

**FEATURE ARTICLE**

**Consumer P2 Efforts**

Pollution Prevention (P2) programs throughout the Northeast educate consumers about the benefits and opportunities of source reduction. These efforts have included P2 outreach to the general public, efforts to work with schools and neighborhoods, and projects that influence consumer purchasing decisions or impact consumer products. The following sections provide a sampling of those activities underway in Connecticut, Massachusetts, New York and New Hampshire.

**Connecticut**

Connecticut DEP is promoting pollution prevention for consumers in its 1998 Pollution Prevention Week program. CT DEP will be sponsoring a series of P2 community-based programs for staff and inviting other state agencies during the 1998 P2 Week activities in September. Rick Larsen of Northeast Utilities environmental staff presented "Pollution Prevention in the Home." Topics included: household hazardous waste minimization, and ways to reduce other environmental risks in your home.

The Hartford Neighborhoods Earth Week 1998 celebration last spring included workshops for households on reducing hazardous products in the home and using less energy and water. Reducing household chemical exposure was the most highly attended conference workshop of the 4 options, with approximately 80 of the 100 adults participating.

Pollution prevention outreach to school-age children was initiated in the pilot Hartford Neighborhood program in 1995-96 when DEP worked with a community service organization to introduce the concept in conjunction with other environmental stewardship concerns for urban neighborhoods. Recently the P2 Office developed a skit about reducing pollutants to Long Island Sound. P2 staff provided the

skit dialogue, props and background information. Elementary age children at a Bridgeport day camp performed the skit for their fellow camp mates. The children also played a game where they described pictures from magazines as either good or bad for the environment. Staff expanded upon or further explained the pictures. Both activities were successful, especially the skit. Staff will be further refining the activities for elementary age and older children in the upcoming school year.

The P2 Office staff recently presented information on pollution prevention at home, in the community and in the workplace to Aetna's volunteer council in the Hartford home office. CT DEP staff provided ideas and guidance for community environmental volunteer activities. The council plans to adopt a city park and may also work with a neighborhood on an environmental campaign.

The CT DEP has developed materials for consumers about source reduction, recycling and protecting the environment on a number of topics. The Office of Long Island Sound has developed materials

**Contents**

<b>Feature Article</b> . . . . .	<b>1</b>
<b>Program Updates</b> . . . . .	<b>4</b>
<b>Connecticut</b> . . . . .	<b>4</b>
<b>Maine</b> . . . . .	<b>6</b>
<b>Massachusetts</b> . . . . .	<b>6</b>
<b>New Hampshire</b> . . . . .	<b>10</b>
<b>New York</b> . . . . .	<b>12</b>
<b>Rhode Island</b> . . . . .	<b>13</b>
<b>Vermont</b> . . . . .	<b>14</b>
<b>EPA Region I</b> . . . . .	<b>15</b>
<b>NE P2 Roundtable</b> . . . . .	<b>16</b>
<b>New P2 Publications</b> . . . . .	<b>17</b>
<b>Calendar</b> . . . . .	<b>19</b>

for school age children as well as adults to encourage good environmental practices and an understanding of how pollution has impacted the Sound. Fact sheets on "Antifreeze" and "Degreasers" for consumers are available from the P2 Office and how to recycle at home, at work and at school are available from the recycling program. *A Reference Book for Disposal of Household Hazardous Waste in Connecticut* is available from the Bureau of Waste Management. The Hartford Neighborhood Environmental Project has published neighborhood environmental inventories and fact sheets on getting technical information and financing environmental projects.

## Massachusetts

MA DEP, MA OTA and TURI will once again recognize consumer P2 efforts with a P2 Poster Contest and Unsung Hero Award. Last year over 150 school children (grades 6 thru 8) from all over Massachusetts participated in a contest in which each child developed a poster depicting "How Pollution Prevention Can be Practiced by Individuals at Home, in Their Car, While Shopping, in Their Yard and at Their Workplace." The winner, Theary Phat from the Bigelow Middle School in Newton, will be recognized by DEP Commissioner David Struhs at the annual P2 celebration at the State House (September 22) and receive a brand new road bicycle donated by Walmart. Theary's poster will be designated the 1998 Massachusetts Pollution Prevention Week official poster. It will be distributed to over 2000 locations including state offices, schools and city halls throughout the Commonwealth. Next year's contest (1999) will focus on "Pollution Prevention in Our Neighborhoods" and will be announced at this year's celebration.

Another Award that focuses on consumer P2 is the "Unsung Hero Award." There are many individuals who have sparked innovative ideas for P2 and/or who have been involved with promoting and/or implementing "Innovative P2 Programs and Outreach." More often than not, the community they live in or the business they work at receive the credit for their efforts. To inspire other individuals to get involved at all levels, MA DEP is honoring a few "unsung heroes" who have made a difference. Commissioner Struhs will recognize them at the Proclamation Ceremony at the State House during P2 Week, and they will be given certificates in their local communities with local press recognition.

Unit-pricing or "pay as you throw" (PAYT) disposal programs for municipal solid waste are one of the most effective means for consumers to reduce waste,

encourage recycling and prevent pollution. By placing a price tag on the disposal of each container of trash, residents are given the financial incentive to reduce their waste through recycling, composting and source reduction. Eighty-two communities in Massachusetts currently have unit-pricing programs for disposal of municipal solid waste. Landfill closures are forcing many municipal officials to reevaluate their entire solid waste disposal system, resulting in an unprecedented level of interest in "Pay As You Throw."

Communities with unit-based pricing save money through lower disposal costs and additional recycling revenues. They also gain control over their waste management budgets and provide secure funding sources for additional programs, such as recycling and composting. Since residents pay directly for the quantity of their garbage and refuse, they have a strong financial incentive to throw away less while recycling and composting more.

MA DEP employs a variety of tools to promote and leverage unit-pricing in the Commonwealth. DEP's Municipal Recycling Grant Program offers PAYT grants to municipalities in the form of custom-printed trash bags or stickers for new unit-pricing programs. In addition to grants, PAYT municipalities are eligible for various exemptions for recycling requirements and matching grants. Finally, DEP has been conducting a major outreach program including workshops across the state, video-conferences, individualized technical assistance and the distribution of guidance material to all cities and towns.

The Office of Technical Assistance is helping Massachusetts to become one of the first states in the nation to develop an "environmentally preferable purchasing contract" for cleaning and janitorial products purchased by state agencies. MA OTA, DEP and TURI worked with the state's Operational Services Division – and several other agencies – 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 regulated under the Toxics Use Reduction Act as well as free of carcinogens. This contract will be available to state agencies, municipalities, schools, 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

received at the end of April, and several products – including carpet cleaners, general purpose cleaners, floor cleaners, bathroom cleaners, disinfectants, toilet bowl cleaners, degreasers, hand soap, glass cleaners, and a stainless steel cleaner – from six different vendors were field tested at various state facilities this summer. The contract is expected to be in place by October. OTA will disseminate information to all interested parties about the contract development process and how to go about finding alternative products.

In addition, OTA continues to provide assistance upon request to consumers, homeowners, and communities on issues related to reducing the generation of household hazardous waste. In 1997, OTA produced a series of fact sheets on source reduction strategies for “do-it-yourselfers” who change motor oil and do other car repairs, and other fact sheets on reducing paint waste during home improvement projects. These fact sheets are distributed at appropriate outreach events and by request.

MA TURI has been sponsoring a number of consumer initiatives through its Toxics Use Reduction Networking (TURN) Grants program established in 1995 to promote community awareness and municipal integration of pollution prevention strategies. Projects have focused on topics such as pesticides, cleaning solvents, alternatives for printing and dry-cleaning, and toxics used in schools.

One of this year’s TURN Grant projects focused on raising consumer awareness about toxics in household products. The project partnered with the Town of Lexington Health Department, which recently opened the state’s first hazardous household products collection center, a regional facility that will eventually serve as many as 23 communities. Through a TURN grant from TURI, the Health Department partnered with TURA reporting facilities to create case studies of their toxics use reduction efforts to be used as models for the community’s smaller businesses and residents. The TURN project also focused on raising consumer awareness about reducing toxics in the waste stream through informational programs and materials, including installation of a permanent pollution prevention display at the new collection center.

TURI houses the largest collection of P2 and TUR publications in the Northeast. Open to the public, TURI’s library and clearinghouse has a growing collection of consumer-oriented material and has been working with libraries throughout Massachusetts to develop a user-friendly TUR/P2 website.

## New Hampshire

The NHPPP has developed a fact sheet specifically with the consumer in mind. P2 for Consumers, as well as many other fact sheets, can be accessed on the DES’s web site at <http://www.state.nh.us/des>.

In an effort to instill P2 concepts in the next generation of consumers, NHPPP staff have worked intermittently with students and faculty in K-12, technical college, and undergraduate programs. This outreach, which is varied and tailored to the educational levels of the students (or the degree of P2 knowledge of the faculty), covers such topics as process flow diagrams, life cycle analysis, material substitution, purchasing habits and materials use as they relate to consumer products.

Some specific examples of consumer P2 training include: (1) the development of, and training for, the PitStops Automotive Curriculum; (2) speaking engagements as part of Earth Day events; (3) The University of New Hampshire P2 Intern Training

### ***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, John Bearley, Pat Gittes, Terri Goldberg, Rob Guillemain, Gary Gulka, Jack Healey, James McCaughy, Peter Moulton, Vince Perelli, Jeff Potent, 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 ext. 302, e-mail: [NEPPR@tiac.net](mailto: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.

sessions; and (4) select training opportunities at various teacher workshops around the state. All training uses hands-on exercises, brainstorming sessions, as well as lecture.

## **New York**

The NYS DEC Pollution Prevention Unit participates in agency-wide events to educate the general public on environmental issues. Around Earth Day, DEC holds an Environmental Fair at one of its education centers and invites elementary school classes to participate in demonstrations and other activities. Approximately 500 students from area schools participate over the three-day event. Conducted in 30-minute intervals, the Unit teaches P2 principles and concepts using a Toy Factory demonstration and a picture board to involve the students in discussions. The demonstration always gets top reviews from the students.

Another major event that the Pollution Prevention Unit (PPU) regularly participates in is the State Fair that is held every August in Syracuse. These PPU staff set up a display and are on hand for several shifts throughout the Fair. In the past, PPU used the Toy Factory demonstration; however, this year they focused on the poster contest. Fair goers were also able to design or make buttons with environmental or P2 themes.

In addition to the above opportunities, the poster contest is being made available through several other venues. It is posted on the NYS DEC website. The Agency is receiving entries from their environmental education centers of posters that were made during activities carried out there during the summer programs. Four posters that were done by the children of PPU staff (who are ineligible to enter the contest) were used along with P2 tips in a one-page P2 Week article that was published in the agency's *NYS Conservationist* last month. PPU plans to select winning posters for a P2 Week ceremony in the DEC central office lobby. PPU staff also plan to design a 1999 P2 Calendar featuring the top 12 entries of posters submitted by teenagers (not eligible to enter the contest).

PPU staff will set up a display at the annual Fall Festival held at a DEC environmental education center, which will focus on simple ways people can prevent pollution in their homes and communities. An example of a "Pollution Prevention Lunch" will be featured in the display.

Finally, publications for the general public include articles in the *NYS Conservationist* and "tip strips" on the Northeast States Joint P2 Week Proclamation (see page 5), the NYS Governor's Proclamation, and P2 Tips for the Home.

## **PROGRAM UPDATES**

### **CONNECTICUT**

#### **CONNECTICUT DEP**

##### **Alternative Fuel Vehicle Display**

Visitors to Bushnell Park in Hartford on Tuesday, September 22 from 11 a.m. to 2:00 p.m. will see displays and vehicles that use fuels other than gasoline. Exhibits will include: natural gas cars, trucks, vans, and delivery vehicles; electric cars and trucks; propane-powered vehicles; alternative fuel go-carts and commuter vehicles. There will also be information on how to travel without a car using bikes, buses and vanpools.

##### **Tour of Businesses with Successful P2 Programs**

Arranged by the Connecticut Business and Industry Association (CBIA) a tour of Sikorsky Aircraft in Stratford will be held during P2 Week on Wednesday, September 23. Sikorsky has implemented P2 technology in every media.

##### **Lecture Series**

The DEP Office of Pollution Prevention sponsors monthly lectures on P2 topics for employees and interested community and business representatives. May featured a panel of experts on electric utility deregulation, alternative energy sources and energy conservation measures. June featured Rob Robbins, environmental manager of the US Postal Service (USPS) Northeast Area, speaking on how the USPS decreased hazardous waste generation in its vehicle maintenance facilities and became nationally recognized for its P2 program. He also discussed what people could do when they work on their own vehicle to help prevent pollution and save money. In July, the P2 lecture featured Jack Kozuchowski, a Local Emergency Planning Coordinator for Danbury who discussed an educational network for LEPC's using the Internet. The system described helps LEPC's incorporate pollution prevention into their duties.

**“Pollution Prevention in Our Neighborhoods”  
Pollution Prevention Week Resolution, 1998**

The people of Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont appreciate the region's unique natural beauty and support a clean and safe environment. Today, more businesses, neighborhoods, individuals, households and governments are turning to pollution prevention to achieve a clean environment and a healthy economy.

Pollution prevention is a common sense approach that makes use of our limited resources in an efficient manner by stopping pollution before it starts. It is the most environmentally sound method of reducing energy consumption, conserving our natural resources and protecting future generations from the adverse health and environmental effects of pollution. Pollution prevention comes before recycling – eliminating and reducing waste before it is created.

Everyone can practice pollution prevention. Businesses, citizen organizations, households and state and local government can work together to solve complex environmental problems by applying pollution prevention practices and technologies. For our businesses, preventing pollution can mean eliminating or reducing the use of toxic chemicals before they enter our environment.

For our rural and suburban communities, it can mean protecting critical wildlife habitat, open space and farmland by carefully guiding public investments to prevent harmful sprawl. For our urban communities, it can mean increasing green space for community gardens, pocket parks, urban agriculture and street trees, as well as reducing traffic.

For our households, it can mean conserving energy by using energy efficient appliances; preventing the generation of hazardous waste by using less toxic household cleaning, maintenance and yard products; reducing the volume of garbage we produce by bringing fewer over-packaged goods into our homes; and reducing air pollution by car-pooling, using public transportation, biking and walking.

Pollution Prevention Week is an opportunity for government to join forces with businesses, environmental groups, community organizations and the citizenry at large to work toward a cleaner and healthier environment and a prosperous and sustainable future.

If we all focus on pollution prevention, we can improve the health and well-being of our neighborhoods and citizens, and maintain our region as a great place to live and work.

Recognizing the power of prevention, the Northeast States' Environmental Commissioners and Secretaries and EPA Region I and II Administrators join together to celebrate “Pollution Prevention in Our Neighborhoods” and proclaim September 21 - 27, 1998 as Pollution Prevention Week.

Arthur J. Rocque, Jr., Commissioner  
State of Connecticut  
Department of Environmental Protection

Edward O. Sullivan, Commissioner  
State of Maine  
Department of Environmental Protection

Trudy Coxé, Secretary  
State of Massachusetts  
Executive Office of Environmental Affairs

David Struhs, Commissioner  
State of Massachusetts  
Department of Environmental Protection

Robert W. Varney, Commissioner  
State of New Hampshire  
Department of Environmental Services

John P. Cahill, Commissioner  
State of New York  
Department of Environmental Conservation

Andrew H. McLeod, Director  
State of Rhode Island  
Department of Environmental Management

John Kassel, Secretary  
State of Vermont  
Agency of Natural Resources

Canute Dalmasse, Commissioner  
State of Vermont  
Department of Environmental Conservation

John P. DeVillars, Regional Administrator  
U.S. Environmental Protection Agency  
Region I - New England

Jeanne Fox, Regional Administrator  
U.S. Environmental Protection Agency  
Region II

## PPIS 1998-1999

CT DEP is working with ConnSTEP to develop pollution prevention technical assistance to manufacturers as a component of the manufacturing extension group's outreach program. Small businesses are being surveyed about their P2 assistance needs. ConnSTEP staff will be trained in environmental regulation and pollution prevention assessment. Technical assistance to manufacturers under this program will commence in January 1999.

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

## MAINE

### MAINE DEP

The Maine Department of Environmental Protection recently hired Katie Zeeman, Ph.D., a toxicologist from the U S Fish and Wildlife Service. Before her five year stint with the federal government in New Jersey, she was a state government employee in Maine's Bureau of Health from 1989 to 1993.

Katie has tackled a number of projects since her arrival in May. These include developing exposure and clean-up guidelines for remediation projects to better protect human health and the environment. Presently these guidelines will concentrate on arsenic, mercury, and total petroleum hydrocarbons. If you want to talk trout, terns, or toxicology, call Katie Zeeman, (207) 287-7822.

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

## MASSACHUSETTS

### MASSACHUSETTS DEP

#### **P2 Training at MA DEP**

MA DEP, in collaboration with the Toxics Use Reduction (TURI) and NEWMOA, has developed a set of curricula for training state environmental agency personnel to incorporate pollution prevention and innovative technology into permitting, regulatory and policy development, and compliance enforcement activities. The program is designed so that it can be easily used by other state regulatory agencies. The project was funded under the U.S. EPA Environmental Technology Initiative.

The training curriculum focuses on reducing barriers that are experienced by environmental regulatory agency staff in promoting P2 (including recognizing innovative P2 technologies) via their job function. There are two major components of the project: (1) providing a solid foundation in basic cross-media, regulatory, and pollution prevention information and concepts; and (2) enhancing or reinforcing skills and knowledge to help environmental professionals meet new challenges.

The training program consists of 12 courses under 5 tiers. Virtually the entire staff at the Bureau of Waste Prevention (BWP) has been cross-trained in the regulatory programs that have not been their specialty. Multi-media team working skills have also been taught to selected BWP personnel. Inspectors have been given P2 training in four industry sector processes: surface coating, metal finishing, dry cleaning and photoprocessing. Internet training has been offered to enhance participant's job related skills by providing an understanding of the capability of the Internet as a valuable resource for identifying and researching innovative environmental technologies and databases. Finally, workshops have been developed and given to train decision makers and inspectors on the integration of P2 into enforcement, policy development and regulations.

All of the courses have been offered to DEP staff at least once. Some of the courses will be reoffered to DEP staff and other state and EPA participants by October of 1998. Free instructor guides will be available either on disk or through the Internet this fall. For further information, contact Paul Walsh (617) 556-1011.

#### **Reforms Within The TURA Program**

In an effort to continuously improve the Toxic Use Reduction Program (TURA), and in response to suggestions by the Toxic Use Reduction Planners and TURA reporters, the TURA agencies have implemented several reforms and program improvements. The changes were proposed in order to improve and streamline the planning and reporting requirements of the Toxic Use Reduction Act. None of the changes require alterations to the enabling statute.

In response to suggestions and recommendations from TURA filers and planners, reporting and planning requirements have been streamlined to reduce the costs of TURA to its filers and to the agencies managing the programs. Certification requirements for Toxic Use Reduction Planners have been modified to allow planners to gain valuable TUR education credits using

less time while encouraging a keener focus on toxic use reduction. In addition the program is assisting TURA facilities and planners by issuing user friendly tools such as a Plan Update Worksheet that can be used to identify which sections of their Toxic Use Reduction Plan need to be revised. Finally, the TURA program is sending a customized report to each of the reporting facilities outlining all of the data that each facility had reported to the program since its inception.

The redesign of the TURA program also includes the establishment of a process to encourage firms wishing to try Alternative Planning Exercises that may lead to more Toxics Use Reduction. The program redesign also explores reductions in fees for firms with no further Toxics Use Reduction options. The redesigned program will provide incentives for firms that eliminate the use of "High Hazard Chemicals" or use only "Low Hazard Chemicals" as defined by the Science Advisory Board.

### **DEP Encourages Recycling of CRTs**

On July 1, 1999, MA DEP intends to prohibit the disposal of cathode ray tubes (CRTs) from television and computer monitors at all Massachusetts landfills and combustion facilities. Prior to implementing this disposal ban, the agency will specifically exempt intact CRTs from the existing requirements that they be handled as hazardous waste. These regulatory changes will be accompanied by aggressive DEP initiatives to promote the collection and recycling of discarded CRTs.

CRTs and other obsolete electronics account for a significant and rapidly increasing share of the solid waste generated in Massachusetts. From current estimates of 75,000 to 90,000 tons per year, the volume of this waste is expected to reach as much as 300,000 tons annually by 2005 as those electronic components now in use give way to such emerging technologies as flat panel screens, high definition television (HDTV) and digital video disc (DVD) players.

The primary reasons for DEP's new regulatory actions are:

- To reduce the potential health risk resulting from the combustion of these items and to address the contamination of incinerator ash from lead-containing CRTs, which prevents the ash's beneficial reuse in asphalt and other products.
- To promote the recycling and reuse of lead, and leaded glass contained in the CRT

This action supports DEP's goal of diverting 46 percent of the state's waste from disposal to recycling by no later than the turn of the century.

Unfortunately, existing federal requirements discourage Massachusetts companies from entering the CRT recycling business. Under the current rules, companies that want to accept discarded CRTs for recycling are required to undergo a time-consuming and costly permitting process, carry special insurance, and comply with an elaborate set of hazardous waste regulatory standards. These requirements, in total, add significant cost to CRT management, thereby discouraging companies from getting into the recycling business and consumers and businesses from recycling such wastes

DEP has been successful in encouraging recycling by banning the disposal of other household wastes. Lead acid batteries were prohibited in 1991; followed by leaves, used tires and white goods (large home appliances in 1992); glass and metal container, other yard wastes in 1993; and many grades of paper and plastic containers in 1995. The effectiveness of these disposal bans and accompanying efforts to expand the state recycling infrastructure explain why Massachusetts has increased the proportion of waste it uses or reuses from 10 percent in 1990 to 33 percent today. DEP believes that a similar ban on the disposal of CRTs will stimulate an increase in recycling and a decrease in waste.

**For more information contact:** Paul Walsh (617) 556-1011.

## **MASSACHUSETTS OTA**

### **ONE PLAN Project**

With funding from a grant from the EPA, OTA will oversee the development of two model "One Plans" by Massachusetts companies. EPA has been advocating the integration of emergency plans into one comprehensive plan, as required by several federal and state regulations. The comprehensive plan will meet all of the various requirements and incorporate pollution prevention strategies as a means for reducing risks and preventing accidents. Through a competitive process, OTA selected two companies (Eastern Etching and Manufacturing of Chicopee and Franklin Paint Co. of Franklin) who will receive subsidized contractor services to develop integrated emergency plans. These plans will subsequently be used as models to demonstrate for other companies how emergency plans

should be used to actually reduce risk, and should not be considered just a paperwork exercise. An RFR for the contractor to work with the companies in developing the model plans has been issued. The contractor will be selected and should begin work on the plans this fall.

### **Governor's Award and P2 Week**

OTA is working with DEP and TURI to coordinate a P2 Week celebration that will include presentation of the annual Governor's Award for Outstanding Achievement in Toxics Use Reduction. In addition to presentation of the awards, the ceremony this year will feature acknowledgment of the Governor's Proclamation of Pollution Prevention Week, and presentations to the winners of the P2 Week Poster Contest from middle schools across the state. The three agencies plus the EPA Region I office will have displays about pollution prevention at the State House during the week.

### **Research Assistance for Companies**

OTA's technical staff is involved in two ongoing research projects that may be of interest to other technical assistance providers.

After seeing a presentation on a plasma technology, OTA's Northeast Team began examining the potential for using plasma gas as a replacement for nitric acid in the stainless steel passivation process, which would resolve an issue for a company with whom the team is working. While the research is not conclusive at this time, it looks promising, and could have applications for many companies across the state. The developer of the plasma gas technology, Lab Medical Engineering & Manufacturing of North Billerica, was selected as a 1998 TURI Demonstration Site company.

OTA's Northeast and Central teams are collaborating on efforts to assist companies who currently use solvent-based primers on cedar shingles used in house siding. A Pittsburgh-based coating manufacturer is presently fine-tuning a new coating for wood shingles that can be cured with ultraviolet light technology. OTA staff is following this technology development closely in an effort to help wood coaters who need to reduce their VOC emissions resulting from the use of conventional primers. At one company in particular, a DEP order to reduce emissions has forced the company to scale back its operations, affecting its productivity and overall business. The UV-cured coating would not only eliminate VOC emissions, but also provide instant curing of the shingles, shaving 24 hours off of the production process. The company now operating at reduced capacity to comply with air

emissions would more than likely be able to expand its business once the new coating is available. At least four such wood coating firms in the state stand to benefit greatly from this new technology.

### **CRASH Course Workshops**

Workshops are scheduled to begin in October for the auto body repair industry as part of the "Collision Repair Auto Shop Help (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 environmental, health and safety requirements. The comprehensive compliance workbook is nearing completion, and the workshops will be used to introduce the workbook and highlight how P2 can be used to address compliance issues. The point of the workbook is that inspectors will look more favorably on a shop that uses the workbook to show that it is observing the compliance basics. Representatives of the MA DEP, the Attorney General's office, the Division of Occupational Safety and the EPA Region I will participate in the workshops to answer questions about compliance and enforcement issues.

### **Software Success**

In February and March, OTA embarked on a targeted outreach campaign to let companies know about two software programs OTA staff developed: the first, called "RUNVOC," is used for calculating VOC content in coatings; the second, called "Records" is simply a customized spreadsheet for tracking chemical use for record keeping and compliance purposes. An analysis of the 43 site visits made during the second quarter of 1998 (April-June) shows that more than 20 percent of the site visit requests were a direct result of the targeted outreach campaign. The largest percentage of site visit requests (30 percent) was the result of referrals from regulatory agencies.

**For more information contact:** Cynthia Barakatt  
(617) 727-3260 ext. 666, or  
cynthia.barakatt@state.ma.us.

## **MASSACHUSETTS TURI**

### **Sustainable Technologies Research**

Since 1993, the Toxics Use Reduction Institute (TURI) has sponsored a wide range of research projects on new technologies and materials. With the objective of making that research immediately applicable to Massachusetts businesses, the Institute developed research partnerships with more than 33



firms through its Cleaner Technologies Demonstration Sites and Matching Grants Program. In addition, TURI sponsors more basic research through its Research Fellows and new University Research in Sustainable Technologies program begun in 1997. The University Research program is a joint project of TURI and the Center for Environmentally Appropriate Materials (CEAM) at UMass Lowell, with support from the Commonwealth's Strategic Envirotechnology Partnership (STEP) program. The University Research program taps the research capabilities of the University of Massachusetts to advance the investigation, development and evaluation of sustainable technologies that are environmentally, occupationally and economically sound. The program provides research funding to faculty from all UMass campuses, annually, on a competitive basis and encourages faculty/industry partnerships and cross-campus collaboration.

For FY99, grants totaling \$170,000 have been awarded for research projects at the Lowell, Boston and Amherst campuses. The following is a list of the eight projects on three campuses:

**Lowell campus:** (1) Alternatives to PVC in Medical Applications: Flexible Polyolefins for IV and Blood Bags, Dept. of Plastics Engineering; (2) Diffusion Dialysis and Acid Recovery in Metal Working and Finishing, Dept. of Chemical and Nuclear Engineering; (3) Enzymatic Synthesis of Non-Formaldehyde Phenolic Polymers: Control of Hydrogen Peroxide Concentration, Dept. of Chemistry; (4) Build Up of Vias Using Additive Technology in Printed Wiring Board Fabrication, Dept. of Mechanical Engineering; (5) Toxics Use Reduction in the Plastics Industry: Alternatives to Heavy Metal Additives, Dept. of Plastics Engineering; (6) Ultrasonic-Assisted De-inking System for Mixed Office Waste Papers, Dept. of Chemical and Nuclear Engineering.

**Amherst campus:** (7) Development of a Building Commissioning Model for Energy and Resource Efficiency for University of Massachusetts Buildings, Dept. of Mechanical and Industrial Engineering.

**Boston campus:** (8) Green Chemistry: Solubility Characterization of Molecular Self Assemblies, Dept. of Chemistry.

For more information, contact Liz Harriman (978) 934-3387.

### **Summer InTURN Program**

This summer, five Massachusetts companies benefitted from the knowledge, skills and energy of five UMass Lowell College of Engineering students while

providing the opportunity for the students to gain valuable industry experience. For the third year, TURI sponsored a summer InTURNship program by selecting qualified candidates, providing a three-day intensive course in toxics use reduction and paying one month's salary. The following are the 1998 summer InTURNships:

**L. E. Mason Co. of Boston** sponsored a senior in chemical engineering to implement methods for reducing L. E. Mason's use and disposal of machining fluids.

**M/A-Com, a Division of AMP Inc., Lowell** provided an opportunity for a chemical engineering master's candidate to continue the work of last year's interns to convert M/A-Com's solvent coating processes to powder coating.

**Astra USA, Inc. of Westborough** hired a chemical engineer to develop an electronic chemical tracking system to aid in data collection for environmental reporting.

**Walbar Metals of Peabody** sponsored a chemical engineering master's candidate to evaluate options for bath life extension of mixed acids used to strip coatings.

**The Butcher Company of Marlborough** provided an opportunity for a chemical engineering senior to aid in data collection for state and federal environmental reporting requirements.

For more information, contact Karen Thomas (978) 934-3143.

### **Process Control & Efficiency '98: Reducing Processing Costs**

TURI is serving as associate sponsor of the Boston Branch-American Electroplaters and Surface Finishers Society Conference on October 29 at the Wyndham Gardens Hotel in Waltham, MA. The full-day conference will provide a forum for plating shop owners, supervisors and managers to learn about the latest developments in process control and efficient processes that reduce processing costs via lower materials cost, reduced usage, reduced waste and improved quality, according to TURI research associate Chris Ford, president of AESF's Boston Branch. Also serving as associate sponsors are the Massachusetts Manufacturing Partnership (MMP), OTA and EPA Region I.

The technical program will include topics on: electroless nickel processing, including efficient chemical use; statistical process control (SPC);

software for quality and materials accounting; aluminum processing, including non-cyanide preplate preparation and cleaning/anodizing bath life extension; racking and filtration/agitation technology; compliance information for wastewater and hazardous waste; and more.

Vendor Tables will showcase Massachusetts, New England and national vendors of cleaner technologies including: Acid Life Extension, Cleaners, Water Recycling, Wastewater Treatment, Evaporative Recovery, Metals Recovery, Plating Processes.

The conference will also be an opportunity for networking with peers, technical assistance providers, vendors and consultants. For registration information, contact Cindy Z. Norris (978) 374-1274.

### **TUR Planner Continuing Education**

The following TUR Planner continuing education opportunities are scheduled in October.

**October 6, Toxics Use Reduction Planner Continuing Education One-day Conference and Industry Specific training**, Sheraton Springfield Monarch Place, Springfield, MA. Certified planners can earn continuing education credits that may be used to apply to MA DEP for recertification.

**Toxics Use Reduction Planner Training Course #31**, Taunton Holiday Inn. Dates to be scheduled in February/March 1999.

For continuing education information, contact Anne Basanese (978) 934-3144.

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

## ***NEW HAMPSHIRE***

### **NEW HAMPSHIRE DES**

#### **Environmental Management System Pilot Project**

NH DES's Voluntary EMS program (sometimes known as the ISO 14000 project) continues. The consultant, QST Environmental, has conducted half of the scheduled EMS implementation workshops. The participating firms are scheduled to complete a ranking of all their environmental aspects and impacts for the next workshop on September 22, 1998. This step of the process has taken longer than anticipated, but since ranking environmental impacts is absolutely central to a quality environmental management system, the Agency has given them some extra time to help ensure quality.

As of August 1998, four firms at the Pease International Tradeport are participating. All four firms have signed Cooperative Agreements with DES that describe their participation in the project. Recruitment of more firms has begun; NH DES plans to begin a second set of workshops in the Fall of 1998. For more information, contact Robert Minicucci (603) 271-2941 or e-mail [r\\_minicucci@des.state.nh.us](mailto:r_minicucci@des.state.nh.us).

### **Seventh Annual P2 Conference**

Planning is well under way for the Seventh Annual NH Pollution Prevention Conference, which will take place at the New England Center, Durham, NH on Monday April 5, 1999. The NH Governor's Pollution Prevention Award will be presented as part of the Plenary Session. Planned topics for the 1999 Conference include: (1) P2 Planning in NH; (2) Saving \$ Through Energy Efficiency; (3) Greening the Supply Chain; (4) Environmental Management Systems - Developing Environmental Aspects; (5) Water Conservation Case Studies; (6) Energy Efficiency Assistance Resources; (7) Garnering Top Management Support; (8) Inventory Management Systems; and (9) Showcase of Governor's Award Winners.

### **P2 Internship Program**

The NH P2 Internship Program, established by the University of NH and the NH Pollution Prevention Program in 1994 under an EPA PPIS grant, recently closed out its fifth Summer with final P2 Internship presentations. As in previous years, all the students did a fantastic job of presenting the results of their P2 Internships. The Summer 1998 program was once again a great success, with 13 students and 8 organizations participating. To date, 60 students have been placed at almost 40 organizations for substantial cumulative cost savings for the internship sponsors. The P2 Internship Program continues to be a real star in NH, and planning for the 1999 session will begin shortly.

### **Green Team Update**

The DES Green Team has been busy creating a two year action plan to guide its activities. The plan is currently being reviewed by the NH DES Senior Management Team. The Green Team also initiated a process chlorine-free (PCF) paper project. The Waste and Water Divisions conducted a pilot test of a 100 percent PCF, 100 percent recycled/75 percent post-consumer copy paper. The pilot was a complete success, with fewer photocopier jams as an added bonus. It is hoped that these positive results and a good working relationship with state procurement staff

will eventually lead to more widespread purchase and use of PCF paper in the NH state agencies.

Since April 1998, over one ton of cafeteria/food waste has been composted on-site by the Green Team members and other DES staff volunteers. During June 1998, DES/HHS acquired a recycling dumpster for corrugated cardboard boxes. As a result of composting and cardboard recycling, DES/HHS now use only one solid waste dumpster and one cardboard recycling dumpster in place of two solid waste dumpsters with a savings of over \$100 each month.

### **New P2 Planning Guide Nearing Completion**

A new, user-friendly guide, *Planning for Profits: A Guide to Pollution Prevention Planning for NH Businesses*, being developed by the NHPPP can help companies do just that. By preventing pollution at the source, rather than managing the pollution after it has been created, companies can cut chemical purchase and disposal costs, improve production efficiency, reduce compliance headaches, and improve the bottom line.

Unlike many states, NH does not mandate planning activities for P2 or toxics use reduction. However, the lack of legislation in NH does not take away from the many benefits of P2 planning. The NHPPP recognizes the importance of putting into place, at each and every company, an "infrastructure for success," including top management support, cross-functional, self-managing prevention teams, employee involvement and incentive programs, and waste and cost tracking systems. The Guide will help facilities with these key P2 program features, and more!

The P2 Planning Guide takes companies step-by-step through the P2 planning process. Included in the Guide are useful approaches and tools to help identify, evaluate, and implement ways to reduce waste and improve operations. Many companies have seen bottom line improvements while reducing their impact on the environment using P2 strategies. The NHPPP is currently finalizing the guide. It will be ready for distribution in the Fall 1998.

### **Woodcoaters Workshops**

The NHPPP is offering two workshops for woodcoaters. All wood coating shops, as well as wood furniture manufacturers, wood craftspeople and others associated with wood working, would benefit from the information presented at the conferences. EPA and state officials, consultants and vendors will present the latest information on regulations, technologies and best management techniques that provide a safe, legal and profitable workplace.

The first workshop will be held in Littleton, NH on September 15 at the Continental 93. This half-day workshop will focus on the issues that affect small to medium sized businesses – NH small quantity generator requirements, occupational safety, and P2 and compliance assistance resources available to businesses. The second workshop will be held in Manchester, NH on September 22 at the Highlander Inn. This full-day event will offer all the topics from the half-day workshop, plus additional sessions on P2 techniques and technologies, and keynote speaker Hisham Kanaan, president of C.E. Bradley Laboratories, Inc.

### **Wood Coating Manual for NH**

NH DES, NEWMOA and EPA Region I have been collaborating on the development of a multi-media compliance and pollution prevention manual for wood furniture manufacturers in New Hampshire. The manual includes checklists and other easy to follow guidance for smaller firms on compliance and P2 for air, water and waste requirements.

### **NHPPP's Homepage**

Through the creative assistance of Caitlin Callaghan, UNH Pollution Prevention Summer intern, the NHPPP's first Internet home page is nearing completion. The site, which the NHPPP plans to bring on line for P2 Week, is currently designed to offer the following features:

- General information about P2;
- P2 tips, such as how to establish a P2 Team or Employee Incentive Program;
- Detailed information about NHPPP services;
- On-site assessment and information search forms, as well as contact information for NHPPP staff;
- An NHPPP Calendar of Events;
- Quick links to various homepages;
- P2 Internship Program information;
- On-line publications such as Wastelines, the new P2 Planning Guide, and various P2-related fact sheets;

The new NHPPP homepage will be located at <http://www.state.nh.us/des/nhppp>. Once they are open for business, check out the site and e-mail them with any suggestions.

## **P2 Week**

For the second year in a row, NH will be participating in the National Pollution Prevention Week celebration. NH Governor Jeanne Shaheen has once again signed a proclamation officially recognizing the third week of September as NH P2 Week. In addition, NH DES Commissioner Robert Varney co-signed the Regional P2 Week Resolution, along with the other Environmental Agency Commissioners/Secretaries and the EPA Region I and II Administrators (see page 5). Additional planned P2 Week activities include: (1) P2 outreach to DES staff (i.e., e-mail P2 Week Tips, brown bag lunches, and new fact sheet on reducing office waste paper); (2) a P2 Week message on State pay checks (10,000 employees); (3) announcement of new P2 Planning Guide for Business; (4) release of new NHPPP Internet web site; (5) two woodcoaters workshops; and (6) development of a NH P2 Week homepage at <http://www.state.nh.us/des/p2week.htm>.

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

## **NEW YORK**

### **NEW YORK STATE DEC**

#### **P2 Conference**

Overall attendance at this year's conference was 282, which included 59 speakers and 17 exhibitors. There were 14 case study and panel sessions this year on such topics as vehicle maintenance and auto recycling, ISO 14000, mercury, non-point sources, and comparative risk. P2 Award winners from last year gave presentations on their winning projects. There were two facility tours and a training workshop for state agencies on environmental regulations. A keynote address on how recent legal decisions have promoted P2 was presented by Michael Gerrard who is an attorney with Arnold & Porter, a NYC law firm. NYS DEC has decided to move the conference to Rochester next year and has set the dates for June 15 - 17, 1999.

#### **P2 Awards**

Five companies received the NYS Governor's Awards for Pollution Prevention at an awards ceremony on June 18, 1998. DEC Commissioner Cahill presented engraved plaques and congratulatory letters from Governor Pataki to representatives from the following companies. (Success Stories are being developed for distribution by the Unit.)

**Alox Corporation** located in Niagara Falls and employing 51 people is a worldwide marketer of corrosion inhibitors, rust preventatives, aerosol products and industrial coatings. Their project involved the recycling of approximately 280,000 pounds per year of methanol during the production of an intermediate product. Raw material savings amount to approximately \$31,000 per year, and it was estimated that \$40,000 per year was saved by reducing wastewater disposal fees.

**ITT Automotive-Fluid Handling Systems** employs 162 people at their plant in the Town of Gates. Using purchased aluminum tubing, the plant fabricates parts for automotive air conditioning and condenser units. The project consisted of the elimination of 1,1,1-trichloroethane by switching to an aqueous wash system. In addition, the facility eliminated an acid wash process and associated treated wastewater. This project resulted in annual savings of \$645,649.

**ITT Fluid Technology Corporation** employs 1090 people at their Seneca Falls plant, which manufactures pumps for municipal water supply, chemical, petroleum and pulp and paper industries. This facility has been in operation for 156 years and is the largest manufacturer of pumps in the world. ITT installed an automated three-stage stainless steel parts cleaner and steam cleaner. They also switched to a low VOC paint, and the paint-application equipment was changed to a high-volume, low-pressure system. In addition, the Seneca Falls operation reduced the number of paints they used on their products, reducing the waste paint generation by 7,100 pounds in 1998. This project has the potential to save more than \$100,000 annually by reducing the quantity of paint purchased and the need to dispose of the excess.

**Lockheed Martin Ocean, Radar & Sensor Systems**, located in Syracuse and employing 2100 people, is a supplier of airborne and ground-based radars, surface ship and sonar systems as well as marine traffic management devices for commercial and military applications. The traditional solder process they had used was replaced with a no-clean solder process where the cleaning steps were eliminated, thus increasing productivity by reducing cycle time for assembly. Cycle time was reduced 12 percent, which equated to \$270,000 savings in labor costs in 1996 and 1997. It is projected that complete implementation of this process will result in \$806,000 savings in labor costs in 1998. This process is easily transferable to other manufacturers with soldering operations.

**Oneida Limited/Oneida Silversmiths Division** is located in Sherrill and employs 2400 people. It is a manufacturer of stainless steel and silver plated silverware. Their project consisted of the replacement of trichloroethylene vapor degreasers with aqueous washes. Trichloroethylene emissions were reduced 268,000 pounds over a six-year period, or approximately 93 percent.

### **Networking**

The Pollution Prevention Unit is working with other New York State environmental assistance providers on developing a network to assist in the sharing of information and working together. A mission statement is being developed for the network and various members of the network planning group are working on a New York service providers directory as well as topic areas including education/training, policy, and sustainability. For more information on the network, contact Anne Dillenbeck, now with the Long Island Forum for Technology in Farmingdale (516) 755-3321.

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

### **INDUSTRIAL TECHNOLOGY ASSISTANCE CORPORATION**

#### **“Wa\$teMatch” Materials Exchange Program**

New York City manufacturers now have a way to recover, reduce or eliminate costs associated with waste disposal through NY Wa\$teMatch – an exchange program for industrial materials operated by the Industrial Technology Assistance Corporation (ITAC) with funding from the NYC Department of Sanitation.

NY Wa\$teMatch helps companies save money by matching their supply of discarded industrial materials, such as wood, plastic, textiles or glass, with other companies that use these by-products as “raw” materials. The company providing the materials will save on the cost of disposal and, depending on the value of the materials, may make some money on the transaction. The receiving company will save on their usual raw material cost – a win/win situation. In addition, companies donating their unwanted materials to non-profit organizations, schools or institutions can benefit from tax deductions.

Business from all five boroughs of New York City can call NY Wa\$teMatch to list materials they have available or to find out if another company has something they could use. There is no cost or obligation

to list materials available or wanted. The listings are maintained in a database system designed by the City University of New York. For small transactions, services are provided free of charge. For larger, more extensive transactions, there is a sliding scale fee.

This service is now offered as part of the ITAC Environmental and Energy Services Group, which also includes industrial pollution prevention, water, and energy efficiency services.

**For more information contact:** Ivan Braun or Jeff Potent (212) 240-6920, [wstmatch@itac.org](mailto:wstmatch@itac.org).

## ***Rhode Island***

### **NARRAGANSETT BAY COMMISSION**

#### **Common Sense Initiative**

In December of 1994, U.S. EPA Administrator Carol Browner established the Common Sense Initiative – challenging industry and government environmental agencies to work together to develop “Cleaner, Cheaper, and Smarter” ways of achieving a clean environment while enhancing economic growth. In answer to this challenge the Narragansett Bay Commission (NBC), with the aid of two EPA grant awards and in cooperation with EPA Region I, RI DEM, Save the Bay, and the Rhode Island Contract Electroplaters, has developed two programs designed to test new flexible regulatory procedures: NBC Metal Finishing 2000 and CLEAN P2 Regulatory Relief.

#### **Metal Finishing 2000**

The NBC Metal Finishing 2000 Program will reward top environmental performing metal finishing companies with regulatory flexibility. Participating companies will operate and expand their production processes with limited NBC regulatory oversight, wastewater discharge permits will be made flexible with respect to growth and expansion of company operations, and regulatory inspections and reporting requirements will be minimized.

By rewarding these “best of the best” metal finishing companies for their environmental achievements, NBC hopes to see: increased use of innovative environmental practices, a strengthening of Rhode Island’s economy through a more competitive metal finishing industry, more metal finishing companies striving for this superior level of environmental performance, and a cleaner environment

## **CLEAN P2 Regulatory Relief Program**

NBC's CLEAN P2 Regulatory Relief Program, available to all industrial users within the NBC servicing district, focuses on companies that have not yet met their full environmental capabilities. This initiative will allow NBC to expand upon and fully utilize its enforcement discretion in order to encourage these companies to achieve higher levels of environmental performance, leading them into the "best of the best" category..

Participating companies will be able to correct environmental problems using cost effective common sense pollution prevention approaches without the threat of fines and enforcement proceedings during critical initial start up periods. Expected results include: more companies utilizing common sense pollution prevention solutions to solve waste management problems, improved less costly industrial operations, and a cleaner environment.

NBC believes that by establishing partnerships with industry, the Commission can successfully identify and utilize new regulatory approaches that foster innovative environmental practices and strengthen the economy. Informational workshops on these initiatives are being held on September 29, 1998 from 8:00 a.m. to 10:00 a.m. and 4:00 p.m. to 6:00 p.m. at 235 Promenade Street, Suite 500 in Providence.

**For more information contact:** James McCaughey, the NBC Pollution Prevention Program Manager, (401) 222-6680.

## **VERMONT**

### **VERMONT DEC**

#### **Annual Governor's Awards**

In October, the sixth annual Governor's Awards for Environmental Excellence in Pollution Prevention will be held at the State House in Montpelier. In addition to the categories of small and large business, individual, non-profit, and public agency, the Governor will recognize an exemplary pollution prevention planning facility and the hotels, motels, and inns that have achieved Green Hotel status in the Vermont Business Environmental Partnership.

#### **New Compliance Guide for Vehicle Service & Repair Technicians**

In October and early November, the Environmental Assistance Division will be sponsoring eight breakfast

### **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 U.S. EPA.

seminars around the state with vehicle service and repair shops to introduce and review the Division's new compliance guide for vehicle service and repair technicians. On September 24 the Division will be presenting a similar workshop for municipal garages at the Vermont League of Cities and Towns Annual Town Fair. Additional outreach to municipal highway garages is being planned with the NEAT Team for the spring of 1999.

#### **Wood Finishing Compliance/P2 Guide**

The Division is currently working with NEWMOA to adapt its wood finishing compliance/P2 guide. A small stakeholder group of Vermont wood finishers will review the draft guide and its usefulness.

## **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 Guillemin at NEWMOA (617) 367-8558 ext. 309.

## **Green Hotels Program**

Vermont's Green Hotels Program has currently enlisted 13 hotels that have met the Green Hotel Standards. They are currently working with 30 other lodging establishments that are in the process of achieving standards. A part-time program administrator has been hired to assist with the enlistment process and program marketing. This program is being run in conjunction with the Vermont Small Business Development Center.

## **EMS Pilot Project**

The Division is continuing its work in the EPA environmental management systems pilot project. Twelve facilities are developing an EMS through design and implementation workshops. To date, four sessions have been held, with a target date of completion in the late fall.

## **Mercury Product Labeling Statute**

Vermont continues to work on implementation of its mercury product labeling statute. Draft rules have been proposed with a public hearing on the proposed rules scheduled for October. A Mercury Advisory Committee has formed and will develop a report to the Legislature in January 1999.

**For further information contact:** Gary Gulka (802) 241-3626, [gary.gulka@state.vt.us](mailto:gary.gulka@state.vt.us).

## **EPA REGION I**

### **Climate Change Action Plan Winners**

NH DES and Maine Center for Environmental Technology were winners in the solid waste Climate Change Action Plan national competition. NH will receive \$53,300 to work with the hospitality industry to reduce green house gases through solid waste reduction, and Maine will receive \$71,000 to work with businesses through the WasteCap program and to create a building managers challenge program to promote recycling. Additionally, as part of a national project, the Institute for Local Self Reliance will work with a Massachusetts community to achieve solid waste reductions above 50 percent.

### **Energy Efficiency for Wastewater Treatment Facilities**

EPA Region I and the New England Interstate Water Pollution Control Commission have begun a project that will examine energy efficiency technologies for wastewater treatment facilities as well as some alternative energy sources. The project will be piloting a model efficiency plan at several treatment facilities this summer and early fall. The results from the project will be presented at various municipal conferences as well as operator training workshops. It appears that many of the ideas will be transferable to other municipal facilities. For more information, contact Jack Healey (617) 565-3542.

### **Workshop for Municipal Highway Personnel**

EPA Region I and the MA OTA held four workshops across Massachusetts for municipal highway personnel. The workshops were well attended and covered topics such as oil management, alternative parts cleaners, floor drains and Best Management Practices. EPA intends to move this project into other states in the upcoming year. For more information, contact Jack Healey (617) 565-3542.



## Publications and Materials

The final copy of the "Household End-of-Life Electronic Equipment-Pilot Collection Report" is now available. For a copy contact Christine Beling (617) 565-3241.

EPA Region I has developed and distributed a resource/informational packet for vocational/technical schools. This packet included a Region I organizational chart and materials on various topics, such as, library resources, chemical purchases and donations, chemical storage, hazardous waste regulations, and environmental management systems. A case study of EH & S issues in the Burlington, MA school system is also included. For a copy, contact Lee Macmichael (617) 565-9230.

Region I has just printed a new newsletter, called "Details," for the auto service industry. This first edition highlights requirements, regulations and BMPs related to automotive A/C work and proper techniques for retrofitting procedures when switching a/e systems from Freon J to alternative non-ozone depleting refrigerants. For a copy of the newsletter, contact Mary Dever (617) 565-9408.

## Upcoming Events

Region 1 will be hosting a Wood Coating Technology Fair for the wood coating industry on November 18, 1998 at the Royal Plaza Hotel and Trade Center in Marlborough, MA. The workshop will showcase a variety of alternative coatings and equipment. For more information, contact Abby Swaine (617) 565-4523.

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

## **NORTHEAST STATES P2 ROUNDTABLE**

### **P2 Progress**

The NE P2 Roundtable has been working on developing a report on pollution prevention activities and accomplishments for the past two years. This effort recently culminated in the publication of a report, *Pollution Prevention Progress in the Northeast* that documents the numerous P2 efforts in the Northeast from 1990 - 1996. This first-of-its-kind report presents the results of an extensive survey of 16 state and local government pollution prevention programs. The questionnaire requested quantitative data on program

## **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 ext.304.

activities as well as reductions in emissions, wastes and costs at firms in the region.

The report found that state and local government programs have helped thousands of companies throughout the Northeast save millions of dollars and reduce pollution. This was accomplished by the participating programs with approximately one percent of the state environmental expenditures. In Massachusetts alone, the net savings reported by companies was more than \$11 million. Copies of the report can be obtained by contacting NEWMOA at the number below.

### **Revised Financial Assessment Training Manual**

NEWMOA recently revised and updated its popular, *Improving Your Competitive Position: Strategic and Financial Assessment of Pollution Prevention Projects, Training Manual*. The Association prepared this third edition for an advanced two-day financial assessment workshop that was held in September. Copies of the manual can be ordered by contacting NEWMOA at the number below.

### **P2 Week 1998**

The Northeast State Environmental Commissioners and Secretaries and EPA Regions I and II Regional Administrators joined together in signing a Pollution Prevention Week 1998 Resolution that was drafted by the state P2 Programs. This year the Northeast states



joined together under a theme of "Pollution Prevention in Our Neighborhoods" to emphasize that everyone can practice P2.

State and local programs organized a number of P2 Week events this year. These are described throughout this newsletter. They collaborated on this joint resolution to show the high level of support and interest by the environmental agencies in pollution prevention.

**For more information contact:** Terri Goldberg (617) 367-8558 ext. 302.

## **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) 260-4656; E-mail Address: [ppic@epa.gov](mailto:ppic@epa.gov). The following EPA documents and fact sheets are available at no cost.

#### **EnviroSense: Common Sense Solutions to Environmental Problems**

EPA/335/F-97/001 (brochure) January 1998. This brochure describes EnviroSense and the many resources available through the EnviroSense web site. Web Site: <http://es.epa.gov/>

#### **Partners for the Environment: A Catalogue of the Agency's Partnership Programs**

EPA/100/B-97/003 (102pp) Spring 1998. This catalogue provides short descriptions of voluntary partnership efforts between EPA and a variety of groups, including businesses, citizen groups, state and local government, universities, and trade associations. These programs demonstrate that voluntary goals and commitments can achieve environmental results in a timely and cost-effective way. Web Site: <http://www.epa.gov/partners/>

#### **Design for the Environment Computer Display Project Fact Sheet**

EPA/744/F-98/005 (2pp) June 1998. This fact sheet describes the goals of the Design for the Environment (DfE) Computer Display Project, who is participating in the project, and the life-cycle assessment (LCA) and Cleaner Technologies Substitutes Assessment (CTSA) approach being used to evaluate the environmental

impact of computer displays (cathode ray tube and liquid crystal.) Web Site: <http://www.epa.gov/dfe/>

#### **Design for the Environment Garment and Textile Care Program Fact Sheet**

EPA/744/F-93/004 (2pp) arch 1998. This updated fact sheet gives background information on the Design for the Environment program's Garment & Textile Care Project.

#### **The Presidential Green Chemistry Challenge Awards Program: Summary of 1997 Award Entries and Recipients**

EPA/744/S-97/001 (45pp) April 1988. Provides a collection of summaries of the entries received for the 1997 Presidential Green Chemistry Challenge Awards. Also highlights the five green chemistry technologies selected to receive the 1997 Awards. Web Site: <http://www.epa.gov/docs/gcc>

#### **Design for the Environment Printed Wiring Board Project Fact Sheet**

EPA/744/F-98/006 (2pp) June 1998. This fact sheet describes the two goals of the Design for the Environment (DfE) Printed Wiring Board Project, summarizes the technical, communication, and implementation work completed for the "making holes conductive" project, and outlines the current work on alternative surface finishes. Web Site: <http://www.epa.gov/dfe/>

#### **Inside Flexo: A Cleaner Run for the Money**

EPA/744/V-98/001 (19 min) June 1998. "Inside Flexo" is a pollution prevention video for flexographic printers. It uses an entertaining, TV news magazine-style format to share with printers pollution prevention tips that can improve the efficiency, lower the costs, and improve the environmental performance of their shops. Included are interviews with experienced printers who share their tips for success.

#### **Environmentally Preferable Purchasing Quick Reference Fact Sheet**

EPA/742/F-98/001 (2pp) April 1998. A listing of the EPP program's objectives, background information, projects underway and accomplishments. Web Site: <http://www.epa.gov/opptintr/epp/>

#### **City of Santa Monica's Environmental Purchasing: A Case Study**

EPA/742/R-98/001 (27pp) March 1998. This case study provides an in-depth look at the steps Santa Monica took to achieve its success in evaluating,

purchasing, and using alternative products and services. Santa Monica's pragmatic, flexible approach and the lessons learned from the city's purchasing efforts are helpful guides for agencies and organizations seeking to meet environmental purchasing goals. Web Site: <http://www.epa.gov/opptintr/epp/>

**Pilot Project Approach on Use of Non-Governmental Entities to Implement Section 503 of Executive Order 12873 on Federal Acquisition, Recycling and Waste Prevention**

EPA/742/B-98/003 (10pp) April 1998. This publication was written to share a pilot project approach with the public to demonstrate how executive agencies should use non-governmental entities to help the agencies achieve the Administration's mandate to have the federal government purchase environmentally preferable products and services. Web Site: <http://www.epa.gov/opptintr/epp/>

**ISO 14000: International Environmental Management Systems: EPA Standards Network Fact Sheet**

EPA/625/F-97/004 (6pp) March 1998. This updated fact sheet describes the EPA's Voluntary Standards Network and EPA's interests in promoting improved environmental management practices through the development of the ISO 14000 standards.

**Role of National Standards Bodies and Key Stakeholder Groups in the ISO/TC 207 Environmental Management Systems Standards Development Activity**

EPA/742/R-97/011 (35pp) September 1997. A key initiative of the Voluntary Standards Network has been participation in the efforts of the International Organization for Standardization (ISO) Technical Committee 207 (ISO/TC 207), the committee charged with developing a series of standards on environmental management and related tools known as the ISO 14000 series. The EPA is interested in understanding how other governments, national standards bodies, and key stakeholder groups have participated in the development of these international standards, as well as how these standards are used in other countries.

**Environmental Management Systems Voluntary Project Evaluation Guidance**

EPA/742/B-98/002 (36pp) February 1998. The intent of this document is to provide a framework for the collection of information of value to regulatory agencies and others interested in determining the impact in several key areas of EMS based on ISO 14001.

## NORTHEAST STATES P2 CALENDAR

Title	Sponsor	Date/Location	Contact
Massachusetts Annual P2 Celebration and Governor Awards	MA TURI, MA OTA, MA DEP	September 22, 1998 Boston, MA	(978) 934-3275
Alternative Fuel Vehicle Display and Exhibits	CT DEP	September 22, 1998 Hartford, CT	(860) 424-3297
Woodcoaters P2 Workshop	New Hampshire P2 Program	September 22, 1998 Manchester, NH	(603) 271-2902
Assessment and Management of Hazardous and Toxic Chemicals	Harvard School of Public Health	September 23-25, 1998 Boston, MA	(617) 432-1171
Compliance Guidance Seminar for Municipal Garages	VT DEC	September 24, 1998	(802) 241-3626
Flexible Regulatory Procedures for Industry: Information Workshops	Narragansett Bay Commission	September 29, 1998 Providence, RI	(401) 222-6680
AESF/Merrimack Chapter Annual Meeting	Merrimack Chapter of AESF	October 1, 1998 Portsmouth, NH	(617) 565-4993
Toxic Use Reduction Planner Continuing Education Opportunity	TURI	October 6, 1998 Springfield, MA	(978) 934-3144
A New Prescription: P2 Strategies for the Health Care Industry	MA OTA, MA DEP, MWRA, EPA Region I, MASCO	October 7, 1998 Tyngsboro, MA	(617) 727-3260
Clean Air Compliance for Consumer Products (national satellite broadcast)	EPA and Univ. of Tenn.	October 15, 1998 2-4 p.m. EDT Various Locations	(615) 532-4922 <a href="http://www.cis.utk.edu/teleconf.htm">www.cis.utk.edu/teleconf.htm</a>
Microscale Workshop for Elementary School Teachers	National Microscale Chemistry Center	October 15-16, 1998 North Andover, MA	(978) 837-5137
Introduction to P2 Technology Analysis Template	EPA, Stone and Webster, Army Corps of Engineers	October 21, 1998 Boston, MA	(617) 589-5383
Stormwater Treatment Technologies Trade Show	U.S. EPA Region I	October 28, 1998 N H/VT	(617) 565-3261
The Impacts of Pollution Prevention on Industrial Wastewater	New England Water Environmental Association	October 28, 1998, Lowell, MA	(508) 658-4048
Process Control and Efficiency: Technical Conference for Metal Finishers	AESF, TURI, MMP, OTA, EPA	October 29, 1998 Waltham, MA	(978) 934-3142
Microscale AP High School/Community College Workshops	National Microscale Chemistry Center	Oct. 30 - Nov. 1, 1998 North Andover, MA	(978) 837-5137
Southeast Regional Workshop on Education for Sustainability	Second Nature	November 6-8 Perryville, AR	(617) 292-7771 or <a href="http://www.2nature.org">www.2nature.org</a>
Microscale Workshop for High School Teachers	National Microscale Chemistry Center	November 13-15, 1998 North Andover, MA	(978) 837-5137
Compliance Assurance Monitoring: Title V Permitting Programs Workshop Series	Air & Waste Management Association	November 16-17, 1998 Scottsdale, AZ	(412) 232-3444 <a href="http://www.awma.org">www.awma.org</a>
Metrics for Managing Products, Projects and Resources	The Management Roundtable	November 16-19, 1998 Chicago, IL	(800) 338-2223
Wood Coating Technology Fair	EPA Region I	November 18, 1998 Marlborough, MA	(617) 565-4523
1998 Waste Minimization/P2 Conference	U.S. EPA Region 5	December 14-16 1998 Chicago, IL	(800) 844-9049

## NEWMOA'S P2 PUBLICATIONS

- **NEW!!** *A First Place Finish: An Environmental Guide for New Hampshire Wood Finishers*, 1998, \$15 (free to New Hampshire businesses).
- **NEW!!** *Pollution Prevention Progress in the Northeast States*, 1998, \$20 (free to NEWMOA member states).
- **NEW!!** *Improving Your Competitive Position: Strategic and Financial Assessment of Pollution Prevention Investments, Training Manual*, 3<sup>rd</sup> Edition, 1998, \$15 (\$7.50 for nonprofit & government agencies).
- **NEW!!** *Waste Oil Regulations: A Quick Guide for Auto Repair Shops*, 1998 (free).
- **NEW!!** *A Checklist for Auto-Repair Shops* (A self-audit tool for regulatory compliance), 1998 (free).
- *Northeast States & Eastern Canadian Provinces Mercury Study, A Framework for Action*, 1998, \$50 (free to NEWMOA member states).
- *Pollution Prevention in Metal Painting & Coating Operations, A Manual for Technical Assistance Providers*, 1998, \$30 (\$15 for non-profit & government agencies).
- *Pollution Prevention in the Primary Metals Industry, A Manual for Technical Assistance Providers*, 1998, \$10 (\$5 for non-profit & government agencies).
- *Recommendations for a National P2 Information Network*, 1998, \$15 (\$7.50 for non-profit & government agencies).
- *Wood Furniture: The Clean Air Act & Pollution Prevention Opportunities*, 1997, \$40 (\$20 for non-profits & government agencies).
- *Pollution Prevention for the Metal Finishing Industry: A Guide for Technical Assistance Programs*, 1997, \$30.
- *Pollution Prevention for the Printing Industry: A Guide Technical Assistance Programs*, 1997, \$30.
- *Guide to Accessing Pollution Prevention Information Electronically*, 1997, \$15.00 (\$7.50 for non-profits & government agencies).
- *High Solid Topcoats and HVLP Spray Guns: Ethan Allen Case Study*, 1997, \$2.00.
- *Ultraviolet Radiation Cured Coatings & Aqueous-Based Coatings*, 1997, \$2.00.
- *Achieving Pollution Prevention in the Printed Wire Board Manufacturing Industry*, 1997, \$5.00.
- *A P2 & Lending Case: National Chromium Company, Renewed Profitability Through Pollution Prevention*, 1996, \$2.00.
- *A P2 & Lending Case: Hubbardton Forge, Immediate Environmental & Efficiency Returns*, 1996, \$2.00.
- *P2 & Lending Report*, 1996, \$2.50.
- *Survey on Integration of P2 into State Regulatory Activities*, 1996, Free.
- *Northeast States P2 Roundtable: A Directory of Participating Programs*, 1998, \$10 (\$5 for nonprofit & government agencies).
- *Guide to Energy and Environmental Assistance Programs in New England*, 1996, Free.
- *Pollution Prevention and Profitability, A Primer for Lenders*, 1996, Free.
- *Financing Pollution Prevention Investments, A Guide for Small and Medium-Sized Businesses*, 1995, Free.
- *Improving Your Competitive Position: Strategic and Financial Assessment of Pollution Prevention Projects, Instructors' Guide*, 1994, \$30 (\$15 for nonprofit & government agencies).
- *P2 Successes, A Compendium of Case Studies from the Northeast States*, 1993, \$30 (\$15 for nonprofit & government agencies).
- *Northeast States Pollution Prevention Roundtable Training Handbook*, 1993, \$80 (\$40 for nonprofit & government agencies).

For more information on ordering NEWMOA documents, call Lois Makina, (617) 367-8558 X300. Prepayment required. Add \$2.00 for postage and handling to each order.



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