



# PREVENTION quarterly



SPRING 1999

## Partnership Between Department of Defense, Federal Facilities and the State of Ohio Announced

Department of Defense entities and selected federal facilities in Ohio have entered into a pollution prevention partnership with the State of Ohio. Since its initial meeting in December 1997, the partnership has grown and now includes Wright-Patterson Air Force Base, Lima Army Tank Plant, Defense Supply Center Columbus, Army Reserves, Army Guard, Air Force Reserves, and Ohio Air National Guard facilities on the "DOD" side. Non-DOD entities include the State of Ohio, Ohio EPA, the U.S. EPA National Risk Management Research Laboratory and the Coast Guard.

A formal Charter delineating the Vision, Mission Statement and Goals has been developed to gain upper level management endorsement of the Partnership. The overall purpose of the Partnership is to establish a forum to create a working relationship to promote and implement pollution prevention as the preferred strategy for protecting the environment, conserving resources, fostering community well-being and enhancing mission

readiness at military/Federal facilities in Ohio.

The Partnership has established a Listserv to facilitate the exchange of information among Partnership members. Tying in this Listserv with other State pollution prevention partnerships will provide a nationwide clearinghouse of pollution prevention information. This will promote technology transfer both within the Partnership itself and among other government agencies and local communities.

Military installations have a myriad of waste streams where pollution prevention initiatives can be of benefit. The partnership is concentrating emphases on available education, awareness and training resources to better inform personnel performing these functions on pollution prevention alternatives. The Partnership also is collaborating on opportunity assessments at installations to identify opportunities for low cost improvements.



Partnership entities have identified a number of specific challenges in waste battery disposal, storm water pollution prevention, paper/office waste recycling and pesticides/fertilizer handling. The Partnership hopes to inculcate a pollution prevention ethic and awareness among installation personnel and create incentives for such personnel to identify and undertake pollution prevention practices. As the Partnership matures, a compendium of "success stories" will be compiled to serve as examples of what has worked well for different waste streams. This will assist other entities adopt processes with documented track records of success. The Partnership meets approximately every two months. Meetings have been held in Columbus, Cincinnati and Dayton. It is hoped that the collaborative discussions and



information exchange will result in a synergism and bias for selecting pollution prevention alternatives to reduce waste.

Ohio EPA recently relocated to the Lazarus Government Center at 122 S. Front Street, which has given the agency the opportunity to redevelop an existing building in downtown Columbus. Occupying a renovated building instead of a newly constructed site saves valuable green space near Columbus. Special attention has been given to utilize many energy saving features in the Lazarus building.

### **Natural lighting**

When possible, existing sky lights have been reused to direct natural light to interior sections of the building. Lights near windows and sky lights dim based on available natural light. With a reduced number of fixtures needed, natural lighting will lower energy costs.

### **High-efficiency, fluorescent lighting**

Lighting is approximately 40 percent of the energy consumption in many commercial buildings. High-efficiency fluorescent lamps with electronic ballasts significantly reduce energy consumption. Electronic ballasts and fluorescent fixtures will offer a combined savings surpassing \$14,500 each year.

### **Occupancy sensors**

These automatic switches control lighting based on the presence or absence of people. The installation of occupancy sensors in enclosed areas, such as

restrooms, offices, and storage rooms, turn off lights when they are not needed. Occupancy sensors can save 50 percent of the energy used for lighting. Conservative estimates suggest that occupancy sensors in this building will save approximately \$5,000 each year.

### **Energy efficient exit signs**

Lazarus exit signs use LED (light emitting diode) technology instead of higher-watt bulbs, which run 24 hours per day. LED signs offer 95 percent energy savings, last 10 years longer, and will save approximately \$725 in electricity costs each year. From these technologies, Ohio EPA expects to save \$20,000 per year in electricity costs--an anticipated savings of 25 percent from older lighting technology.

### **Energy Management**

A computerized energy management system monitors and controls lighting and thermostat settings. One centralized computer system with sensors throughout the building adjusts heating, ventilation, air conditioning, lighting systems, and water management. This system will save approximately \$4,400 in yearly electricity costs and \$8,800 in natural gas costs. The following energy and water management devices were used:

- Energy efficient water coolers;
- Electric hand dryers in restrooms to save paper;
- Temperature sensors on hot water fixtures control water temperature and prevent the waste of hot water sitting in lines;
- Infrared hardware on sinks, toilets, and urinals control water use; and

- Water saving urinals and toilets.

### **Environmentally Friendly Features:**

- Double glass, argon-filled, low E-coating (a material that blocks ultraviolet rays) windows minimize solar heating and maximize efficiency.
- Carpet contains 25 percent recycled fibers from plastic beverage bottles.
- Paint contains 25 percent recycled fly ash material.
- The steel joints that construct the interior walls are approximately 50 percent recycled steel.
- Wall boards contain a recycled flue gas desulfurization material. This is a standard feature in many wall boards.
- Improved access to public transportation.

### **The Ohio Environmental Council Awards Pollution Prevention Pioneers**

On February 8, 1999, The Ohio Environmental Council (OEC) recognized pollution prevention (P2) success stories in the Cuyahoga River Watershed. Ashland Chemical, Avery Dennison, BP-Amoco, Cuyahoga County Public Library, FabriCare Technology Center, Rockwell Automation and Venture Lighting were awarded for improving the local environment, cutting costs, and increasing productivity through P2 activities.

## Business Helping Business: Cleaning and Coating Technologies for the 21st Century

Hear what other companies like yours are doing to cut costs and improve efficiency.

Ask questions about regulatory compliance without risk.

See first-hand if the new cleaning and coating techniques could work on your products.

*Is your company looking for a way to cut costs and improve efficiency? If so, the Institute of Advanced Manufacturing Sciences (IAMS) has a program for you.*

The Institute of Advanced Manufacturing Sciences (IAMS) has organized a new program to reduce volatile organic compounds (VOCs) and ozone pollution in the Cincinnati area. Through *Business Helping Business: Cleaning and Coating Technologies for the 21st Century*, companies can learn the latest on process improvement and new technologies. A focus on smaller businesses will help the Cincinnati area meet and maintain attainment for ozone and air quality. Participating with IAMS are the City of Cincinnati, Hamilton County, the Greater Cincinnati Chamber of Commerce and the Regional Ozone Coalition.

The Business Helping Business program offers two ways to learn the latest on process improvement and new technologies: businesses working one-on-one with mentor companies who have faced the same challenges; and informative workshops and tours where attendees can learn from

experts. The workshops will offer information on what companies are doing to cut costs and improve efficiency, offer opportunities to ask questions without risk, and provide first-hand opportunities to see new cleaning and coating techniques.

### Business to Business Partnerships

Through no-cost, confidential Business to Business Partnerships, participants can learn and benefit from the experience of companies who have successfully improved process efficiency themselves. Local companies will allow visits to see demonstrations of technologies that could reduce costs.

### Workshops

The series of five workshops will provide experts, and include supplier and other resource exhibits and a self-assessment tool for companies. Cost for each workshop is \$50, or \$150 for a package of the first four:

- May 14 - Process Improvement for Painting and Cleaning Operations
- July 16 - Alternatives for Metal Parts Cleaning
- September 17 - Painting/Coating Technologies
- November 5 - Project Management
- November 12 - Autobody Refinishing

For more information contact:

IAMS  
Rene Wierzbinski  
1111 Edison Drive  
Cincinnati, Ohio 45216  
(513) 948-2017

## 1999 Governor's Award Nominations

### Nominations Requested

Since 1986, Ohio EPA has coordinated the **Annual Governor's Awards for Outstanding Achievement in Pollution Prevention** to recognize companies, organizations, or individuals who have made exceptional efforts in reducing pollution through source reduction or recycling waste. Ultimately, these efforts help protect Ohio's environment and public health. The State of Ohio is soliciting nominations for the thirteenth annual Governor's Awards for Outstanding Achievement in Pollution Prevention.

**Nominations are requested by July 16, 1999**

**Contact Marcie Burrow for more information (614)644-3469**

## A Self-Help Manual for Automotive Service Operations

The Automotive Service Association of Ohio (ASA-Ohio), a trade association representing the automotive service/repair industry, with the help of the Office of Pollution Prevention (OPP), is developing an environmental manual for the automotive repair industry. The manual is being designed to help automotive service facilities learn how to voluntarily come into and maintain compliance with environmental laws and regulations, with emphasis on pollution prevention practices. The manual should be completed by the end of the year with distribution and workshops on the manual occurring next year. For more information contact Scott Compton of ASA-Ohio at (740)-548-4889 or Kirk Nofzinger of OPP at (614)-644-2809.

### How You Can Make a Difference

You can make the publication of Prevention Quarterly more environmentally friendly. Interested? Good. E-mail the Office of Pollution Prevention at [p2mail@epa.state.oh.us](mailto:p2mail@epa.state.oh.us), and request that we send you an electronic copy, an Adobe Acrobat PDF file, or a message indicating the newest version is now available on our Web page with the appropriate Web address. It's that easy to make a difference.

### Governor's Award for Excellence in Energy Efficiency

The Governor's Award for Excellence in Energy Efficiency recognition program honors individuals, businesses and industries that have used innovative approaches to improve energy efficiency, the environment and Ohio's economic competitiveness. If you are interested in applying for this year's award (deadline of June 1), contact Janly Wilkins, Office of Energy Efficiency, at (614) 466-6797.