

**BALTIMORE COUNTY PUBLIC SCHOOLS**

**DATE:** September 20, 2005

**TO:** **BOARD OF EDUCATION**

**FROM:** Dr. J. Hairston, Superintendent

**SUBJECT:** **REPORT ON ENVIRONMENTAL ASSESSMENT ADVISORY COMMITTEE PROPOSED INITIATIVES**

**ORIGINATOR:** J. Robert Haines, Deputy Superintendent, Business Services

**RESOURCE** Michael G. Sines, Executive Director, Department of Physical Facilities  
**PERSON(S):** Craig M. Ebersole, P.E., Special Assistant

**RECOMMENDATION**

County Council Resolution 143-03 of December 10, 2003 urged the Board of Education to form an advisory committee with specific interested parties and expert staff to ensure the quality of indoor air environment in the schools. The Superintendent assigned the charge and responsibility of the committee to the Department of Physical Facilities in April 2004.

Consider the Environmental Assessment Advisory Committee's July 2005 proposed initiatives. Endorse the "Indoor Air Quality – Tools for Schools" pilot program proposed by the American Lung Association of Maryland and funded by an Environmental Protection Agency Grant.

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MGS/jad

Appendix I – Presentation

**Environmental Assessment Advisory Committee Proposed Initiatives**  
**Executive Summary**  
**July 2005**

The Superintendent formed a committee to review the environmental practices of the school system in consideration of the Baltimore County Council Resolution No. 143-03. The charge to the committee and the proposed initiatives of the committee are as follows:

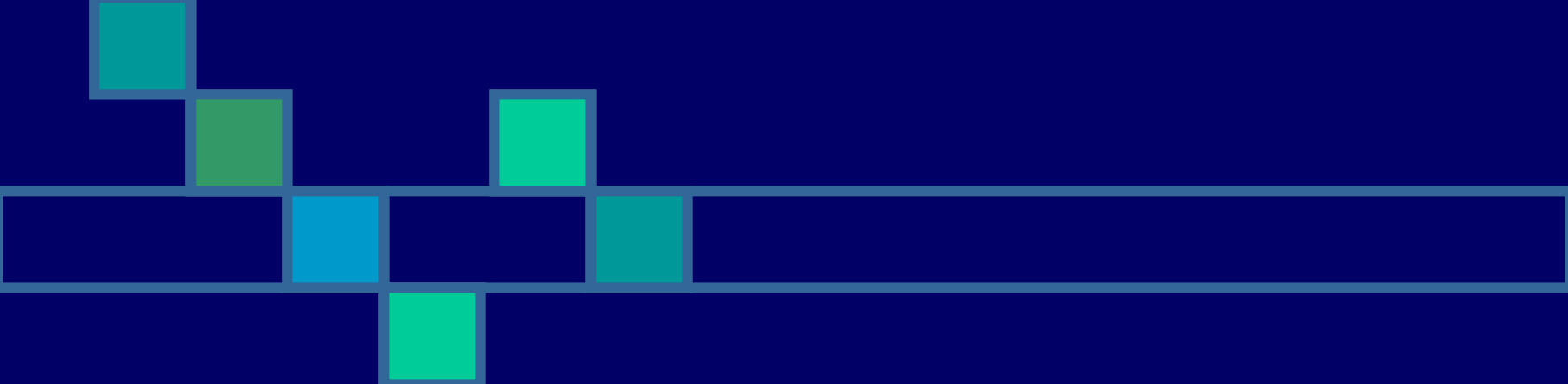
**Charge to the Environmental Assessment Advisory Committee**

- The Environmental Assessment Advisory Committee is to serve as an advisor to the Office of Comprehensive Maintenance and Construction.
- The Environmental Assessment Advisory Committee will develop recommendations for a plan to ensure the quality of indoor environments in the Baltimore County Public Schools.
- Standard maintenance practices and the Office of Maintenance and Construction protocol will serve as the framework for recommendations for a plan to ensure the quality of indoor environments in the Baltimore County Public Schools.
- Environmental Protection Agency (EPA) guidelines and Environmental Services protocol will serve as the framework for recommendations for a plan to ensure the quality of indoor environments in the Baltimore County Public Schools.
- The recommended plan will comply with standard maintenance practices and conform to EPA guidelines.

Strategies suggested by the Environmental Assessment Advisory Committee are included in the Green Building Program Handbook. The final draft of the initiatives proposed by the committee is as follows:

**Proposed Initiatives of the Environmental Assessment Advisory Committee**

- Publish the *Protocol for Environmental Health Investigations*.
- Provide a proactive program at each school for environmental communication through the “Indoor Air Quality - Tools for Schools” program as a pilot in forty schools.
- Increase funding for preventive maintenance including air filters and effective housekeeping practices.
- Provide watertight buildings in renovations or modernizations through capital programs, and upgrade ventilation systems to meet current standards of the American Society of Heating Refrigerating and Air Conditioning Engineers.



# Environmental Assessment



Advisory Committee  
Recommendation Plan  
July 2005



## **Members of the Environmental Assessment Advisory Committee**

**Craig Ebersole, P.E., Chairman, Special Assistant, Physical Facilities**

**Robert Merrey, Co-Chairman, Environmental Services Supervisor**

**Michele Prumo, Coordinator, Health Services**

**Cheryl Bost, President, Teachers Association of Baltimore County, Maryland**

**Rob Santa Croce, Principal, Sparrows Point High School**

**Gary Urban, Aerosol Monitoring and Analysis**

**Teresa Streb, Legislative Aide, Baltimore County Council, Sixth District**

**Dr. John Bacon, M.D., Asthma and Allergy Expert**

**Temekia Butler, Parent Representative**

**Paul Gallo, Baltimore County Schools Student**

**Sean Lee, Operations Supervisor**

**Michael Zagraiek, Field Representative, Maintenance**

**David Carroll, Director of Baltimore County Department of Environmental Protection and  
Resource Management**



# Background



- Baltimore County Council Resolution

- Green Building Program


- EPA Guidelines

Indoor Air Quality - Tools for Schools






# Mission Statement

- Evaluate current building maintenance and environmental procedures.
  - Recommend effective procedures and practices to ensure the quality of the indoor environment in our schools.
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# Goals

- Ensure that students and staff are provided a healthy school environment.  
*(Blueprint for Progress – Goal 4)*
  - Increase school maintenance and achieve high levels of cleanliness and comfort.
  - Implement training on Green Building Program processes.
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# Objectives

- Promote the inclusion of school personnel, parents and PTA in the process of reviewing school environmental conditions.
  - Create a proactive system for addressing environmental conditions as a standard operating procedure.
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# Objectives

- Develop a Protocol for responding to environmental concerns as part of the Green Building Program.
  - Track maintenance work orders using the new Computerized Maintenance Management System.
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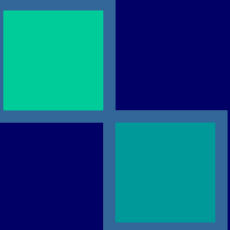



# Objectives

- Establish the activities for maintenance and training for the 2007 operating budget.
  - Determine the most effective plans for the training of staff, students and stakeholders.
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# Green Building Program

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- Model for maintenance and environmental procedures
  - Preventive Maintenance, Housekeeping, Pest Management, and Environmental Investigation and Response
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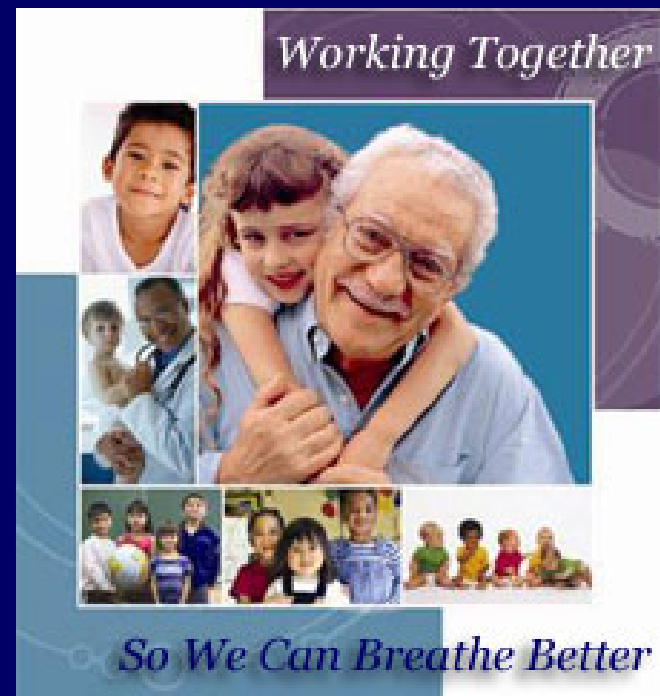


Partnership with Schools

Monitor Schools

Facilitate Process using  
IAQ Tools for Schools

EPA Grant to American  
Lung Association





**AMERICAN LUNG ASSOCIATION®**

*Improving Life, One Breath at a Time.®*

*of Maryland, Inc.*

**ABOUT US**


## Indoor Air Quality



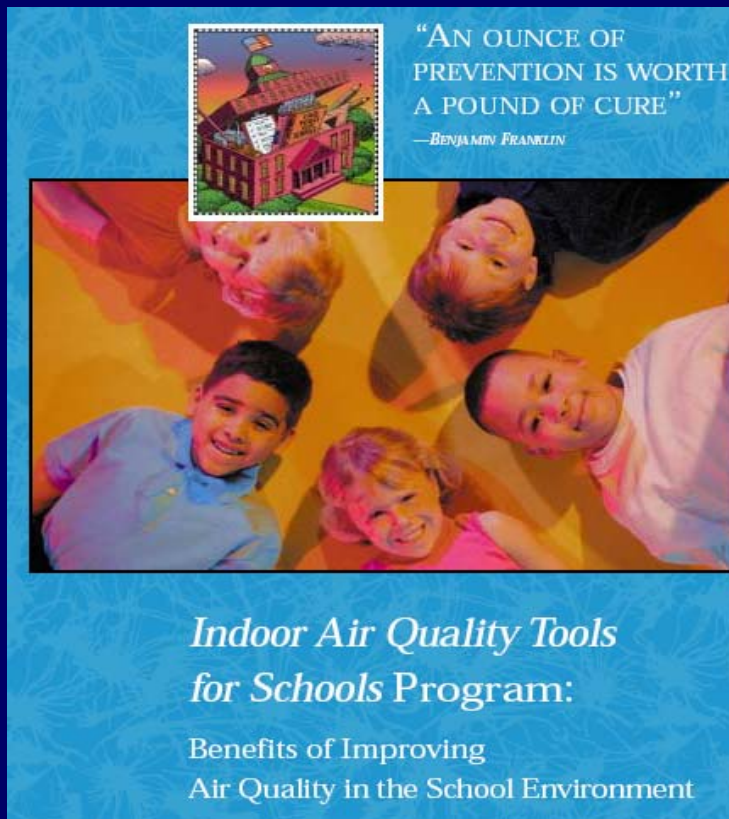
**Tools For Schools  
Training Modules 1 & 2**



# Proposed Initiatives

- **Publish the Protocol for Environmental Health Investigations in the Green Building Program.**
  - **Provide a proactive program through IAQ-Tools for Schools, funded by EPA Grant.**
  - **Increase funding for preventive maintenance including air filters.**
  - **Provide watertight buildings and upgraded ventilation systems in all renovation capital programs.**
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# Green Building Program Handbook



- Protocols
- Checklists for IAQ Monitoring
- Preventive Maintenance
- Housekeeping
- Pest Management



# EPA IAQ - Tools for Schools



# Preventive Maintenance Program



Chris Roberts  
DDC Technician  
Installing a new  
discharge air sensor  
in unit ventilator at  
Perry Hall High.  
6/30/04

- HVAC Air Filters
- BAS Technicians
- Preventive Maintenance Program Funding

# HVAC Air Filter Maintenance



- Air Filtration is essential to good IAQ.

# Window Systems Replacement



- Many of the schools renovated in the past five years have failed window systems.
- All future renovations must include a watertight building envelope.

# CONCLUSION



“AN OUNCE OF  
PREVENTION IS WORTH  
A POUND OF CURE”

—*BENJAMIN FRANKLIN*



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