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- ProTeam
- Rochester Midland Corporation
- Solaris Paper
- Spartan Chemical Company, Inc.
Thank You!

- Visit greencleanschools.org for resources and to register for upcoming events
- A recording of the webinar and the presentation will be posted to our website and emailed to attendees.