



PREVENTION

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Office of
Pollution Prevention

City of Dublin's GreenWi\$e Program a Success

The city of Dublin (Franklin County) has reached its goal of enrolling 100 companies into its waste reduction assistance program. In February 1999, GreenWi\$e requested an evaluation of the program from approximately 60 of its members (companies that had been in the program over six months). The evaluation form requested information regarding the impact of the program on the company efforts to reduce waste, recycle and buy products with recycled content. Companies were also requested to quantify the results of their waste prevention and recycling efforts, and to comment on the usefulness of the program. Twenty-one companies returned the evaluation. Responses to these evaluations were used to help describe GreenWi\$e's accomplishments towards its educational objectives.



➤ Drs. Boltz & Rengert saved about 2,500 sheets of paper every 6 weeks by making scratch pads out of once-used paper, using e-mail, and eliminating the fax cover sheets.

➤ The Ohio Automotive Dealers Association (OADA) has reduced paper consumption in the office by using leftover promotional materials and half or less sheets of paper for interoffice memos, and e-mail for communication to members. These activities save an estimated 25,300 sheets of paper per year. They reduced kitchen waste by about 80% using nondisposable plates, mugs, etc., and save resources by reusing shipping boxes, signage, and other office materials. Last year the OADA also donated their old computers to a non-profit organization.

Waste Prevention Accomplishments

Waste Prevention activities conserve company resources by using less material to get the job done. Twelve companies responding to the February 1999 program evaluation reported an estimated collective reduction in paper use of over 230,000 sheets of paper per year (over 2,300 pounds of paper). Here's what some of the GreenWi\$e members are doing to prevent paper waste:

➤ Caldwell Banker, Inc. employs e-mail and double-sided printing, which has reduced paper use by about 1,000 sheets/month.

➤ Precision Concepts reduced internal paper use by an estimated 500 sheets every one to two weeks by reusing paper and communication by e-mail.

➤ The Willis Corroon Corporation of Ohio saves several hundred reams of paper a year (approximately 150,000 sheets) by scanning documents and storing them electronically, communicating by e-mail, cutting up used paper for scratch pads, and eliminating the fax cover sheet. They also reduce kitchen waste by using non-disposable kitchen products.

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Waste Reduction for the Vehicle Servicing Industry



A 14 minute video program which discusses how vehicle servicing and repair shops can reduce waste and increase productivity is now available from the Ohio EPA. "Profit from Waste: New Strategies for the Vehicle Servicing Industry" features several Ohio companies which recount the positive benefits they have attained from making basic changes to waste handling procedures.

The video addresses topics which are relevant to many servicing and repair facilities: management of waste motor oil and antifreeze, and parts cleaning. Traditionally, shops have paid to have waste oils, coolants and parts cleaning solvents hauled off-site for additional handling and eventual disposal. These direct costs may be significant, especially for smaller shops, and liability issues persist. Strategies presented in the video illustrate by way of example how these costs can be reduced or even eliminated.

Used oil, for example, can be burned in on-site waste oil furnaces, which are far more reliable and easier to operate than past models. Shops which heat with their own used oil eliminate the need for off-site hauling, not to mention associated liability. Likewise, spent antifreeze can be easily recycled on-site, or reclaimed off-site by reputable contractors. Coolants which are comparable in quality to new, unused material can be obtained for a fraction of the cost. Lastly, automated soap and water parts cleaners eliminate the need for solvents, and allow technicians to increase billable hours by reducing the time spent cleaning parts by hand.

Contact Chris Cotton in Ohio EPA's Southwest District Office at (800)686-8930 or (937) 285-6093 to borrow a copy of the tape. Or contact Chris via e-mail at chris.cotton@epa.state.oh.us. Copies may also be obtained through Ohio EPA's Office of Pollution Prevention at (614) 644-3469, or Small Business Assistance Office at (614) 728-8573.

- The Crown Motor Company saves about 22,500 sheets of paper per year by printing on both sides of the paper, circulating memos (instead of individual distribution), and using e-mail.

Companies also prevent waste by re-using materials and donating unwanted equipment or supplies that they would otherwise throw out for landfill disposal. Wendy's International, Inc. donates used binders and other items to Re:ART. This program operated by the Solid Waste Authority of

Central Ohio (SWACO), collects unwanted materials from the business community for reuse in arts and education. The Willis Corroon Corporation of Ohio has donated file cabinets, pads of paper, folders, and pentaflex files to Re:ART.

For more information on the city's GreenWi\$e program, contact Tammy Brown at the Dublin Department of Service at (614) 761-6570. Web site: www.dublin.oh.us

University of Cincinnati Professor Publishes New P2 Textbook



Dr. Paul Bishop

In 1996, University of Cincinnati Environmental Engineering Professor Paul Bishop received an Ohio Environmental Education Fund grant to develop a college course to promote the concept of pollution prevention across all engineering disciplines. The course,

“Environmentally Conscious Engineering,” has now been taught for several years and Dr. Bishop describes it as highly successful. While developing this course, he discovered that there were no appropriate textbooks available for an interdisciplinary course suitable for all engineering disciplines. Consequently, he undertook the task of writing such a book. Originally planned to be a 250-page book, it eventually grew to 750 pages to accommodate the needs of various engineering disciplines. McGraw-Hill has just published the new textbook, *Pollution Prevention: Fundamentals and Practice*, incorporating this curriculum. Both the book and the course provide an introduction to P2, but go well beyond this to cover topics such as improving manufacturing processes, life-cycle assessment, economics,

audits, water and energy conservation, design for disassembly, and sustainability.

An outline of Dr. Bishop’s course on pollution prevention may be found at www.cee.uc.edu/~pbishop/P2Slides.htm. Dr. Bishop may be reached at pbishop@uceng.uc.edu, (513) 556-3675.

Battelle Develops Winning Buy-Recycled Strategy



Battelle Memorial Institute continually seeks out products with recycled content that meet the organization’s “CAP” requirements (reasonable Cost, Availability, and good Performance). Whenever possible, Battelle drives down the cost of recycled products by soliciting competitive

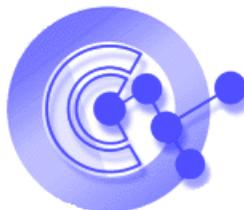
bids for products they purchase in large quantities, by establishing preferred customer agreements with key suppliers, and by allowing staff to purchase products from other suppliers to maintain competition. In addition to these ongoing activities, each year Battelle targets a particular commodity for improvement in recycled-content purchasing. Battelle focused on remanufactured toner cartridges in 1997 and recycled construction products in 1998. In total, the organization purchased 96 tons of products with recycled content in 1998, worth \$534,000. For more information, contact Jim Walters at waltersj1@battele.org, (614) 424-4746.

Ohio Takes National U.S. EPA WasteWise Honors

Ohio’s state employees are showing the rest of the country just how “waste wise” the Buckeye state can be. The state’s lengthy list of 1998 waste reduction and buy-recycled programs earned Ohio the title, “WasteWise Partner of the Year for State Government,” by the U.S. Environmental Protection Agency. Last year, Ohio agencies reduced paper usage by nearly 21,000 pounds,

The Ohio Environmental Education Fund Awards Grant to Ohio Chemical Council for ENVIROCHEM OHIO

The Ohio Chemical Council’s ENVIROCHEM OHIO program will develop a “Self-Help Guide to Environmentally Sound Chemical Operations” manual for the chemical industry, designed to be useful to small operators. The manual will include available pollution prevention resources. Regional workshops and training on the use of the manual will be provided to more than 100 companies with 226 facilities. The OEEF grant supplements funding for the project from the Ohio Air Quality Development Authority and in-kind contributions from the chemical industry. Contact Jeff Lewis, Ohio Environmental Protection Agency, at (614) 644-3469, for additional details.



collected 2.9 million pounds of recycled materials and five of the largest state agencies committed to increase recycled-content product purchases by 15 percent in 1999. The state also was recognized for encouraging businesses and other government entities to join WasteWise by making waste prevention and reduction an eligible activity of the Recycle Ohio! grant program. The division required participating grantees to report the amounts of waste reduced, which helped the division track statistics of local WasteWise partners. To learn more about the U.S. EPA's WasteWise program, please contact Patricia Raynak, Ohio Department of Natural Resources, at (614) 265-6333.

How You Can Make a Difference

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