



**Department of Facilities Management  
Division of Maintenance**

# **POOLESVILLE HS STAFF MEETING IAQ UPDATE**

March 8<sup>th</sup>, 2007

**Sean Yarup, MPH**



**Department of Facilities Management  
Division of Maintenance**

# **AGENDA**

- **Update**
  - **Underground sewer vault sampling report**
  - **UV Light for ventilation systems**
  - **Response to recent IAQ complaints**
  - **HVAC improvement plan**
- **Building Dynamics Presentation**
- **Discussion**



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## **UNDERGROUND VAULT SAMPLING REPORT**

- **Representative samples were taken from pump-house well and septic tank on 2/26/07 by M.A. Cecil & Associates**
- **Based on laboratory analysis, the contents were determined to be non-toxic and non-corrosive.**
- **Sampling report findings were corroborated by independent environmental firm**
- **Recommended that local sewer authority be contacted for proper disposal of “standing water”**



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## **UV LIGHT FOR VENTILATION SYSTEMS**

- **No consensus standards or guidelines for the design, application, or testing of ultraviolet radiation systems for purifying the indoor air**
- **ASHRAE does not have a policy or recommendation on the use of UV light in air systems for microbial control**
- **Without such standards, MCPS cannot ensure the performance or reliability of these systems**
- **Has not been systematically studied in school room applications**



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## **RESPONSE TO RECENT IAQ COMPLAINTS & REQUESTS**

- **Replace musty carpet**
- **Establish monthly staff meetings**
- **Conduct refresher training for building staff on Building Maintenance Plan implementation**
- **Place temperature and humidity monitors in identified locations**
- **Follow-up on any outstanding HVAC-related work orders**



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## **HVAC IMPROVEMENT PLAN**

- **Replace horizontal and vertical unit ventilators and associated branch piping, ductwork and insulation**
- **Project under review by state**
- **Scheduled for Summer 2007**



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## **BUILDING DYNAMICS**

### **Ed Light, M.S., CIH**

- **Conducted over 1000 IAQ investigations since 1982**
- **Co-author EPA/NIOSH Manual: “Building Air Quality”**
- **Past chair of AIHA Committee on IEQ**
- **Co-chair of International Task Force on IAQ Investigation Protocol**

### **Jim Bailey, M.S., P.E.**

- **20 years consulting engineering experience**
- **Consultant to U.S. Public Health Service**
- **Recipient of several ASHRAE awards**



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## DISCUSSION

### Points of Contact

- Sean Yarup, Environmental Safety Coordinator (phone: 301-926-4317)
- Mike Clouse, Division of Construction
- (phone: 240-314-1027)
- Ed Light, Building Dynamics



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## MCPS IAQ Website

MCPS IEQ Team - Microsoft Internet Explorer

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MONTGOMERY COUNTY PUBLIC SCHOOLS Rockville, Maryland

ENVIRONMENTAL SERVICES / INDOOR AIR QUALITY

INDOOR ENVIRONMENTAL QUALITY (IEQ) TEAM

**MCPS IEQ TEAM**

**MOST REQUESTED**

- > [IAQ Complaint Forms](#)
- > [Approved Products List](#)
- > [What is a BMP?](#)

**ABOUT INDOOR ENVIRONMENTAL QUALITY (IEQ)**

- > [Tips for Teachers](#)
- > [FAQ's](#)
- > [Downloads](#)
- > [Links](#)

**JOB OPENINGS**

**CONTACT US**

T: 301.926.4409  
F: 301.926.4820



**Our Mission**

*To achieve, maintain, and where necessary, to restore an indoor air quality environment in which everyone in a Montgomery County Public Schools (MCPS) facility can perform the necessary tasks of learning, teaching, administering, and sustaining facilities in a safe and healthy manner.*

**About the IEQ Team**

MCPS created the IEQ Team in 1999 to improve indoor environmental conditions in its facilities. The team consists of an environmental safety coordinator; environmental safety

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