

FEATURE ARTICLE

State Assistance Projects & Initiatives

Providing direct assistance for small and mid-size businesses as well as communities has been a fundamental part of the P2 efforts in all of the Northeast states. This assistance is designed to help these entities solve both compliance and P2 problems. Recently there have been a number of new assistance initiatives and projects that states have undertaken. The following sections provide a brief glimpse of those efforts underway in Connecticut, Vermont, Massachusetts, and New Hampshire. For information on other assistance efforts by state and local agencies, see the Program Updates section below.

Connecticut

The EPA has provided funding to CT DEP to establish a partnership with CONNSTEP, a non-profit organization founded to create increased efficiency and promote technology within Connecticut's manufacturing sector. The CT DEP/CONNSTEP partnership will include cross-training of CONNSTEP engineers in storm water management, hazardous waste management, and energy conservation under the Climate Wise program. CONNSTEP will then be able to increase the services that they offer their client base to include pollution prevention techniques.

DEP can also make referrals to CONNSTEP for companies that seem like good P2 candidates. For more information contact: Elise Bennett (860) 424-3022.

Some of the priority programs for the CT DEP Bureau of Waste Management hazardous waste program have included compliance assistance with elementary and secondary schools and school labs; industrial laundries; and small hazardous waste generators in the Thames River watershed. The Pesticides Division is assisting a

Middletown, CT school to become a Model for Integrated Pest Management (IPM) and works with state facilities to implement their state-required IPM management plans.

Some of the priority sectors for the Bureau of Water Management have included working with the heating, ventilation and air conditioning (HVAC) industry to reduce the use of copper pipe, a leading pollutant of rivers and streams; water utilities to reduce the use of zinc in combination with orthophosphates, as a corrosion inhibitor, and substituting phosphoric acid; and analytical labs to develop a general permit that incorporates P2 best management practices.

Some of the priority programs for the Bureau of Air Management have included expanding the definition of BACT (best available control technology) to include P2; encouraging companies to try innovative P2 technologies; source reduction of mercury; expanding the number of companies that

Contents	
Feature Article	1
Program Updates	4
Connecticut	4
Maine	5
Massachusetts	5
New Hampshire	9
New York	11
Vermont	13
EPA Region I	14
NE P2 Roundtable	15
New P2 Publications	16
Calendar	18

participate in the Pollution Prevention in Permitting

Program (P4); autobody shops; and reduction of hazardous air pollutants through MACT.

The Office of Long Island Sound Programs (OLISP) continues to work with developers--federal, state and private--to reduce stormwater runoff that eventually makes its way to the Sound.

Vermont

The Business Environmental Partnership is a voluntary business technical assistance and recognition program, recognizing two levels of accomplishment: the entry level of ENVIRONMENTAL PARTNER and the higher achievement level of ENVIRONMENTAL LEADER. Participants demonstrate achievement of six core environmental management standards and several elective standards related to P2, resource conservation and environmental compliance. Designation of ENVIRONMENTAL LEADER requires achievement of ENVIRONMENTAL PARTNER plus the development of an environmental management plan or system. The current focus of the program is with the lodging industry-Green Hotels initiative. DEC plans to expand the program to printers and vehicle service and repair shops within the next year. VT DEC hopes to use this program as an incentive for businesses to use their technical assistance services, such as on-site assessments and workshops and training.

VT DEC has published sector specific compliance/P2 manuals for printers and vehicle service. They have initiated work on wood finishing and will also be working on metal fabrication/metal finishing. All of the manuals will include comprehensive self-audit checklists.

The Vermont Environmental Assistance Partnership established a formal working relationship through an MOU to collaborate and coordinate environmental assistance efforts with the VT Manufacturing Extension Center, VT Small Business Development Center, and the Agency of Commerce and Community Development. The Agencies are currently working on joint projects, such as workshops, ISO 14000 training, and on-site compliance and P2 assistance. Through this coordination the agencies will make referrals to one another.

VT DEC is working with 13 businesses to develop an ISO 14001-based EMS. The project will assess the value of EMS to small and mid-sized manufacturers.

Massachusetts

The MA DEP Environmental Results Program (ERP) continues to make steady progress and improvement toward its goal of providing industry and business with a more flexible way to meet or exceed MA environmental standards. Facilities enrolled in the Demonstration Project completed the first year of the program and an evaluation revealed improved compliance rates. Dry cleaners and photoprocessors certified their compliance with air, water and waste standards under ERP for the first time in 1997. The ERP regulations for printers were promulgated May 1 and their certifications are due in the fall of 1998.

Under the ERP Demonstration Project, 18 participating firms were given the flexibility to make operational changes without the need for new or modified permits for one year (August 1996 through August 1997). According to the Demonstration Project evaluation, there was a dramatic improvement in compliance rates, based on a comparison of "before" and "after" inspections. The post-certification compliance rate of 78 percent is significantly better than both the pre-certification rate of 33 percent and the average industrial compliance rate of 42 percent. A substantial majority of the participating company officials interviewed agreed that the flexibility to make process changes without needing to obtain or modify DEP permits was an incentive to practice P2.

In the summer of 1997, over 2,000 dry cleaners and photoprocessors received ERP workbooks and certifications. An overwhelming majority had not been properly regulated by DEP. Only 40 percent of the estimated 488 photoprocessors subject to ERP had the proper waste water discharge permit. The certification was accompanied by a guidance workbook, which must be read in order to fill out the certification. This user friendly workbook contained performance standards that required leak checking and repair (i.e., dry cleaners) and closed-loop recovery (i.e., photoprocessors), which are themselves P2. DEP anticipates that photoprocessors will decrease silver discharges to wastewater by 99 percent while dry cleaners will reduce their perchlorethylene emissions by 43 percent. The Agency estimates that the new standard for printers will reduce VOCs by at least 50 tons per year.

A primary benefit of ERP is the conversion of difficult-to-understand regulatory language into clear standards that speak, in practical terms, to the affected industry. Results from a survey of Printers Project participants provide demonstrable proof that workbooks make a difference in environmental results. Of the respondents 53 percent stated that the workbook was a strong influence in their decision to make changes in their environmental practices. In addition, 69 percent of participants who attended a workshop also said that it influenced their decision making process. To further support the concept that compliance is enhanced when the rules are clear, the Department, with funding from EPA, has translated the ERP dry cleaner workbook into Korean to assist a significant population within the dry cleaner industry. ERP workbooks for the printers will be distributed this June. A series of workshops will be conducted this summer to explain the standards and regulations. Printers ERP certifications are due in September. This year, ERP will be expanded to include companies that discharge industrial wastewater to sewers and those firms either installing or modifying boilers.

The MA Office of Technical Assistance continues to work with regulatory agencies to incorporate assistance targeted to specific sectors. Recent initiatives focus on the auto body industry and municipal highway departments.

For the auto body sector, OTA is working on the "CRASH Course for Compliance and Pollution Prevention." This project represents an agreement between several enforcement agencies on what auto body shops should do to meet the environmental, health and safety requirements. The main components are a comprehensive compliance workbook, expected to be complete by the end of the summer, and a series of workshops to be held across the state in the fall.

The project's two primary goals are:

- ✓ help auto body facilities understand and achieve compliance with relevant environmental, health and safety requirements; and
- ✓ encourage the implementation of effective P2 and other best management practices

OTA's work with municipal highway departments stems from a small grant from U.S. EPA Region I. Both EPA and MA DEP are targeting municipal facilities for inspections. This project to assist municipal highway garages in preparation for possible inspections has

garnered support from the MA Highway Association, the New England Chapter of the American Public Works Association, and the MA Highway Department. Primarily an outreach and education effort, the project's components include:

- ✓ telephone and on-site compliance and P2 assistance;
- ✓ a workshop series this summer to give a brief overview of the most common compliance issues at highway garages and specific P2 strategies for parts cleaning, engine oil management, and general garage maintenance and operations;
- ✓ a self-assessment "quiz" for DPWs to gauge how prepared they would be for an inspection;
- ✓ presentations at several county highway association and state highway association meetings; and
- ✓ regional public works association meetings about assistance resources available to municipal highway garages.

New Hampshire

A major technical assistance effort of NH DES this year is establishing a small business environmental assistance alliance (SBEA2) between DES (i.e., NHPPP and SBTAP), UNH, EPA and the Small Business

Northeast States Pollution Prevention News

Northeast States Pollution Prevention News is published three or four times per year by NEWMOA's P2 Program, called the Northeast States Pollution Prevention Roundtable (NE P2 Roundtable). The publication is provided free to the Northeast states, EPA and other interested individuals and is supported by funds from EPA Region I and the Northeast states.

The NE P2 Roundtable would like to thank the following people for writing and producing this newsletter: Cynthia Barakatt, Pat Gittes, Terri Goldberg, Gary Gulka, Jack Healey, Judy Jakobsen, Peter Moulton, Marian Mudar, Vince Perelli, Lisa Regenstein, Mary Sherwin, Paul Walsh, and Mary Werner. Terri Goldberg managed production of the newsletter.

The NE P2 Roundtable appreciates hearing comments and suggestions on the newsletter from the readers. Write NEWMOA at the address on the back cover of the newsletter or call 617 367-8558 x 302, e-mail: NEPPR@tiac.net.

Please use the form at the back of this issue to request an address change or to add your name to the mailing list. NEWMOA appreciates your cooperation in ensuring that the mailing list is correct.

Development Center (SBDC). Other supporting organizations include the NIST Manufacturing Extension Partnership, NH WasteCap and the NH Department of Resources and Economic Development. This project involves hiring an environmental counselor to be housed at the SBDC. The counselor provides information and assistance to those businesses that may be reluctant to contact DES or EPA directly, and provides referrals to other assistance programs (e.g., WasteCap and NHPPP) as appropriate. Through this program NH DES, EPA and

SBDC will also be co-sponsoring workshops and other events for small businesses.

The NHPPP has a variety of technical assistance projects that staff are currently involved in, such as: 1) working with regulated entities that are just above/below a regulatory threshold to reduce waste and/or emissions and regulatory burden (the "Borderline" Project); 2) conducting outreach and assistance to the wood finishing industry in the form of workshops and guidance materials; 3) working with automotive service training programs at technical colleges and vocational high schools to incorporate P2 into their curriculum and improve compliance at their facilities; 4) developing a "user-friendly" P2 planning guide for small and medium size businesses; and 5) continuing work on the CLEAN-P2 (Compliance Leadership through Environmental Assessment and Negotiation-Pollution Prevention) pilot project. CLEAN-P2 provides joint, multi-media compliance inspections and P2 assessments under the protection of a signed enforcement relief package.

The SBTAP is also pursuing a number of assistance activities this year, such as: 1) continuing and expanding outreach efforts to the automotive repair and refinishing industry. This includes developing and holding workshops for auto repair related industries in health, safety and environmental issues, conducting up to 50 on-site assessment visits, and developing a "certification" type program for potentially regulated entities; 2) development of a "plain language" health, safety and environmental "How-To" manual for general spray coating operations; and 3) development of a "self-certification" workbook for commercial printers in N.H. The workbook will be based on a successful initiative conducted by MA OTA, as well as the information produced under the EPA CSI Initiative for Printing.

PROGRAM UPDATES

CONNECTICUT

CONNECTICUT DEP

Employees Pledge to Help Make DEP a Model Agency

In the most recent fiscal year DEP's P2 Work

Group sponsored teams to visit six different types of DEP facilities with the aim of making suggestions to improve the environmental quality and P2 efforts at these facilities. The DEP's downtown office in Hartford, the main workplace for the majority of the agency's approximately 900 employees, is one of the six sites toured. Opportunities to practice P2 at the office building number in the hundreds and many require individual initiative. The Office of Pollution Prevention and the DEP's Work Group decided to celebrate Earth Day 1998 by sponsoring a "Pledge to Help Make DEP a Model Agency" reception in the lobby with refreshments and a raffle for all employees who pledged to help the agency be more environmentally conscious. A record number of employees stopped by to pledge, and raffle winners received books, free camping at DEP parks and agency mugs. Teams will be assembled for the efforts that will require research and other resources, including more energy conserving door ways, water conserving plumbing and mass transit options for employees.

Hartford Neighborhood's Earth Day Celebration

Over 250 adults and children attended a celebration conference, family program and awards ceremony on Saturday, May 16. Mr. Oscar Carrillo, the new EPA Hartford Manager for the region's Urban Environmental Initiative, welcomed participants, along with Lois Hager, the DEP Director of Planning and Standards for the Waste Bureau. Neighborhood leaders, partners in the Department's Hartford Project, moderated the seven workshops. Topics included: 1) P2 in the Home (e.g., Reducing Household Chemicals, Managing Lead Paint Surfaces to Prevent Poisoning, and Energy Conservation and Recycling); 2) Reclaiming Vacant Lots for Parks and Gardens; 3) Air Pollution, Asthma and Health; and 4) Getting Help for Environmental Problems. Speakers included NESCAUM's David Brown, Hartford Assistant City Manager Linda Bayer, Northeast Utilities Staff, and DEP staff. Children participated in activities that included live animals from the Science Center, games on water conservation and city planning, and African folk tales with an Earth theme. An awards ceremony for winners of the 1998 Hartford Earth Day Poetry and Poster Contest concluded the morning, with Smokey the Bear congratulating the winners. Winners received recycled goods and a boat trip on Long Island Sound in June.

DEP P2 Lecture Series

The DEP Office of P2 sponsors monthly lectures on

P2 topics for employees and interested community and business representatives. March featured representatives from the agricultural community who talked about organic vegetable and fruit farming, community supported agriculture, and P2 in dairy farming. April's lecture featured speakers on the Blackstone River "Toxics Diet" project, including high school students active in the community effort. May's lecture topic is energy conservation.

For more information contact: Mary Sherwin, Lynn Stoddard, or Elise Bennett (860) 424-3297.

MAINE

MAINE DEP

ME DEP Tackles Tippy Tanks

The ME DEP presently spends an average of \$11,000 cleaning up the results of an oil spill or leak that comes from a home heating oil tank, the 275 gallon steel, aboveground oval-shaped containers that are distributed so widely and so thoroughly throughout the state. U.S. census data shows that 70 percent of ME's housing units are heated with oil, and the Maine Oil Dealers Association estimates that there are 250,000 heating oil tanks in Maine. However, the DEP is powerless to do anything about tanks that are clearly unstable and about to tip over or are corroded or patched and about to leak.

That is about to change. A Pilot Project, lead by Allan Ball, Director of the Bureau of Remediation and Waste Management, will begin to proactively address this issue. In the past DEP could only use the State's Groundwater Oil Clean-up Fund to clean up spills after they occur. This year the DEP proposed legislation allowing \$2 million from this fund to be spent over the next 2 years to fix substandard tanks before they tip over or leak. The bill recently passed.

Most of the selected funds (\$750,000 per year for two years) will be spent via the 11 "Community Action Programs" (CAP) that cover the state. These CAPs work with many low-income households, provide fuel assistance funds during the winter, work with the State's "Central Heating Improvement Program" (CHIP), and know the condition of the client's heating system. The funds are available only to owner-occupied houses that meet certain low-

income guidelines. The CAPs are to decide who is the most in need of an upgraded tank, and any tank upgrade must meet the new rules of the State's Oil and Solid Fuel Board, which became effective in February 1998. The most important aspects of these new rules are: all underground and "underslab" piping must be sleeved, and the oil filter on the outdoor tanks must be protected from falling ice and snow. A typical tank upgrade under this Pilot Project will consist of the removal of the old tank; the placement of a three inch thick, reinforced, concrete pad; the installation of a new tank and filter; the running of new copper line (sleeved) from the tank to the burner of the furnace; and the placement of a filter protector over the filter on the outside tank.

About one fourth of the selected funds (\$250,000 per year for two years) will be spent on selected "high risk" sites, such as islands with "sole source aquifers." The goal of the pilot project in these locations will be to bring all substandard tanks into compliance with the new rules and therefore to minimize the potential harm to the islands' drinking water supplies.

For more information contact: Peter Moulton (207) 287-8161.

MASSACHUSETTS

MASSACHUSETTS DEP

Results of Annual TURA Information Release

According to the Department of Environmental Protection's 1996 *TURA Information Release*, Massachusetts industries have reduced their reliance on toxic chemicals dramatically since the Toxics Use Reduction Act (TURA) took effect in 1990, making MA a national leader in toxic chemical use reduction and providing clear evidence that MA has made tremendous progress in P2 in a growing economy.

Under the Toxics Use Reduction Act, companies are required to annually report the types and amounts of toxic chemicals they use and the waste the chemicals generate. They are also required to develop plans for implementing toxics use reductions, and to file summaries of those reduction plans with DEP.

The 1996 *TURA Information Release* summarizes the data collected by the MA TURA Program from 530 Large Quantity Toxics Users who reported under TURA in calendar year 1996. In addition, it provides a comprehensive analysis of the 7 years of TURA information and evaluates TUR progress in MA from

1990 to 1996.

Between 1995 and 1996, the most recent reporting year, MA manufacturers reduced their chemical use by 33.2 million pounds, their waste generation by 3 million pounds, and their toxic releases by 1.6 million pounds.

Using data that has been adjusted to account for changes in production, including impacts from plant closings and openings, the report reveals dramatic improvement in MA companies. Between 1990 and 1996, MA manufacturers decreased their total chemical use by 24 percent, their waste generation by 34 percent, and their toxic releases to the environment by 73 percent.

Since the last TURA Information Release, significant work has been done to improve the quality and reliability of the information. Charts and graphs have been upgraded to be more relevant, user-friendly and understandable. A new chart recognizes the top ten facilities with the greatest reduction in by-product generation from 1995 to 1996. The Release also contains an updated analysis of the Core Group (those companies who have reported chemical use since 1990) with both reported numbers and numbers adjusted to account for changes in production. Information regarding MA TUR is available on the world wide web at <http://www.dep.state.us/bwp/dhm/turapub.htm> or contact Lynn Cain (617) 292-5711.

MA "Green Fleets Program"

Under an executive order, adopted in 1996, Governor William Weld ordered that the state annually purchase a minimum number of new alternative fuel (AF) vehicles for use in the state fleet. In response to this order, the MA DEP developed the Green Fleet program in coordination with other state and federal agencies. The program requires that the number of alternative fuel vehicles purchased or leased by the Commonwealth increase over time from 10 percent by 1997 to 75 percent by 2001. For 1998, 10 percent of the vehicles purchased or leased by the Commonwealth will be fueled by natural gas and 5 percent will be electric.

While reduction in VOC and NOX emissions are a direct result of the programs mandates, the indirect benefits are even more significant. Lack of infrastructure is the single greatest obstacle to the purchase of alternative fuel vehicles. Under the auspices of the Green Fleets program, funds are

available for MA cities and towns to offset the costs of purchasing or leasing alternative fuel vehicles. For a community willing to purchase or lease enough vehicles to commit to the equivalent of 3000 gallons of gasoline usage (8-10 vehicles), the program will reimburse the municipality for 80 percent of the vehicle cost. The value of this approach is that a commercially operated refueling station becomes economically viable at these usage levels making alternative fuels available and creating an infrastructure to support AF vehicles. The Green Fleets initiative will stimulate a market for alternative fuel vehicles while building an infrastructure to support that market. For further information contact: Paul Walsh (617) 556-1011.

Environmental Management Systems

MA DEP has received a Pollution Prevention Incentive for States (PPIS) grant to promote environmental management systems (EMS) in small to medium size businesses. This project is designed to build upon efforts of the Northeast Business Environmental Network (NBEN), who have already established models to share "best management practices." These include the concepts of EMS. DEP/NBEN will solicit 12 counselors from MA DEP and OTA.

The project will have wide ranging and significant P2 outcomes. The participating firms will commit to examining and evaluating P2/TUR options and implementing them if possible. The project will provide work plans for peer counselors that provide assistance to facilities. The project will involve EPA Region I and other interested parties in New England to develop standards and qualifications for third party auditors. Case studies will be prepared on the participating facilities, which will be presented at workshops. This program will also be used to induce other companies to participate in the program and to promote the use of EMS throughout the state. Finally, the project will use the MA web site to publicize efforts by the firms to incorporate EMS into their businesses.

For more information contact: Paul Walsh (617) 565-1011.

MASSACHUSETTS OTA

MA OTA has been working with the state's Operations Services Division to develop specifications for environmentally preferable cleaning products.

The intent of this project is to establish for the Commonwealth a procurement contract for all types of janitorial products that will be free of chemicals

P2 EXPERTS ONLINE !!

The P2 Experts database is a searchable directory of private sector P2 professionals, including consultants, business professionals, educators, and staff from environmental organizations. P2 Experts offers a quick and convenient way to locate individuals that possess industrial and process knowledge and other P2 expertise.

P2 Experts is located on EPA's Enviro\$en\$e World Wide Web Site. To become a participant or access the P2 Experts web site, contact Rob Guillemin, NEWMOA (617) 367-8558 x309 or visit the P2 Experts site at

regulated under TURA as well as free of carcinogens. This contract will be available to state agencies, municipalities, school, counties and other political subdivisions of the state. The specifications were developed early this year with input from several state agencies and an extensive public review and comment process. Bids were due at end the April and products will be going through field testing this summer. The goal is to have the contract in place by September 1998. For more information contact: Lara Sutherland or Rick Reibstein (617) 727-3260.

A New Prescription

OTA is taking the lead on a conference scheduled for October 7 called "A New Prescription: Pollution Prevention Strategies for the Health Care Industry." The conference, funded by an EPA grant, will have separate tracks for dentists' offices, laboratories (both clinical and research), and general health care facilities, such as hospitals and HMOs. Co-sponsors include the MA DEP, the MA Water Resources Authority, the Medical Academic and Scientific Community Organization, the Strategic Envirotechnology Partnership program, and the U.S. EPA Region I. This conference is intended to draw participants from all over the region. To register or to encourage health care facilities to participate contact: Scott Fortier or Lara Sutherland (617) 727-3260.

Central MA Business Network

Expanding the concept of Business Environmental Networks, OTA has been working with the MA Manufacturing Partnership and several companies in

central MA to launch a business environmental network similar to the highly successful Northeast Business Environmental Network (NBEN), which OTA helped start five years ago. Several central Massachusetts companies have shown interest and there have been two meetings so far. The companies involved have developed a list of topics they would like to discuss at future meetings. For more information contact: Rick Reibstein or Bill Griffin (617) 727-3260.

Watershed Work

OTA staff are participating in the newly reconstituted inter-agency watershed teams established under the Massachusetts Watershed Initiative. OTA staff will help to incorporate P2 and TUR concepts into the programs and projects undertaken by these teams and will target specific OTA programs in certain watersheds as deemed appropriate. Heavy emphasis will be placed on outreach and education to other team members and the public in each watershed on OTA's available services and programs.

For more information contact: Cynthia Barakatt (617) 727-3260 x666, or cynthia.barakatt@state.ma.us.

MASSACHUSETTS TURI

Cleaner Production Manual

The Massachusetts Environmental Integration Initiative, a joint project of TURI, OTA, DEP and the Massachusetts Manufacturing Partnership (MMP), held a kickoff event, "Access to Clean Manufacturing," May 13 at MMP's Manufacturing Assistance Center, Worcester. The event celebrated the Commonwealth's Third Annual Manufacturers' Week and announced the availability of web access to the Initiative's Massachusetts Cleaner Production Manual.

Funded under a grant from the National Institute of Standards and Technology, the manual offers manufacturers information about: cleaner production opportunities, including case studies; applicable environmental regulations; available resources that can help companies address their environmental issues and take advantage of best practices that address their problems; and management tools that can help competitiveness. TURI staffers Anne Berlin Blackman and Janet Clark were honored at the event by MMP for their commitment and leadership roles in the development and publication of the manual.

Originally intended to help field staff within the

partner organizations to identify cleaner production and other manufacturing efficiency improvements and to understand when it makes sense to call on partners and other resources for assistance, these organizations are now offering this manual directly to companies. This collaborative effort is currently focusing on the metals and electronics industries, sectors that occupy an important niche in the state's and world's economy. The partnership between TURI, MMP, OTA and DEP is intended to streamline services available to small and medium-sized businesses. The first sections of the manual are devoted to metal finishing. A chapter on cleaner production opportunities in the metal fabrication industry will be added this summer. Manufacturers can now access the manual through a website developed by MMP at www.mmpmfg.org/cleaner. For more information contact: Janet Clark (978) 934-3346.

TUR Planner Continuing Education

TURI's FY 1998 Continuing Education Program for Toxics Use Reduction Planners (TURPs) hosted conferences in the Metro/Boston, Southeast and Western areas of the state. This year's conference format and content were based on a survey of planners and suggestions gathered from evaluations of previous programs. The central two-day conference format was changed to three one-day mini-conferences that were presented in Boxborough, Springfield and Taunton. More than 2000 TURA and non-TURA continuing education credits were awarded.

New workshops included a full-day workshop on Design for the Environment for TUR, and half day workshops on Environmental Aspects of Electric Deregulation; Energy Efficiency and TUR; Financial Analysis: Review and Practice; and Facility Indicators of Sustainability. This year's program included a repeat of three of the most requested workshops on Best Management Practices: TUR Lessons Learned; Integrating TUR into Compliance with the Clean Air Act; and Health and Safety Issues and TUR. "It's Everywhere, It's Everywhere," a panel discussion of the environmental management system ISO 14000, was also introduced. TURI also offered planners two beginning and advanced internet training classes.

TUR Industry Specific Training

Originally the final portion of the TUR Planner Course, TURI's Industry Specific Day has developed into a valuable, self-standing day of training. Now

offered as both a mandatory part of the course, as well as a continuing education event, the Industry Specific training has been a popular and successful workshop. Organized as three concurrent sessions, these events offer TUR Planners and P2 professionals detailed opportunities and techniques to apply P2 within the targeted industrial sectors. The full day format focuses on facility, process and chemical information regarding selected industries, followed by proven P2 options.

Materials are redeveloped annually to stay up to date. In the past, TURI has offered Electronics, Surface Coating, Metal Finishing, Chemical and Polymers, and Surface Cleaning. Other topics are to be introduced in the future. The next Industry Specific training will be announced within the next two months and take place this fall.

TUR in Vocational Schools

Part of TURI's mandate is to provide training to students. To address this need, the Institute has identified vocational schools as partners. The first project was a partnership with the Minuteman Science and Technology School in Lexington in 1996. The TUR Planner Course was modified and inserted into the school's adult certification course for Environmental Technicians. The following year, TURI funded a grant to Smith Vocational and Agricultural School in Northampton. The project brought industry, public agencies, faculty, and students together to form TUR teams to develop a TUR plan for the school, encourage community involvement, and produce a TUR curriculum. TURI recently established a vocational education focus group in partnership with the Department of Education, vocational school faculty and administrators, DEP, and EPA. The group is currently establishing policy guidelines for a program to provide P2 training to as many MA vocational students as possible. These lessons will ensure a safe and healthy school, as well as prepare students with the training to recognize P2 opportunities and applications when they are in the work force. For more information contact: Steve Greska (978) 934-3294.

Acid Recycling Vendor Database

An In-Process Acid Recycling Vendor Information database was published by TURI in May. The database includes information on companies, technologies, appropriate acid use with equipment, operating conditions, flowrates, costs, and information on life

expectancy, contaminants, organics, chelating agents and other information. For more information contact: Liz Harriman (978) 934-3387.

New Cleaning Database

TURI's Surface Cleaning Laboratory focuses on replacing chlorinated and organic solvents with safer alternatives. This year, the Surface Cleaning Lab (SCL) is publishing a database of successful cleaning trials performed thus far. The Paradox database is searchable by a number of fields, including: industry (i.e., electronics), substrate type (e.g, stainless steel), contaminant, cleaning chemical manufacturer, and mechanical energy used (i.e., ultrasonics). This user-friendly interface calls up the exact Laboratory Case Number (SCL#) to access other test specifics, such as cleaning bath concentrations and temperatures.

TURI is working on converting the database to a Windows '95/Microsoft Office format (Excel or Access) followed by placement on the Lab's Home Page at <http://www.cleaning.org> later this summer. Contact Carole LeBlanc (978) 934-3249 or Jason Marshall (978) 934-3133 for further details.

For more information contact: Patricia Gittes (978) 934-3129.

NEW HAMPSHIRE

NEW HAMPSHIRE DES

EMS Project

DES's Voluntary EMS program (sometimes known as the ISO 14000 project) is proceeding. A consulting trainer was hired (QST Environmental) and training on the basics of ISO 14001 was held at DES offices on April 10. About 60 people attended, including about 45 DES staff. This training was repeated at the Pease International Tradeport on April 15 and 22, with about 12 attendees. Cooperative Agreements for participating in the project, signed by Commissioner Varney, have been sent to four companies at the Pease Tradeport. DES hopes to have six participating companies. The first training session for the participating companies to begin the process of building ISO 14001-compliant systems at these companies was on May 6 at Pease.

NH Small Business Environmental Assistance Alliance (SBEA2)

Andrea O'Brien, former NH DES employee, was hired as the NH Small Business Development Center's (SBDC) first ever environmental counselor. Andrea has spent the first few months working with DES, EPA and UNH staff to develop and deliver two training sessions for the other SBDC counselors, NIST MEP staff and other assistance providers. The training sessions have focused on subjects such as: an overview of environmental regulations; the benefits of P2 for small businesses and how to assess a company's environmental assistance needs. In addition, SBDC counselors were invited to attend the P2 conference, and several did. The final training session for the counselors will take place on May 21 and will feature "real life" case studies as presented by NH small business owners. In addition, Andrea has been working on developing some environmental screening tools for counselors to use when working one-on-one with small businesses. As the NHPPP has been focusing on assisting companies that have been referred through the regulatory process, the SBEA2 is available for companies that might not feel completely comfortable coming to DES or EPA for assistance.

Sixth Annual P2 Conference & Governor's Award for P2 Ceremony

On Monday April 13, DES, UNH and several other university and private sponsors hosted the Sixth Annual P2 Conference. The weather was perfect and the Conference was actually ahead of schedule! The Conference included a plenary session, with addresses by Governor Shaheen, Commissioner Varney, EPA Regional Administrator John DeVillars, UNH Vice President of Research Donald Sundberg, and HADCO Corporation CEO Andy Leitz. This year, Governor Shaheen and Commissioner Varney presented the 1998 NH Governor's Awards for P2 to two organizations -- Monadnock Paper Mills of Bennington, and the USPS - New Hampshire Performance Cluster. Once again, the conference was a success, with about 150 attendees, speakers, moderators, vendors, and guests. This year's conference included sessions on Environmental Self-Awareness and Self-Assessment; an entire track devoted to Compliance Through P2 Case Studies; ISO 14001 and EMS; Quality and P2; All-in-One Planning; Cents and Centsibility; and Legislative and Environmental Initiatives Update for NH.

The P2 Assessment Framework

UNH, DES and EPA co-sponsored a workshop highlighting the P2 Assessment Framework, which is designed to help identify and characterize risk-related issues in the absence of data, or when available data are inadequate. The Framework helps chemical manufacturers/users identify environmentally-preferable products, reduce or eliminate generation of hazardous wastes, reduce potential liability, and can provide significant cost savings. This free workshop ran May 11- 13, 1998, at UNH in Durham, NH.

Auto Service Workshop

NHPPP staff gave a presentation on pollution prevention for auto service facilities at the New England Road Maintenance and Repair Conference in Portsmouth, NH. For the workshop, the Program updated the NHPPP's "Pitstops" manual for auto facilities, copies of which are now available. Organized by the UNH Technology Transfer Center, the conference workshop was attended by about 40 individuals from both the public and private sectors. DES hazardous waste staff also gave presentations on used oil management and proper automotive waste management.

DES Green Team

The DES Green Team has been busy creating a 5-year action plan to guide its activities. The plan should be completed and ready for management review by early summer. The Green Team also initiated a processed chlorine-free (PCF) paper project. The Waste and Water Divisions are testing a 100 percent PCF, 100 percent recycled/75 percent post-consumer copy paper. The hope is that the pilot will be successful and eventually lead to more widespread purchase and use of PCF paper in the NH state agencies.

New Wastelines Newsletter Printer

A new vendor was awarded the bid to print four issues of the NHPPP's Wastelines newsletter. While this may not be particularly newsworthy, the printing specifications are. This year's Wastelines will be printed on 100 percent recycled/100 percent post-consumer, unbleached (PCF) paper, utilizing soy-based inks. This is another example of the positive results that can be achieved by building environmental considerations into the upfront bidding and procurement processes.

P2 Planning Guide

The NHPPP has hired a contractor to assist in development of a P2 planning guide. The intent of the guide is to give NH's small to medium-sized manufactures a tool to undertake P2 Planning efforts, despite the fact that NH does not mandate such planning. The outline for the guide has been finalized, and a draft document is currently under production.

Quarterly P2 Partnership Meeting

Vince Perelli and Dr. Ihab Farag (UNH) co-facilitated a quarterly P2 Partnership meeting hosted by the Pease Development Authority. Guest speakers included Dennis Parker of Infantine Insurance, Bill Bradley of the Business for Social Responsibility (BSR) Networks, and Debra Hall of the BSR Environment and Education Program.

For more information contact: Stephanie D'Agostino (603) 271-6398 or Vincent Perelli (603) 271-2902, perelli@deswmdpl.mv.com

NEW YORK

NEW YORK STATE DEC

As part of an agency-wide initiative begun last fall by the New York State DEC, the Pollution Prevention Unit will be focusing a portion of its outreach on automotive recycling facilities over the next year. Through a combined enhanced enforcement and educational effort being carried out across the state, it is anticipated that this initiative will encourage these facilities to review their procedures for handling and storage of automotive fluids and to implement P2 strategies to eliminate environmental contamination resulting from the mis-handling of these materials.

The Pollution Prevention Unit has already conducted four workshops for auto recyclers and is planning to conduct at least four more by October 1998. In addition, two manuals have been developed to assist in the outreach efforts that will assist auto recyclers in identifying compliance problems and opportunities for pollution prevention. These documents include a self-audit manual, entitled "Environmental Self-assessment for Vehicle Maintenance Shops," and a guidance document, "Environmental Compliance and Pollution Prevention for Vehicle Maintenance Shops," which summarizes environmental requirements and P2 strategies to address those requirements.

The Unit is working closely with EPA Region II, the Automotive Recyclers Association of NY, and the nine Regional Offices on this initiative. In at least one DEC regional office, the workshops were followed by inspections and visits by the agency's Environmental Conservation Officers to the auto recycling facilities.

Outreach

The 11th Annual Pollution Prevention Conference, "Still Making a Difference," will be held in Albany, June 17 - 19. Governor Pataki is tentatively scheduled to deliver the keynote address and present the 1998 NYS Governor's Awards for Pollution Prevention on June 17. A total of 39 applications were received this year for the P2 Awards program. In addition to the Awards Ceremony and Luncheon, the conference will feature a half-day plenary session, two facility tours, 38 case study and panel session presentations, an interactive workshop on P2 and risk reduction, and vendor exhibits and presentations. To register for the Conference contact: Dottie O'Hare (518) 457-2553.

The Pollution Prevention Unit once again used its ever-popular toy factory demonstration to teach P2 principles to elementary school children at a 3-day educational event held at one of DEC's teaching facilities. This year DEC invited the 23 classes that participated in the demonstration to enter the poster contest using the theme that NEWMOA states have selected for this year's P2 Week, "P2 in Our Neighborhoods." The Unit is planning to exhibit these posters at the P2 Conference in June and select winning posters to print and distribute for P2 Week in September.

Publications

Three new documents are now available from the Pollution Prevention Unit and a fourth, the updated "Environmental Self Audit for Small Business," will be available within the next few weeks. Copies of the following documents can be obtained by calling the Pollution Prevention Unit (518) 457-2553.

☞ "Environmental Self-Assessment for Vehicle Maintenance," March 1998, 20 pp.

This is the second in a series of industry-specific environmental self audit manuals that the Unit is developing. This one covers vehicle maintenance and repair shops, auto body shops, auto dealers, and auto recyclers and dismantlers. It provides a series of questions that can identify areas of non-compliance

and should be used in conjunction with the following document, which summarizes regulatory requirements and P2 strategies.

For more information contact: Mary Werner (518) 457-2553, mhwerner@gw.dec.state.ny.us

☞ “Environmental Compliance and Pollution Prevention Guide for Vehicle Maintenance Shops,” March 1998, 42 pp.

A companion document to the above self audit, this guidance manual provides a summary of environmental regulations that affect vehicle maintenance shops and related facilities. It also includes P2 strategies that these facilities can use to achieve or exceed compliance.

☞ “Environmental Compliance and P2 Guide for Small Quantity Generators,” March 1998, 41 pp.

This is an update and expansion of a document that was originally published over 10 years ago for the RCRA Small Quantity Generator Program. It includes multimedia regulatory requirements for small quantity generators and a section on P2. Although the original focus was on hazardous waste management, the current version helps small quantity generators with all environmental problems and describes P2 strategies to reduce or eliminate releases.

TRI Facility & State Agency Reporting

New York State's Toxic Release Inventory (TRI) 1996 Report is now available, showing a 12 percent reduction from 1995 releases and a 67 percent drop from 1988 for currently reportable chemicals. New York had 623 facilities file a total of 1,828 forms for 1996, reporting a total of 31.13 million pounds of TRI-listed chemical releases. The 1996 TRI Report is available from the P2 Unit. The Unit also coordinates the State Agency TRI program, which requires that 39 state agencies that meet specified thresholds report their releases to DEC on July 31, 1998.

PPU Staff Changes

The Pollution Prevention Unit has undergone several staffing changes. In the Program Development and Support Section, Susanne Wither has replaced Mary VanNess and Cheryl O'Brien has replaced Jack Nasca. In Project Management and Coordination, Doug Ferguson replaces Joe Iannotti and Jim Romeyn replaces Brian Surprenant. Bill Eberle, Chief of the Project Management and Coordination Section, left State service in April; that position remains unfilled.

To learn more about DEC's Pollution Prevention Unit, use the new website:
www.dec.state.ny.us/website/pollution/prevent.html.

NYS SMALL BUSINESS ASSISTANCE PROGRAM

In May of 1997, the NYS DEC adopted a new regulation, 6 NYCRR Part 232, to reduce the emissions of air contaminants from perchloroethylene (perc) drycleaning facilities. To help NYS's owners and operators of perc drycleaning establishments comply with this new state regulation, the Small Business Stationary Source Technical and Environmental Compliance Assistance Program (PROGRAM), in cooperation with DEC, EPA, and the drycleaning trade associations, is holding a series of FREE update seminars for perc drycleaners.

These nine seminars, to be held across the state in June and July, will cover the following topics:

- ✓ NYS permitting requirements and compliance dates;
- ✓ the use of vapor barriers to control perc emissions;
- ✓ leak inspections and self-monitoring requirements;
- ✓ reporting, recordkeeping, and posting requirements;
- ✓ training and certification for owners and operators; and
- ✓ how to manage perc-contaminated wastewater and hazardous waste.

The registration and schedule are as follows:

All seminars are scheduled from 7:30 PM to 10:00 PM. To register for any seminar, call the NYS Small Business Environmental Ombudsman at Empire State Development: (800) 782-8369, ext. 2. Walk-in registrations are also accepted.

Upstate Seminars

- ✓ Albany, June 9, The Desmond Hotel, Town Hall 660 Albany-Shaker Rd.
- ✓ Syracuse, June 10, DoubleTree Hotel (formerly Holiday Inn Airport) 6701 Buckley Rd.
- ✓ Buffalo, June 16, Adam's Mark Hotel (formerly Buffalo Hilton) 120 Church St.
- ✓ Rochester, June 17, Marriott Thruway Hotel, 5257 W. Henrietta Rd.

Downstate Seminars

- ✓ Staten Island, June 23, Staten Island Hotel, 1415 Richmond Ave.
- ✓ Poughkeepsie, June 24, Poughkeepsie Sheraton, 40 Civic Center Plaza
- ✓ Brooklyn, July 8, Brooklyn Union Gas, One MetroTech Center
- ✓ Queens, July 9, LaGuardia Marriott, 102-05 Ditmars Boulevard
- ✓ Long Island, July 14, Melville Marriott, 1350 Old Walt Whitman Rd.

THE NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION

The Northeast Waste Management Officials' Association (NEWMOA) is a non-profit, non-partisan interstate governmental association. The membership is composed of state environmental agency directors of the pollution prevention, hazardous and solid waste, and waste site cleanup programs in Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island and Vermont.

NEWMOA's mission is to help states articulate, promote and implement economically sound regional programs for the enhancement of environmental protection. The group fulfills this mission by providing a variety of support services that

- facilitate communication and cooperation among member states and between states and EPA, and
- promote the efficient sharing of state and federal program resources.

NEWMOA's P2 program was established in 1989 to enhance the capabilities of the state and local environmental officials in the northeast to implement effective source reduction programs. The program is called the Northeast States Pollution Prevention Roundtable (NE P2 Roundtable). This program involves the following components: (1) NE P2 Roundtable meetings and workgroups; (2) regional P2 information resource center and databases of information; (3) source reduction research and publications; (4) training sessions; and (5) regional policy coordination and development. The NE P2 Roundtable is supported by NEWMOA member states and by grants from

The workshops are sponsored by Empire State Development, the New York State Environmental Facilities Corporation, DEC, the U.S. EPA, the Neighborhood Cleaners Association International, the Korean Dry Cleaners Association of New York, and North East Fabricare Association.

For more information contact: Marian Mudar (800) 780-7227.

SUFFOLK COUNTY WATER AUTHORITY

The Pollution Prevention Program now has a tracking program for internal and external requests for information. This program was designed by Kumar

Grande, an applications specialist in SCWA's Geographic Information Systems Department, using Oracle. The tracking program is designed to also track requests made to the Policy and Planning Department and Geographic Information System Department. For the Pollution Prevention Program, it collects information on: date request was made, type of request, how request came into program (i.e.; email, telephone, letter), business SIC code, length of time to complete request, how the request was filled and whether there was follow-up performed. It also can be used to track library information, such as the name of the document and loan information.

The Pollution Prevention Program is also tying in business and industry information into the Authority's geographic information system to identify the type of businesses/industries and their proximity to well-field areas. This will be a long term project due to limited staff resources. It involves bringing into the system, via Oracle, the business name, address and SIC code. Now these businesses must be tagged to tax map parcels in the database. Once this is completed this will help the program to more effectively target outreach to protect well-field areas.

The Authority is also applying for Groundwater Guardian Affiliate status under a program offered by the Groundwater Foundation. Groundwater Guardian Affiliate is an annual designation for entities that demonstrate a shared-responsibility approach to groundwater protection with communities within their jurisdiction or geographical area. It shows that an organization cares about groundwater and has a dedicated group of employees or associates that understand the importance of working in partnership with communities on groundwater protection goals. After forming a team that includes representatives from business and agriculture, education, government and local citizen organizations, they must submit result-oriented activity forms that depict what actions they will undertake over the next year or so to protect the quality of local groundwater resources. Project categories include public awareness and education, conservation, P2, public policy, and best management practices.

Groundwater Affiliate designation earns the applicant the privilege of displaying the Groundwater Guardian Affiliate logo, a federally registered trademark restricted to those who have earned the affiliate or Groundwater Guardian Community designation. This program may be of interest to fellow P2 programs since it can help such programs receive recognition and help publicize the P2 activities they undertake at the annual National

Designation conference sponsored by the Groundwater Federation, through Federation newsletters on this program and the use of the Groundwater Guardian logo. To receive a guide that explains the program in detail, contact the Groundwater Federation (800) 858-4844.

In general, staff of the P2 Program recently completed an onsite audit at an auto body repair shop that recently moved to Suffolk County and was in the process of setting up shop. The most significant waste streams generated were rags and waste oil. The shop currently burns the waste oil to heat the shop. Program recommendations included using a rag management service that either launders the rags or incinerates them for their fuel value, minimize the use of absorbents by using rags to clean up small spills, use elevated drip pans and place absorbent pads or larger drip pans under leaky cars waiting for service.

For further information contact: Judy Jakobsen
(516) 563-0306.

VERMONT

VERMONT DEC

The VT Legislature passed significant legislation (S. 181) related to reducing mercury releases to the environment. Among the provisions of S. 181 are the following: labeling of mercury-added consumer products; a ban on the disposal of all labeled mercury-added consumer products; a requirement for municipal collection programs for mercury-added products; a public information campaign; and an advisory committee to report annually on several aspects of mercury contamination, including the extent of environmental contamination, effectiveness of mercury reduction efforts, and cost and methods for further minimizing risks from mercury exposure. It is expected that this will be a major P2 initiative of the department over the next several years.

VT DEC has completed a compliance/P2 manual for automotive service and repair. The manual contains compliance audit checklists and numerous fact sheets on various waste streams and regulatory issues that are of concern to the industry. The manual should be available in print by late June or early July.

Work is now underway jointly with NEWMOA on developing a similar guide for the wood finishing industry.

VT DEC has begun EMS training and implementation workshops for thirteen companies as part of an EMS pilot grant from EPA. Participating companies have agreed to develop and implement an EMS through the training and provide data to EPA on environmental performance improvements that result from EMS implementation. Participating facilities, ranging in size from 65 to 450 employees, have completed the first of five training sessions (starting in May and ending in October). Through this project DEC hopes to learn a great deal about the value of environmental management systems to small and mid-sized manufacturers and service sector businesses.

The VT DEC continues the implementation of its VT Business Environmental Partnership with the lodging industry. The initiative, known as Green Hotels in the Green Mountain State, currently has over 40 facilities (e.g., hotels, inns and bed and breakfast establishments) enrolled in the program and about 15 enrolled in training in May to complete the requirements for Green Hotel designation. The DEC is working in conjunction with the Small Business Development Center, which has completed over 40 on-site P2 opportunity assessments at these facilities. DEC currently has plans, as resources allow, to move the business partnership program into other sectors this year, including vehicle service and printing.

The DEC is co-sponsoring a P2 workshop on May 28, 1998 in Rutland on process water conservation and reuse for food processing and metal working/metal finishing operation. Co-sponsors include the Green Mountain Water Environment Association, VT SBDC, and the VT Manufacturing Extension Center.

On April 24, Curb Your Car Day, more than 6,000 Vermonters collectively avoided 128,527 miles of driving, 121,606 pounds of air pollutants, 5,355 gallons of gasoline, and \$44,984 in direct and associated transportation costs.

A week-long brown bag series on Sustainability was sponsored by the Agency of Natural Resources in early April. Highlights included video showings such as Affluenza and Ancient Futures: Learning from Ladakh, as well as a presentation by Monique Miller, Executive Director of Wild Earth, on reducing personal consumption. A presentation was also made on work of the Vermont Clean State Council in "greening" state government. The series was well attended by both staff in the environmental agency and other state agencies.

Staff of the Environmental Assistance Division will be making P2 presentations in May at the annual Governor's

P2TRAINER DATABASE

State and local P2 programs have a wealth of expertise designing and conducting professional training for a wide variety of audiences. The P2Trainer database is designed to capture this expertise in a single location so that everyone can share this knowledge. The purpose of the P2Trainer Database is to provide individuals conducting P2 training with access to current information on what others in the field have accomplished. This project is funded under a grant from EPA Headquarters. The NE P2 Roundtable is piloting P2Trainer in the Northeast in 1997 and is collaborating with the National P2 Roundtable Education, Training and Learning Workgroup on the design and development of this database.

The audience for P2Trainer is federal, state and local government assistance and regulatory officials involved in organizing training sessions on P2 topics. The database focuses on workshops that this audience has conducted on P2 topics for government and industry personnel, environmental groups, consultants or the general public.

A prototype of P2Trainer is located on the world wide web at <http://www.p2.org/p2trainer>. To add training sessions to P2Trainer or to review the database contact: Rob Guillemain at NEWMOA, (617) 367-8558 x309.

Prevention Conference and a conference entitled, Integrating Approaches to Health: Personal, Social, and Environmental (a conference sponsored by Congressman Bernie Sanders).

DEC has announced its sixth annual Vermont Governor's Awards for Environmental Excellence in Pollution Prevention. Applications are due in mid-August to be followed by an awards ceremony in the fall.

The Governor has made it a point to personally attend the previous five ceremonies, and DEC is hoping the trend continues.

For further information contact: Gary Gulka (802) 241-3626 or Doug Kievit-Kylar (802) 241-3628, garyg@wasteman.anr.state.vt.us.

P2 PRINT

P2PRINT is an electronic mailing list for printing professionals in the northeast interested in reducing or eliminating the use of hazardous chemicals in printing. The goal of P2PRINT is to help printers find answers to questions about environmental issues related to printing. P2PRINT subscribers include printers and other professionals who work with the industry, including assistance organizations, trade associations, industry suppliers and regulators. P2PRINT is maintained by NEWMOA under a grant from the U.S. EPA Environmental Technology Initiative. There is no charge to join P2PRINT. Anyone can subscribe by sending an e-mail message to: p2print-request@great-lakes.net. For more information contact: Lisa Regenstein, NEWMOA (617) 367-8558 x304.

EPA REGION I

Events & Projects

Region I and the Northeast Partnership for Environmental Training and Education (NEPETE) solicited community colleges to participate in a Green Campus Audit Project. Two schools have been selected to conduct comprehensive "green" audits of their campuses. The students and faculty conduct the audits as part of their course work and report to the administration, which has agreed to implement the recommendations where feasible. The schools are Gateway Community Technical college in North Haven, CT and Southern Maine Technical College in South Portland, ME. The lessons learned through this work will be applied to a future monitoring project with selected secondary vocational technical schools in the region. For more information contact: Lee MacMichael (617) 565-9230.

Region I has developed an auto repair/refinishing action plan, which will supplement EPA's water protection efforts in the Lower Charles River vicinity. Mary Dever has begun work with EPA emergency planning staff and with the Fire Departments of the Towns of Boston, Brookline, Cambridge, Somerville and Watertown to identify the universe of shops in these Towns. Plain language information packets are being created for the

shops that will outline compliance issues and P2 opportunities. For more information contact: Mary Dever (617) 565-9408.

There have been several new members to EPA Region I's Energy Star Buildings Program in the first quarter of 1998. The new members are the cities of Boston and Cambridge and the states of Massachusetts, Connecticut, and New Hampshire. The Energy Star Program provides assistance to its members on how to make energy efficiency work at their facilities. For more information contact: Norm Willard (617) 565-3702.

Region I and the New England Interstate Water Pollution Control Commission held a region-wide meeting on energy concerns at municipal water and wastewater treatment facilities. This was the first meeting for a project that will examine energy efficiency technologies as well as alternative sources of energy available to municipalities. This project is timely as many communities are facing renewal or upgrades of the facilities where energy efficiency and costs will be of concern. Audits of three to five facilities will take place this summer. For more information contact: Jack Healey (617) 565-3542.

Region I conducted a series of four workshops in February for the Chemical Industry. These focused on the responsibilities of the chemical industry under EPCRA, as well as an introduction to the Chemical Industry Audit Project and facility auditing. During May and June the Region will be holding three more workshops in Danvers, MA; Providence, RI; and Waterbury, CT. For more information contact: Linda Darveau (617) 565-4993.

Upcoming Events

Based on the huge successes of prior events, three additional CEIT Innovative Stormwater Treatment Technologies Trade Shows are being planned. The Charles River Initiative event has been set for June 4 at the Hyatt Regency Hotel in Cambridge. The New Hampshire show has been set for October 28, 1998. A Vermont/New York show will also occur sometime in October 1998. For more information contact: JoAnn Vizziello (617) 565-3261.

EPA and the MA DEP will host a Pay As You Throw Workshop (PAYT) at the DEP Office at One Winter St, Boston on June 18. Emphasis will be hands on use of computer software to help determine a rate structure for communities interested in employing PAYT. There is no cost for the day long

workshop, but space will be limited to 50 people. For more information contact: Joe DeCola (617) 565-3276.

For more information contact: Jack Healey (617) 565-3542.

NORTHEAST STATES P2 ROUNDTABLE

Mercury Action Plan

The Northeast states environmental agencies have been collaborating with their Eastern Canada counterparts on development of a regional mercury action plan. This effort has been facilitated by the New England Governors/Eastern Canadian Premiers Environmental Committee with support and assistance from NEWMOA and NESCAUM (Northeast States for Coordinated Air Use Management). The Draft Action Plan is scheduled to be discussed and ratified by the Environment Committee members in early June. For a copy of the final Mercury Action Plan, contact the NEWMOA office in June.

Recommendations for a National P2 Information Network

NEWMOA staff collaborated with the Solid and Hazardous Waste Education Center (SHWEC) and the Waste Management Resource Center (WMRC) on a recently published report, *Recommendations for a National P2 Information Network*. The report provides a vision for a national P2 information network and an estimated scope of work for network operations. The purpose of the document is to detail the experiences of the Northeast States P2 Roundtable and the Great Lakes Regional P2 Roundtable in their efforts to develop interstate and inter-regional programs and present recommendations for future efforts in this area. Copies of the report are available by contacting the NEWMOA office.

Checklist for Auto Repair Shops

In collaboration with the Northeast states, the NEWMOA staff are finalizing a "Checklist and Tips for Auto Repair Shops" that is designed to help shops comply with environmental, fire, and health and safety regulations. The checklist is designed for use by shop personnel and local officials in conducting a walk through of the shops. The Tips focus on ways that shops can reduce toxic hazards, prevent fires, and minimize health and safety hazards. Copies of the checklist should be available in June; contact the NEWMOA office to order them.

Waste Oil Brochures

In collaboration with the New England states, NEWMOA is publishing state-specific brochures on waste oil regulations and P2 tips for auto repair shops. Brochures will be available in June and can be obtained from each state. The brochures for Massachusetts, Connecticut and Rhode Island have been translated into Spanish and Portuguese. Copies of the brochures will be available from each state. Contact NEWMOA to find out how to order copies.

NEWMOA Web Site

Starting in June, NEWMOA will be developing a regional web site to assist member programs with accessing information on the Internet, sharing data, and increasing regional communications between meetings. NEWMOA staff are having discussions with state and local P2 program staff to identify their priority information needs and interests for the web site. Including this newsletter on the website is one idea that is kicking around the office. In addition, NEWMOA is considering developing a database of state P2 projects from current and past newsletters that could be accessed by either topic, geographic location or project type. NEWMOA would like to hear from readers of this newsletter with suggestions for website items. Contact Lisa Regenstein (617) 367-8558 x304 to discuss ideas.

For more information contact: Terri Goldberg (617) 367-8558 x302, NEPPR@TIAC.NET.

NEW P2 PUBLICATIONS

New Documents Available from EPA's Pollution Prevention Information Clearinghouse

Documents can be ordered through the PPIC Online Order Form or by contacting PPIC, U.S. Environmental Protection Agency (Mailcode: 7407); 401 M Street, SW (7407); Washington, DC 20460; Reference and Referral: 202-260-1023; Fax Line: 202-260-4659; E-mail Address: ppic@epa.gov. The following EPA documents and fact sheets are available at no cost.

Office of P2 & Toxics: FY 1997 Annual Report

EPA/745/R-98/003 (69pp) January 1998. The Environmental Protection Agency's Office of Pollution Prevention and Toxics (OPPT) presents this

review of activities in fiscal year 1997. The goal of this report is to share what has been learned with the public and invite active participation in OPPT's ongoing and planned programs. This document can also be obtained at <http://www.epa.gov/opptintr/ar97/>.

CTSA Booklet: Solutions for Lithographic Printers

EPA/744/F-96/009 (30pp) September 1997. This booklet condenses the information found in the full CTSA to answer printers' most immediate questions, such as: How do blanket washes affect worker health and safety? How do the different blanket washes perform? What are the environmental risks associated with each wash? This document can be obtained at <http://www.epa.gov/opptintr/dfe/lithography/pubs.htm>

Environmental Leadership Program: The ELP Framework

EPA/305/D-97/001 (8pp) October 1997. As part of the EPA ongoing efforts to improve environmental performance, encourage voluntary compliance, and build working relationships with stakeholders, EPA developed the Environmental Leadership Program (ELP). Initiated in April 1995, the one-year pilot program has been completed, and EPA plans to launch its full-scale Leadership Program in late 1997.

Environmental Leadership Program: Summary of the 1995-96 Pilots

EPA/305/S-97/004 (5pp) September 1997. Fifteen facilities representing twelve companies or organizations participated in the year-long pilot phase of EPA's Environmental Leadership Program (ELP). All of the facilities selected for the pilot showcased at least one of the characteristics EPA considered indicative of environmental leadership. Those characteristics included implementation of 1) environmental management systems, 2) environmental auditing, 3) community outreach and employee involvement programs, 4) mentoring, and 5) P2.

Pathway to Product Stewardship: Life Cycle Design as a Business Design Support Tool

EPA/742/R-97/008 (76pp) December 1997. An analysis of using environmental performance in product design. Includes case studies of business who have included life cycle design in their business practices.

Federal Agencies Participation in the Development & Use of Voluntary Standards

EPA/742/R-97/010 (32pp) September 1997. This paper

analyzes the use of voluntary standards by various federal agencies. It also describes the process by which the agencies take part in the development of voluntary standards.

ISO 1400 Resource Directory

EPA/625/R-97/003 (35pp) October 1997. This document summarizes the multitude of federal, state, international, and non-profit programs that focus on ISO 14001 or other environmental management systems.

National P2 Center for Higher Education

To order any of the following documents from NPPC, send a check payable to "University of Michigan/NPPC," National Pollution Prevention Center; 430 East University, Ann Arbor, MI 48109-1115. For a complete list of NPPC educational resources: call (734) 764-1412; fax (734) 647-5841; e-mail nppc@umich.edu; or see <http://www.umich.edu/~nppcpub/>.

Incorporation of P2 Principles into Chemical Science Education (84pp., \$13.00)

This document begins with a review of the literature on "green chemistry" and chemical science education. Next, the author proposes a methodology for chemical life cycle analyses that can be incorporated into university-level chemistry curricula. The main section is a case study in which that methodology is used to compare the environmental impacts of producing and using ethylene glycol-based antifreeze versus a similar product made of propylene glycol.

Introduction to the Marketing Compendium (\$1.00)

This document briefly discusses marketing issues related to environmental protection and recommends how to best use other materials in this compendium.

Resource List for Environmental Issues in Marketing (\$1.50)

This document cites nearly 200 articles, books, reports, and case studies as well as several related web sites, interested faculty, and case publishers.

Environmental Marketing Annotated Bibliography (\$1.50)

It describes approximately 100 of the documents appearing in the Resource List.

Course Syllabi and Assignments (\$1.50)

This includes detailed outlines of environmental marketing college courses taught by M. Cohen (Vanderbilt) and G. Kirby (Santa Clara University).

Directory of P2 In Higher Education: Faculty & Programs

This directory helps connect academics and others who want to discuss P2 concepts, ideas, and success stories. It describes activities of faculty who are integrating environmental concepts into their science, engineering, business, agriculture, and architecture courses.

NPPC is updating the Directory and publishing a fourth edition by Fall 1998. College professors, who teach some aspect of P2/sustainability, or the staff of a related organization should contact NPPC about their work. Send an address, phone number, fax, and a short description of the P2 or sustainability activity to Nancy Miller by e-mail nppc@umich.edu or fax (734) 647-5841.

NORTHEAST P2 CALENDAR

Title	Sponsor	Date/Location	Contact
Process Water Conservation	VT DEC, VT SBDC, GMWCA & VT MEP	May 28, 1998, Rutland, VT	(802) 241-3626
Innovations in Health Care Environmental Health & Safety	Tufts University, MPHA, Bristol-Myers Squibb Co.	June 1-2, 1998, Tufts Univ.	(617) 696-1966
Dry Cleaning Seminars	NYS SBAP, NYS DEC, EPA Region II	Various Dates/Locations Throughout June & July (see p. 12)	(800) 782-8369 x 2
Cleaner Technology Demonstration Sites & Matching Grants Program	Toxics Use Reduction Institute	Various June Dates/ Locations	(978) 934-3050
MIT Forum on Chemicals & Society: A New Look at Persistent Concerns	MIT Technology, Business & Environment Program	June 11-12, 1998, MIT	(617) 253-3586
Air & Waste Management Association (A&WMA) 91 st Annual Meeting & Exposition	AWMA	June 14-19, 1998, San Diego, CA	(412) 232-3444
Managing Chemical Risk, Accidental Release Planning with Clean Air Act Amendments Section 112(r)	Michigan DEQ	June 16, 1998, Lansing, MI	(517) 335-2784
Environmentally Conscious Design, Regenerative Design: The New Millennium	Rochester Institute of Technology	June 16-17, 1998, RIT	(716) 475-6091
Still Making a Difference, Pollution Prevention Conference	New York State DEC	June 17-19, 1998, Albany, NY	(518) 457-2553
Waste Prevention Pays: Businesses Cut Costs by Cutting Waste	U.S. EPA	June 17, 1998, Satellite Forum at Various Locations	(800) EPA-WISE
Pay as You Throw Workshop	U.S. EPA Region I, MA DEP	June 18, 1998, Boston, MA	(617) 565-3276
Sustainable Product Systems: Life Cycle Tools and Applications	Univ. of Michigan, Center for Professional Development	June 24-25, 1998, Ann Arbor, MI	(734) 647-7200
1998 ACEEE Summer Study on Energy Efficiency in Buildings, Energy Efficiency in a Competitive Environment	ACEEE	August 23-28, 1998, Pacific Grove, CA	(202) 429-8873
Process Water Conservation Reuse	VT ANR, Green Mt. Water, Environmental Association, VT SBDC	June 28, 1998, Rutland, VT	(802) 241-3629
New Prescription: P2 Strategies for the Health Care Industry	MA OTA, MA DEP, MWRA	October 7, 1998	(617) 727-3260
Stormwater Treatment Technologies Trade Show	U.S. EPA Region I	October 28, 1998, N H/VT	(617) 565-3261
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