

**FEATURE ARTICLE**

***Performance Partnership Grants in the Northeast States***

This year EPA and the states are making a major effort to develop new and innovative state block grant agreements, called Performance Partnership Agreements and Grants (PPAs and PPGs). PPAs establish the focus and priorities for the PPGs. A number of the state P2 Programs have been involved in negotiating performance partnership agreements (PPAs). Discussions at recent Northeast States P2 Roundtable have focused on ideas for integrating P2 into the state PPGs. At the September NE P2 Roundtable meeting the states will continue these discussions. The following sections provide some detailed examples of PPAs that the NE states are negotiating with EPA.

**Connecticut**

In its FY 1997 Performance Partnership grant application to the EPA, the Department has proposed to undertake an aggressive effort to lead the state's P2 activities by example and help DEP become a model P2 agency. Along with expanding P2 technical assistance and education programs for all sectors of the community, this initiative also entails incorporating P2 into all DEP programs and the daily work of all DEP employees.

Three critical areas will be addressed through this project to transform DEP into a model P2 agency: increase P2 awareness in DEP staff agency-wide; lead the state's P2 efforts by taking steps toward becoming a model P2 agency; and develop a format for P2 self-assessment for use by state and local agencies.

**New Hampshire**

NHDES submitted a draft Performance Partnership Agreement to EPA Region I in August. The draft

Agreement covers all of the Department's areas of responsibility (air, water, waste) and will serve as the basis for negotiations on the work plans for federal grant programs in Fiscal Year 1997. The target is to complete the negotiations and have an executed Agreement in place by October 1, 1996. P2 is incorporated into each of the three major program areas, and the Agreement continues and strengthens the Department's focus on integrating P2 into regulatory activities.

**New York**

NYS DEC and EPA Region II have produced a PPA, which breaks down DEC's Water program into basic and community-based efforts, that is expected to be signed by Commissioner Zagata and Administrator Fox shortly. This document takes the place of work plans for the following individual grants: Clean Water Act sections 104(b)(3), 106, 319(h), 604(b), and the Long Island Sound, harbor estuary, Great Lakes and State Revolving Fund. The outputs required for these grants are the indicators and measures that appear in the agreement. The document consists of a self assessment of the

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strengths and improvement opportunities of New York's program and a strategy to achieve measurable improvements in New York's environment.

### **Rhode Island**

RI DEM is working closely with EPA Region I to lay the groundwork for full participation in the National Performance Partnership Program. The P2, solid and hazardous waste management programs are piloting the new partnership relationship with EPA. The two agencies are currently finalizing their Performance Partnership Agreement for FY 1997. This agreement will formalize the participation of the Pollution Prevention Program (Office of Technical and Customer Assistance) and the waste programs in the partnership. Other RI DEM programs are currently involved in joint planning with EPA; the agency anticipates that all RI DEM programs will join the effort currently being piloted by the Pollution Prevention/Waste Programs next year.

### **Vermont**

Pollution prevention activities are currently being integrated into a Performance Partnership Agreement that also includes the water programs in Vermont. Other programs, such as waste and air programs, are not covered in the agreement for FY 1997. Besides P2 technical assistance activities for businesses, the agreement will also include efforts and activities to integrate P2 into permitting, compliance inspections and rule making activities, as well as environmental compliance assistance program startup. The DEC is currently working with EPA to finalize P2 indicators that will be utilized.

## **NORTHEAST STATES P2 ROUNDTABLE UPDATE**

### **New Publications**

The NE P2 Roundtable has prepared several new publications in the last few months. In August, the group published a Directory of its membership entitled *Northeast States Pollution Prevention Roundtable: Directory of Participating Programs*. Copies are available for a small fee from NEWMOA.

The NE P2 Roundtable has also recently completed a paper, "Results of the Survey on Integration of P2 into State Regulatory Agencies," that summarizes the status of integration of P2 into regulatory programs in the

Northeast. Copies of this short paper are also available by contacting the NEWMOA Office.

Finally, NEWMOA's P2 Program is currently finalizing an in-depth manual on metal finishing entitled, *Pollution Prevention for the Metal Finishing Industry, A Basic Reference for Pollution Prevention Technical Assistance Providers*. The purpose of this Manual is to enable environmental assistance staff to rely on a single publication to jump start their research on P2 for metal finishers with whom they are working. The Hazardous Waste Research and Information Center has developed a similar manual for printing industry. Both manuals should be available in the Fall. NEWMOA plans to charge a nominal fee for the document for groups and companies that are not state or local government P2 programs. However, the fee has not yet been determined.

Finally, NEWMOA has recently published its 1995 Annual Report. The free report presents all of NEWMOA's activities during the fiscal year 1995.

### **P2 Experts**

NEWMOA is developing a P2 Experts Database. This Database is a searchable directory of private sector P2 professionals including consultants, business professionals, educators and staff from non-profit organizations. By the Fall, a startup version of P2 Experts will be placed on EPA's Enviro\$en\$e World Wide Web Site. From this site, P2 Experts offers a quick and convenient way to locate individuals that possess specific industrial experience, process knowledge and P2 expertise. Once placed on the web, P2 Experts will continue to grow as more P2 professionals become participants. Except for the time it takes to complete an application/questionnaire, P2 Experts costs nothing to join.

To promote the development of P2 Experts, NEWMOA has been contacting numerous private sector P2 professionals. Contact Robert Guillemin, the P2 Experts Coordinator at NEWMOA, to assist with the database and send him names of appropriate individuals, publications, trade associations, professional directories, or mailing lists of P2 consultants and business professionals.

To become a participant in P2 Experts, contact Rob at NEWMOA or visit the P2 Experts web site at <http://es.inel.gov/nppr/p2experts>.

**For more information contact:** NEWMOA (617) 367-8558; e-mail: [neppr@tiac.net](mailto:neppr@tiac.net).

## **CONNECTICUT**

### **CONNECTICUT DEP**

#### **NICE-3 Award to Connecticut Company**

The Whyco Chromium Company of Thomaston, CT in partnership with the Connecticut DEP received a NICE-3 grant of \$390,400 to demonstrate and commercialize a new highly efficient electro-plating barrel. The new barrel will result in significant reductions in: energy consumption, raw material inputs, heat input, rinse water use, in-house waste treatment costs, and solid waste requiring costly disposal. Commercialization of this technology would enable these energy, water, materials and waste savings to be realized by the plating industry nationwide.

#### **Sites Visits**

In July and August, DEP's P2 staff performed a number of on-site P2 assessments for small businesses in Hartford. Assessments were conducted for an autobody shop, a cosmetic lab, and several printers. Owner response to the visits included: "It woke me up to a lot of things and helped me see the whole picture and ways to handle them." Another commented that the visit helped her identify the steps she needed to undertake to correctly set up her new manufacturing plant. Business owners continue to stress the need for DEP to help identify financing--particularly grants to carry out P2 measures.

#### **Hartford Neighborhood Environmental Project**

Efforts are underway to fund programs planned by the Hartford Neighborhood pilot project. Neighborhood Environmental Plans were discussed by participating residents involved in the pilot project's neighborhood environmental committee at the concluding meeting held in July. Portions of the Plans will be incorporated into fact sheets and distributed throughout the City. Programs anticipated to be continued with new grant funds include: conducting integrated pest management and multi-family recycling in the Sheldon Charter Oak neighborhood, and turning a vacant lot into a community garden and holding lead poisoning prevention and abatement training in the Clay/Arsenal neighborhood. The Department has applied for additional grant money to assist neighborhood small businesses, particularly auto, printing and metal shops.

**For more information contact: Mary Sherwin, CT DEP (860) 424-3297.**

## **CONN TAP**

### **Polish/Estonian Visitors**

ConnTAP hosted a delegation from Eastern Europe on August 20. During their day-long visit to CT, the delegation toured the Ansonia Copper and Brass facility, followed by lunch and a presentation at ConnTAP's office. The group was especially interested in learning more about ConnTAP's Site Visit Program. Site Visit staff provided the group with valuable insights regarding performing audits and gaining the trust of industry.

The delegation of seven representatives from Polish and Estonian Pollution Prevention Centers and a representative of the Estonian Ministry of Environment are in the country as guests of the World Environment Center in New York. While here, they will observe U.S. environmental technologies, interact with technical assistance organizations, and gain exposure to U.S. experience in training and education, business development, and regulatory reform.

### **Business P2 Roundtable**

The Connecticut Business P2 Roundtable (CTBPPR) kick-off meeting was held on May 30 at ConnTAP with 18 business people in attendance. The mission of the CTBPPR is to provide CT manufacturers with a dedicated forum for addressing P2 issues. The group enthusiastically supported the concept of a P2 roundtable and offered numerous comments on making the roundtable a success. Additional inquiries have been received about the roundtable since the kick-off meeting.

A subsequent meeting was held on July 11 at Pratt and Whitney Aircraft in East Hartford. A facility tour was conducted, followed by a discussion of water conservation successes by the attendees. The main goal of the meeting was for a subcommittee to work toward development of a mission statement for the group.

Due to demand from the group to meet more frequently than quarterly, future meetings will be planned at two month intervals. The next meeting will be held at Pratt and Whitney's Middletown facility on September 12. The mission statement subcommittee will reconvene, followed by a plant tour for all participants.

### **Library Update**

ConnTAP's transition to Inmagic DB/Textworks library software has been completed. Remaining work includes some scanning of tables of contents/indexes for

documents published prior to 1990, as well some document labeling. Configuring a DB/Textworks database for periodicals and Site Visit Program reports will be addressed next by ConnTAP staff.

The driving force behind the library software change and reorganization of the library was to improve document accessibility. ConnTAP now has the capability to scan document abstracts, indexes, or tables of contents directly into the document's DB/Textworks record. By incorporating hundreds of keywords into each document record in this manner, highly specific keyword searches can be performed.

### **P2 Conference**

The 11th Annual Conference on Pollution Prevention is scheduled for Tuesday, October 29 at the Four Points Hotel in Waterbury, CT. The conference will feature some of the latest technology and P2 techniques for the metal finishing and electroplating industries. In addition to informative seminars and panel discussions, new services and equipment will be available for review and demonstration. Conference cost is \$65 per person.

### **ConnTAP Quarterly Newsletter**

The Summer 1996 issue of the *ConnTAP Quarterly* was published in August. The newsletter's cover story discussed the success of the new CT Business P2 Roundtable. Also in the newsletter are articles concerning: a resin manufacturer's P2 efforts; an interview with a former metal finisher who is now a DEP inspector; improvements to the ConnTAP library; and an overview of the Spring 1996 National Pollution Prevention Roundtable (NPPR) conference in Washington.

### **New Case Studies**

Matching Challenge Grant project reports on two companies are available from ConnTAP. Both reports highlight water conservation efforts by metal finishers.

The "Mixed Wastewater Reuse and Recycle Feasibility Study" was prepared by Bead Industries of Bridgeport and Integrated Technologies of Danville, CT. The report discusses the latest in a series of waste minimization projects undertaken by Bead. Grant project efforts discovered several water conservation opportunities in Bead's metal finishing department, including: recycling of acid rinsewater; closed looping of copper and silver plating lines, coupled with three stage countercurrent rinses; and incorporating a three stage countercurrent rinse into post burnishing rinses. Total

water use at Bead is expected to drop by 82 percent after implementation of the simple changes recommended in the report.

"Closed Loop Chromium Plating and Air Handling System, A Case Study" was prepared by the National Chromium Company of Putnam and The Pollution Prevention Cooperative of West Hartford. Under the 1990 Clean Air Act, the EPA released the Maximum Allowable Control Technology (MACT) standards, which set stringent emissions limits for chrome electroplating. National Chromium has closely followed the MACT regulations and preemptively applied a closed loop chrome plating recycling and air handling system. The system has been in operation for over a year without problems, and has significantly decreased generation of chromium rinse waters and air emissions. The case study describes the technical and financial aspects of the closed loop project. It also provides "unitized" cost savings that can assist other metal finishers with evaluating the financial feasibility of closing their process loops.

**For more information contact:** Bob Brown, ConnTAP (860) 241-0777.

## **MASSACHUSETTS**

### **MASSACHUSETTS DEP**

#### **New DEP/TURA Policies**

This summer, DEP distributed two guidance documents to assist TURA filers for reporting requirements under the Massachusetts Toxics Use Reduction Act (TURA). The first document relates to reporting and planning of certain metal alloys that were the subject of a recent delisting action by the Administrative Council on Toxic Use Reduction (Council). The second document clarifies the Council's policy on what is considered integral recycling under TURA. It also provides specific DEP guidance on what types of activities are considered integral and general guidance on how each activity can be regulated under DEP hazardous waste regulations.

#### **DEP/TURA Announces World Wide Web Site**

Since January, 1996, DEP's Toxic Use Reduction Program has had information available on the World Wide Web. Information includes Tier 2 filing software, TURA Data Extract Files for 1990-1994, 1993 & 1994 Data Releases, EPA TRI data release, glossary of terms, 1995 chemical list of TURA chemicals. In addition to

this compilation of TURA data, the TURA web site also includes TURA policies for metal working operations, integral recycling policies under TURA and the plan update guidance. Over the months of June and July, over 500 inquiries were recorded on the system. The TURA web site address is <http://www.magnet.state.ma.us/dep/bwp/dhm/tura/>

In July DEP/TURA distributed over 500 Directories of Courses Approved for TURP Planner Recertification Credit. For the first time, all courses eligible for credit for TURPs have been compiled in one document.

**For more information contact:** Doug Fine, MA DEP (617) 574-6862.

## **MASSACHUSETTS OTA FOR TUR**

### **Conferences**

In late May and early June, OTA held two well-attended and successful conferences.

"Coatings for the Environment: The UV Cure," on May 23rd featured presentations on the environmental and economic benefits of using UV curing in coating and printing. Sponsored in conjunction with the Rad Tech Foundation, this event attracted 90 participants. Companies that are using UV systems made presentations during afternoon breakout sessions, leading to lively discussion and question-and-answer sessions.

More than 125 people attended "Regulations, Incentives and the ISOs: Making the Connections" held on June 6. Speakers from government and industry explained how the requirements for developing a TURA plan and getting certified for ISO 9000 or ISO 14000 overlap. Incentive programs offered by the EPA and OSHA were also featured topics. Co-sponsors included TURI, MMP, the Associated Industries of Massachusetts (AIM), the American Society for Quality Control (ASQC), and the Northeast Business Environmental Network (NBEN) and DEP. Tentative plans are underway to repeat this conference in the Central MA region during the winter.

### **Common Sense Initiative**

George Frantz has been appointed by EPA Administrator Carol Browner to serve on the national CSI subcommittee on the printing industry. The group continues to work on a multi-media, P2-oriented model permit for printers of all sizes. A preliminary presentation to the national CSI Administrative Council

is planned for November. Rick Reibstein is continuing his role as chair of a workgroup called "Overcoming Barriers to P2 and Recycling," as part of the national CSI subcommittee for the electronics industry.

### **P2 Internship Program**

OTA is collaborating with the University of Massachusetts Dartmouth (UMD), Cape Cod Community College (CCCC), and the Mass Maritime Academy (MMA) to place interns in manufacturing facilities in southeastern Massachusetts to work on P2 or environmental projects starting this fall. Before beginning, all interns will complete an introductory training course on TUR provided by TURI and the 40 hour OSHA hazard communication training. The students, all of whom are majoring in science or engineering disciplines, will be required to assist the sponsoring facility in implementing or maintaining the company's toxic use reduction and/or environmental program. To complete the certification program, each student is required to work a minimum of 200 hours at a sponsoring facility. An initial mailing by OTA to several companies in the region in early August has resulted in several phone calls from companies expressing interest in the program. As part of this effort, OTA and TURI have collaborated on a P2 curriculum that the colleges are being encouraged to incorporate into their engineering programs.

### **New Projects**

In response to the recent identification of phthalates as a class of chemicals believed to mimic hormones and disrupt endocrine systems in wildlife and humans, OTA is embarking on a research project to identify which industrial processes use phthalates and whether there might be more benign substitutes available. Hazrat Noorzad of the Metro Team is leading this project.

Preliminary approval has been received from EPA on a PPIIS grant for a project with the autobody shop industry in MA. Partners include MA DEP, the state Attorney General's Office, OTA and industry representatives. Similar to the Printers' Partnership, but on a smaller scale, preliminary plans include compliance incentives, a "plain English" compliance workbook, P2 technical assistance and outreach. Special attention will be focused on targeted environmental justice areas throughout the state.

Another Printers' Partnership spinoff is being developed for the computer and printed wiring board industry. Partners will include MA DEP, OTA, and

industry representatives. Details will be planned during the fall, with an anticipated start date of early 1997.

### **OSHA Training**

Nine members of OTA's technical staff completed a 20-hour OSHA training course and received "Collateral Duty Certificates." The course, taught by OSHA's National Training Institute and sponsored by the Massachusetts Safety Council, was intended for those that need some familiarity with OSHA regulations, but who do not have responsibility for OSHA inspections or enforcement. Along with their certificates, participants received a detailed OSHA reference manual.

### **Ongoing Projects**

OTA staff is continuing work on the following:

- **MWRA Mercury Workgroup:** OTA is actively involved in two subcommittees of this group. Joe Paluzzi of the Metro Team serves on the Facility Plan Management Committee that is developing a "how to" manual for hospitals interested in identifying and reducing mercury discharges. Scott Fortier, Metro Team Leader, is co-chair of the Networking Committee that is working on identifying other groups, both nationally and internationally, who have done work on mercury discharge issues. The committee will compile a list of resources that hospitals can use. These projects are part of Phase II of the Workgroup's plan. Phase II is expected to be complete by December 1996.
- **The Massachusetts Printers' Project (MP2)** is a joint effort of OTA, DEP, the Printing Industries of New England (PINE) and EPA Region I. Late entries into the partnership are being accepted. However, the fees will be twice that paid by companies that joined the partnership during the enforcement moratorium/registration period that ended in June 30. Although steep, this fee increase remains less than companies would pay for combined past due compliance fees and permit application fees for air and wastewater permits.
- OTA is becoming increasingly involved in the Massachusetts Watershed Initiative, which seeks to coordinate all the work various environmental agencies conducted by the state's 27 river basins. OTA staff members will serve on several interagency basin teams, and OTA will provide leadership for the interagency team working on the Ten Mile River in southeastern Massachusetts. In addition, OTA continues to have a representative on

the Watershed Initiative Steering Committee, which assists Secretary of Environmental Affairs Trudy Coxé with advice and oversight of the initiative.

- Overall TURA program evaluation in coordination with TURI and DEP.

### **Upcoming Events**

OTA staff are preparing the following workshops for the fall:

Sept 10 -- "Computers and Competitiveness: Business Opportunities through Electronic Data Interchange," a workshop on new federal regulations requiring government contractors to transact all communications about bids, contracts, etc. electronically. Sponsored in conjunction with the Electronic Commerce Resource Center of Scranton, PA, this workshop at Stonehill College in North Easton is a pilot that may be repeated in other regions of the state. The agenda also includes training by OTA staff on how to use the Internet to find sources of P2 information.

October 9 -- "Cleaner Communities: A Workshop for Businesses and Municipal Officials," in Holyoke. A full day of P2 and TUR topics, with the morning session targeted at businesses with topics including regulatory updates and company P2 presentations, and the afternoon session geared toward municipal officials with topics on wastewater treatment issues and non-point source pollution programs.

October 16 -- "Grease Reduction Workshop" -- In collaboration with the Newburyport Wastewater Treatment Facility, a workshop for restaurant owners and managers, plumbing inspectors, and health officers on how to reduce and properly manage discharges of grease from restaurants to municipal sewer systems.

**For more information contact:** Cynthia Barakatt (617) 727-3260 ext. 666 or e-mail at [cbarakatt\\_EOEA@state.ma.us](mailto:cbarakatt_EOEA@state.ma.us).

### **MASSACHUSETTS TURI**

#### **22nd Mr. Clean Conference**

The Toxics Use Reduction Institute (TURI) with OTA and DEP are hosting the internationally recognized, 22nd Mr. Clean Conference this October 16, 17 and 18 at the Hawthorne Hotel in Salem, Massachusetts. The Conference brings together experts in the field of cleaning and contamination control for three packed days of presentations and technical information sharing. This

## **THE NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION**

The Northeast Waste Management Officials' Association (NEWMOA) is a non-profit interstate governmental association whose membership is composed of the pollution prevention, hazardous and solid waste program directors in CT, ME, MA, NH, NJ, NY, RI and VT. NEWMOA is a forum for increased cooperation among the member states, a vehicle for the development of unified positions on issues, and a source of research and training on hazardous and solid waste and pollution prevention. 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 Roundtable). The NE Roundtable involves four components: (1) clearinghouse and databases; (2) training; (3) research; and (4) meetings, committees and conferences. NEWMOA's P2 program is supported by NEWMOA member states and grants from the U.S. EPA.

is an opportunity for manufacturers, consultants, vendors, and government personnel to discuss issues including hi-tech precision cleaning, general degreasing, aqueous and semi-aqueous cleaning, and other new cleaning methods.

### **Facilities Demonstrate TUR Strategies**

TURI, in partnership with five Massachusetts manufacturing facilities, is hosting a series of site tours designed to promote the adoption of cleaner technologies. The featured technologies include nitric acid recovery using diffusion dialysis, electron beam curing of polymers in coating processes, pH reduction through CO<sub>2</sub> substitution for acid, garment cleaning using water instead of perchloroethylene, integral recycling of acetic acid vapor, closed-loop aqueous cleaning of mechanical parts, and control charting. The site visits for the Cleaner Technology Demonstration Sites Program are scheduled through October of 1996.

### **New Report**

"Measuring Progress in Toxics Use Reduction and Pollution Prevention" is a new TURI report authored by Elizabeth Harriman and Maureen Hart. The report was

designed to develop and test a methodology for measuring toxics use reduction progress in the Commonwealth, and to apply this methodology to the collected data. Results indicate that progress is being made in reducing toxic chemical use and the generation of toxic byproducts. Between 1990 and 1993, the following changes occurred in the reporting firms: 17 percent actual reduction and 19 percent normalized reduction in total use of toxic chemicals reported under TURA; 13 percent actual and 14 percent normalized reduction in total byproduct generated; 4 percent actual and 8 percent normalized reduction in total toxic chemical transfers reported under the national Toxics Release Inventory. Among the more interesting aspects of this report are the evaluation of data validity and the recommendations.

**For more information contact:** TURI's main telephone number, (508) 934-3275.

## **NEW HAMPSHIRE**

### **NEW HAMPSHIRE DES**

#### **Multi-media Inspectors Group**

The NH DES has developed an informal multi-media inspectors group that meets on a regular basis to provide all inspectors with cross-training opportunities and to evaluate multi-media inspection efforts. The Department's P2 Coordinator has participated in the meetings and has been providing input to the group regarding P2 policy and opportunities.

#### **P2 in Permit Guidebook**

P2 staff have been providing assistance to the DES Public Information and Permitting Unit on revision of the Departments Guidebook For Environmental Permits in New Hampshire. The new and improved guidebook will incorporate and promote P2 for the first time.

#### **P2 Legislation**

Legislation officially creating a P2 program in DES became effective July 1, 1996. The legislation formalizes current P2 activities and adds such additional items as a business confidentiality provision and the requirement to deliver multi-media compliance assistance and P2 assistance to generators. Department staff are currently working on the administrative details that need to be resolved so that full implementation of the legislative requirements can move forward.

## **DES "Green Team"**

The DES Green Team continues to meet regularly and work on a variety of projects. The Team's ongoing demonstration project is to divert pre-consumer food scraps from the waste stream generated by the cafeteria and compost it on-site, which has been highly successful. Several different types of bins were constructed by the Green Team and food scraps are composted along with leaf and yard waste. This effort has resulted in 2,335 pounds of useable organics being diverted from the waste stream in a three month period.

The composting project is used as an educational site to train employees, solid waste operators and others in the art of "backyard" composting. The "finished" compost will be used for landscaping around the grounds and will be available to DES employees. The Green Team will also be coordinating a site at the upcoming New Hampshire Coastal Clean-up, as part of the annual Coastweeks celebration. Although the clean-up focuses on debris removal from NH beaches there is a strong educational component that emphasizes source reduction.

## **The Borderline Project**

Without a mandatory TUR/P2 planning law in NH, P2 staff have been pursuing innovative ways to motivate companies to undertake P2 activities. In the Department's PPIS project, which begins on October 1, 1996, DES plans to pilot a new approach of targeting "borderline" facilities. "Borderline" is defined as those facilities just above or below the regulatory threshold for hazardous waste generation or air emissions. In addition, the agency will attempt to select facilities that also have a wastewater discharge in order to address multi-media concerns. DES believes that facilities which meet these hazardous waste generation criteria have significant motivation to reduce their regulatory burden through P2. In addition to on-site assistance for several facilities, DES will measure the success of these efforts based on "before" and "after" generation rates and compliance status.

## **Thailand Proposal**

DES sponsored a grant application on behalf of UNH to create a P2 and technology transfer partnership with Thailand. The proposal has been selected as a finalist by the Council of State Governments and US - Asian Environmental Partnership. CSG/USAEP plans to make a final decision on grant awards prior to September 30, 1996. If the proposal is funded, DES P2 staff will participate in the project.

## **Mercury-Containing Lamps Project**

At the request of the Commissioner, the DES P2 Coordinator is leading a multi-media team to address mercury-containing lamps. The goals of this project are to: (1) examine options for reducing the amount of mercury in fluorescent lamps, and (2) increase the recycling rate of fluorescent lamps.

## **Eco-Industrial Park**

P2 staff are participating in a multi-agency project to create an Ecological-Industrial Park in the Town of Londonderry, NH. The Eco-Industrial Park will be home to businesses that are not only "environmentally friendly" in their operations but will also be connected to one another in some fashion. For example one business may generate a waste or by-product that is used by another business as a raw material. The Eco-Industrial Park Advisory Committee is currently developing a model of what the park will look like. In addition, workgroups have been created to develop minimum performance standards, draft legal covenants, and perform outreach and public participation. Pollution prevention is emphasized in the Eco-Industrial Park. Advisory committee participants include Town of Londonderry, DES, EPA Region 1, Stoneyfield Farms, and a number of other individuals and organizations.

## **Compliance Leadership Through Environmental Assessment and Negotiation**

NH DES P2 and Regulatory staff conducted their first CLEAN-P2 Assessment in August. Also participating were staff from Public Service Company of NH (energy audit), the University of NH, and EPA Region I. Through this EPA Initiative led by the University of NH, metal platers and finishers that meet certain criteria are offered a multi-media/P2 assessment without the fear of enforcement action from DES. For the first assessment, relatively minor compliance issues were identified and, due to the extent to which P2 has already been implemented, few additional P2 opportunities were revealed. The results of the first assessment are currently being compiled. Several other firms have expressed an interest in the CLEAN project.

## **NH Hosts Delegation from Morocco**

The UNH and the DES (Small Business Technical Assistance Program and NH P2 Program) hosted 12 visitors from Morocco that were in the US to tour several metal plating and tanning facilities. The purpose of the visit was to observe US P2 operations first hand in an effort to improve similar operations back home.



The Moroccan delegation was comprised of several representatives of plating and tanning firms, the Moroccan Ministry of the Environment, a Moroccan agency charged with protecting both the "old" and the "new" portions of the City of Fez, international consultants, a translator, and several tour guides of the organization USA Pride/Chemonics of Washington, D.C. DES Commissioner Varney welcomed the group on the first day of their tour of NH, ME, and MA's firms. A wrap-up meeting was also held on the last day of the week-long tour to discuss lessons learned, some of the differences between the two countries (economically and environmentally), some of the P2 opportunities that will be brought back to Morocco, and additional ways in which the NH representatives could be of further assistance.

### **P2 Video for NH Metal Platers and Finishers**

The Model P2 Practices Video Project for Metal Platers was initiated under a PPIS Grant received by the University of New Hampshire. The video workgroup, comprised of representatives from the DES, EPA Region I, and private industry recently completed a draft script outline, met with a video consultant and is finalizing a bid request packet. In its current form, the video would highlight such topics as good operating practices, rinse water recovery, concentrated bath maintenance, solvent alternatives, resources available, the various benefits of P2, cost accounting, waste tracking, and self-assessment. In order to facilitate future videos focusing on different industry types, the video will be produced in modular form that would include a "generic" P2 introduction.

### **Municipal Managers Training**

DES, the New England Interstate Water Pollution Control Commission (NEIWPCC), EPA and two Regional Planning Commissions held a conference titled "Environmental Management Issues for Local Officials." This conference was developed under DES' most recent PPIS Grant. A survey was sent to local officials prior to the event to solicit input regarding topics of high interest. Their responses were reflected in the conference agenda and included such issues as drinking water regulations, landfill closure process, grant programs, septic systems and used oil collection. Although participation was less than expected, feedback from those in attendance was excellent. It is expected that outreach of a similar nature will be provided in the future by working collaboratively with local officials and by participating in selected quarterly and annual meetings.

### **Somersworth Phosphate Reduction Project**

DES, EPA, Somersworth POTW and NEIWPCC staff continue to work on the Somersworth Phosphate Reduction Project, an initiative focused on reducing phosphate loadings to the Somersworth POTW from probable domestic, commercial, and industrial sources. Because they are a suspected source of phosphates, P2 staff have been researching consumer and commercial alternatives to phosphate containing cleaning and automatic dish washing detergents. With no specific legislative bans or restrictions in place for automatic dish washing detergents, the markets for consumer sources of alternatives are limited and virtually non-existent for the commercial sector.

Of the identified industrial sources of phosphates, one company instituted a change that substantially reduced its phosphate discharge, and another may be implementing a possible process change sometime in the future. The remaining large source of phosphates is a seafood processing company. P2 staff are currently researching possible P2 opportunities for the company. It is expected that an education component will be developed once a meeting of all project partners has taken place in late September. Several industries in Somersworth were able to voluntarily reduce the level of phosphates being discharged through P2.

### **P2 Curriculum for Automotive Service Programs**

New Hampshire P2 staff, with the help of NH Automobile Dealers Association (NHADA), NH Technical College instructors, and DES regulatory staff have completed a P2 curriculum for automotive service programs at technical colleges and secondary schools. The first two copies of the new curriculum were sent to the participating automotive service program instructors at two technical colleges.

### **P2 Partnership and Internship Program**

New Hampshire Pollution Prevention Partnership (P3) continues to meet quarterly to discuss ways to promote P2 in the state. P3 members are currently working on the Metal Platers Video Project, CLEAN-P2 Initiative, and a brochure to highlight the benefits of P2 and the assistance resources offered through the P3. The next quarterly meeting is scheduled for Thursday, September 26, 1996. The P3 also completed the Summer 1996 Pollution Prevention Internship Program. As in the past, the Summer Internship program was a great success with ten UNH students being placed at six companies, the DES Small Business Technical

Assistance Program, and the NH P2 Program. Since its inception over three years ago, the P3's Summer P2 Internship Program has placed over forty students at thirty companies.

### **Environmental Consultant's P2 Exchange**

P2 staff are currently organizing a forum to exchange ideas and information with the environmental consulting community regarding pollution prevention and its role in regulatory compliance. Staff will explore ways for the DES to provide assistance to consultants and ultimately the business concerns they serve. A recent focus group was convened to develop a format for the forum. Some questions that were explored were: what level of P2 awareness exists in the consulting community; what are the consultants' perceptions of P2 and integration in regulations; how do consultants identify P2 opportunities; what barriers exist to implementing P2 and; what P2 information resources are available to allow consultants to better serve their clients.

### **Nashua Regional Household Hazardous Waste/SQG Waste Collection Center**

On August 1, 1996, the dedication of the Nashua Regional Household Hazardous Waste /Small Quantity Generator (HHW/SQG) Waste Collection Center was held in Nashua. DES provided a \$24,500 "pass-through" grant from the EPA Region I to purchase the hazardous waste storage building. The Center is the first of its kind in the State. There is no charge for the disposal of HHW to the residents of the nine participating communities. SQG's in the pilot project area may utilize the services of the hazardous waste contractor to manage up to 20 gallons of their wastes on a pre-registration basis. The storage of partially filled drums of HHW will allow the hazardous waste transporter, Laidlaw Environmental Services, to accumulate and transport full drums of HHW at a cost savings to the City of Nashua and the Nashua Regional Planning Commission. Attendance for the event included Mayor Donald Davidson, Joseph DeCola, EPA; Don Zizzi, Executive Director, NRPC; and Commissioner Bob Varney. The first day of operation for the Center was August 3, 1996 with monthly collections to be held through the warm months of each year. DES will continue to fund the disposal costs associated with HHW collection at the Center.

### **On-site Assistance**

P2 staff conducted several on-site assessments during this reporting period at such facilities as a manufacturer of surgical equipment, a radiator repair

shop, and a manufacturer of specialty coatings and adhesives. In each instance, the P2Tech Internet listserve has been an invaluable resource for P2 staff. In the case of the coatings manufacturer, a request for assistance resulted in six responses and two return phone calls. P2 staff recently received a thank you letter from the company indicating that they will be implementing a number of the P2 recommendations!

**For more information contact:** Vince Perelli, NH DES (603) 271-2903 e-mail: [perelli@deswmdpl.mv.com](mailto:perelli@deswmdpl.mv.com)

## **NEW JERSEY**

### **NEW JERSEY TAP**

Over the past year, NJTAP engineers have been working on a research project entitled, "Analysis of the Decline of New Jersey Hazardous Waste Generation." The goal of the project was to determine why hazardous waste generation in NJ has steadily declined each year from 1990 to 1994. The project was funded and initiated by the NJ Hazardous Waste Facilities Siting Commission. The source of the research was the computerized records of the Uniform Hazardous Waste Manifest forms that must accompany the transportation of hazardous waste, as required by RCRA. Some findings of the project include: a) the decline was mostly due to sharply reduced generation by some of the biggest hazardous waste generators in the state; b) generators from SIC Code 28 (Chemicals and Allied Products) generated more hazardous waste than any other SIC code; and c) hazardous waste codes X725 (Oil Spill Clean Up Material, 42 percent decline) and X910 (Chemical Processing-Solids, NOS, 22 percent decline) were the waste codes primarily associated with the decline in hazardous waste generation from 1990 to 1994.

Staff engineers are currently working on several projects within the three primary focus areas of outreach, education and training and the construction of an information clearinghouse. With four full-time engineers, a host of talented part time students and dedicated semi-retired engineers, NJTAP has focused on aiding firms that have to file P2 Act plans. The focus will shift in the near future when NJTAP will concentrate its efforts on firms covered by the Clean Air Act Amendments and small quantity generators of hazardous waste.

Dr. Marcus Healy, Director of NJTAP, recently completed instructing a Spring graduate course entitled,

“Pollution Prevention, Life Cycle Analysis, and Industrial Metabolism” at NJIT. This course was also part of the National Technical University and was videotaped for future broadcast. Another associated seminar course is planned for the fall, “Pollution Prevention, Life Cycle Analysis, Industrial Ecology, and Strategic Environmental Management.”

NJTAP has recently completed ten Industrial Sector Profiles (ISP) with a special focus on NJ and P2 opportunities. The ISPs utilize Hazardous Materials Throughput (DEQ-114) and Toxic Release Inventory (TRI) databases to characterize industrial sectors in NJ. In addition to P2 information, employment trends, use and release, environmental impacts, trade associations as well as World Wide Web (WWW) sites are included within the profiles. Abstracts will be made available on the Web and the entire profiles will be distributed in the near future through various media.

NJTAP is pleased to announce that final awards have been made in the Bradley Grant Program. The Bradley Grants, funded by the EPA and administered by NJTAP, are intended to provide financial assistance to small manufacturers to aid in the implementation of P2 programs at their facilities. Phase I was developed in early 1994 and targeted SIC codes 26, 28, 30, 33, and 34. Six companies were awarded these grants totaling \$204,000. Phase II was open to SIC codes 20 through 39, excluding the aforementioned five SIC codes. Three companies received awards, for a total of \$106,477. Phase III, currently in its final state of completion, was open to companies in any of the above SIC codes. Four companies received awards totaling \$137,870. A final environmental impact report for these specific SIC codes is currently being developed.

NJTAP has sped onto the information superhighway by creating a WWW site allowing companies to acquire P2 information at any time. The WWW address is: <http://hertz.njit.edu/~njtap>. The home page is continually updated with new articles and other P2 information. The new site will also make retrieving information more efficient, especially for our environmental consultants, who will have remote access to such office resources as facility databases and other WWW sites. Included in the NJTAP site is general information about the program, as well as the mission statement and employee profiles (with pictures) and hyperlinks to e-mail accounts. In addition, the home page contains papers and publications that have been written by NJTAP staff, including past issues of the *Catalyst*, Environmental Briefs, soon to come ISP and

Hazardous Material Function Reports (HMFR). The HMFRs will examine similar databases as ISPs, but from the viewpoint of material processes, such as mass deposition (e.g. painting) and mass removal (e.g., vapor degreasing). Lastly, Environmental Links have been created to such popular P2 sites as Enviro\$en\$e, the National P2 Roundtable Yellow Pages and P2 Tech Archives.

Other projects currently being explore by NJTAP include: incorporating regulatory rules and laws as they apply to specific industries to the ISPs; improving the Web page and placing the Spring course lecture notes on the homepage; developing the next edition of the *Catalyst*; installing an office-wide LAN system; recruiting new engineers, scientists and computer experts; creating various database integration projects; honing Standard Operating Procedures (SOPs), including self-evaluation; and increasing NJTAP's exposure to small and medium-sized businesses.

**For more information contact:** Doug Kretkowski, NJTAP (201) 596-5863.

## **NEW YORK**

### **NEW YORK STATE DEC**

#### **Organizational Changes**

On June 17, 1996, the Pollution Prevention Unit was "re-born." After having existed for nearly a year as a bureau within the Division of Pollution Prevention and Waste Reduction, the Unit is once again a separate entity with its Director, John Iannotti, reporting directly to the Deputy Commissioner for Environmental Quality and Pollution Prevention. The Unit now comprises three sections: Project Management Coordination, Program Development and Support, and Environmental Monitors Program.

#### **Outreach**

An exposition was held in Buffalo on August 28, 1996, on alternative cleaning solvents and technologies. It was sponsored by DEC's Pollution Prevention Unit and Region 9 Office, the Erie County Office of Pollution Prevention and the Environmental Business Association of NYS, Inc. and also funded by a PPIS grant. Nearly 30 vendors provided hands-on demonstrations of their technologies for cleaning dirty parts and equipment brought in by those that attended the event. An area was set up to provide information on technical assistance

opportunities including demonstrations on how to use such electronic P2 resources as the Clearinghouse, Internet, and SAGE (Solvents Alternatives Guidelines). Representatives from NYS Empire State Development, the Small Business Assistance Program, and MA TURI were also on hand to talk about their assistance programs.

### **M2P2 Integrated Permitting Pilot**

The DEC's Integrated permitting initiative is an effort to coordinate, integrate and synchronize all regulatory environmental requirements and activities at an industrial facility. Integrated facility management has been the focus of DEC for many years with an emphasis recently shifting toward achieving P2 improvements through multi-media considerations and mechanisms such as integrated work planning, P2 plans, permits and compliance/enforcement orders.

As a first step in the M2P2 integrated permitting initiative a pilot permitting project is underway at a General Electric Company facility in Waterford, New York. A goal of this effort is to evaluate the merits and feasibility of promoting P2 through an integrated multi-media facility permit process. An inventory and evaluation initial report has been submitted to the Department. A final report on the benefits and drawbacks to this approach is expected by the end of the year.

### **Update on Clearinghouse Activities**

The New York State Pollution Prevention Information Clearinghouse provides free P2 information to industry, the public, government and others. Recently, the clearinghouse capability has been expanded by installation of the clearinghouse computer database in eight of the nine regional offices of the Department, P2 technical databases and a vendor directory can now be searched in the regional offices and the central office. This should greatly enhance the Department's efforts to provide P2 technical assistance to businesses in New York State.

**For more information contact:** Mary Werner, NYS DEC (518) 457-2553.

### **NEW YORK ITAC**

After long negotiation, ITAC is now planning for the start-up of an industrial materials exchange service to be operated in coordination with the existing P2 service. The key element of this new service will be the use of

ITAC's field engineers to work with client companies to identify potentially reusable solid waste streams, and to assist them to find markets for such materials. On the other end, ITAC will also work with companies to identify applications where reclaimed materials can be used as substitutes for virgin materials. This service is funded by the New York City Department of Sanitation and will be operated in partnership with the City University of New York.

ITAC is participating with the EPA Common Sense Initiative for the printing industry on a project to assist printers operating in NYC to improve compliance and to utilize cost effective P2 techniques. ITAC will be coordinating technical assistance services for the "New York Printing Project" in close coordination with EPA, New York City Department of Environmental Protection, trade associations and other technical assistance service providers.

**For more information contact:** Jeffrey Potent, NYC ITAC (212) 240-6920.

### **SUFFOLK COUNTY WATER AUTHORITY (SCWA)**

SCWA is currently wrapping up its first session of the Students and Industries for Pollution Prevention (SIP2) program that is funded by a PPIS grant. This intern program provides free on-site waste minimization audits to small and medium-sized companies in Suffolk County to help them identify ways to reduce the use of hazardous materials in their facilities. The program is working with students and professors from three Long Island universities: New York Institute of Technology, Polytechnic University at Farmingdale, and the State University of New York at Stony Brook.

The session started in May with the interns attending the NYSDEC's Annual Pollution Prevention Conference as part of the training. That was followed by a four-day training program developed by SCWA P2 staff and George Goode from Brookhaven National Laboratory (BNL)'s Department of Hazardous Waste Management and Waste Minimization. BNL made available "shop" facilities that enabled the students to perform mock audits. This was an integral part of the training effort that provided the students with an opportunity to experience what they might see in an actual small shop. The training program used various tools and media, such as speakers from regulatory agencies and industry, videos, mock facility tours, brainstorming sessions, and

P2 concepts training (Play-Doh factory) geared to the industries signed up to participate in this program. The live segments of the training program were also videotaped. In addition, Stan Barnett from the University of Rhode Island Pollution Prevention Center participated in the training session and provided the students with his program experience of using students to work with industry.

Audits were completed at three companies that volunteered to participate in this program: a lithographic printer, a flexogravure printer, and a printed circuit board company. Currently, reports prepared by the interns are under review. The interns will be presenting their recommendations to the companies in September. New companies are being solicited to participate in the next session to start in January 1997. The overall program will be evaluated by SCWA with input from the interns and the companies to identify any modifications that may be necessary for the next session.

**For more information contact:** Judy Jakobsen, SWCA (516) 563-0306, e-mail: swrs001@lilrc.org.

### **ERIE COUNTY P2 (ECOPP)**

ECOPP has recently brought a new staff member on board to spearhead the Buffalo River combine Sewer Overflow Pollution Prevention Project, which is funded by an EPA PPIS grant. Dick Diamond came to Erie County with over 30 years of engineering experience, and has already developed draft outreach materials for the program.

ECOPP has also recently co-sponsored a Solvent Alternative Exposition with NYS DEC P2 Unit (see above). Companies brought their dirty parts to the Expo so that they could try out these alternatives to toxic or ozone depleting solvents. Over 200 companies attended, as well as almost 100 representatives from government agencies.

The Upstate NY Materials Exchange listing is another tool ECOPP has brought to local businesses, organizations, and agencies. This exchange lists materials that would otherwise be disposed of as solid waste.

In addition, ECOPP's P2 Partnership Pilot Project with the Town of Amherst is coming to a close. The partnership has currently conducted over 15 joint P2 assessments at a variety of facilities. Businesses have been responsive to the P2 strategies recommended. The

P2 philosophy has been enthusiastically adopted in many departments with this Town, including the engineering, pretreatment, and refuse departments. ECOPP has been happy to learn of several examples where P2 has been incorporated into regular Town inspections, and Erie County and the Town of Amherst plan to continue working cooperatively on waste reduction issues.

Finally, ECOPP is continuing to work on its Local Government P2 Targeting Project, which is funded by a grant from the EPA's Great Lakes National Program Office. This project targets facilities that release or store pollutants that are a priority in the Great Lakes. ECOPP identified 25 facilities as priorities based on regulatory information, P2 potential, as well as outreach to Local Disaster Coordinators. These facilities are being given the opportunity to have a free, non-regulatory P2 assessment at their facility.

**For more information contact:** Tom Hersey, ECOPP (716) 858-7674 or Bonnie Lange, ECOPP (716) 858-8560.

## **RHODE ISLAND**

### **RHODE ISLAND DEM**

#### **RI P2 Conference**

In response to the success of the 1994 Rhode Island Pollution Prevention Conference and Expo, this year's biennial event has been extended to three days, from October 23 to 25, 1996, at the Rhode Island Convention Center in Providence. As in previous conferences, a vast pool of P2 professionals will be on hand to make presentations and display equipment and services. This year's conference agenda is already starting to shape up with many stimulating sessions scheduled -- these include: Financial Incentives for Pollution Prevention; Saving Money While Reducing Wastes; Environmental Regulations: How You Can Stay in Compliance!; and, What Works: Pollution Prevention Success, Parts I and II. New topics on the 1996 conference docket encompass the Brownfields Program: New Developments and a session on the increasingly popular commercial recycling field. The 1996 Rhode Island Pollution Prevention Conference and Expo is expected to attract over 1,500 participants.

#### **RI's P2 Program is Moving!**

Rhode Island's P2 Program is in the process of moving its offices to the second floor of 235 Promenade

Street in Providence. The move is scheduled to take place around the middle of August 1996. The P2 group will be situated in DEM's new Office of Technical and Customer Assistance.

### **RI Decreases Toxic Releases**

The Rhode Island business community continued to demonstrate significant improvement in cutting down on the amount of toxic pollutants released into the environment. Between 1993 and 1994, a 13 percent decrease in hazardous chemicals to the air, water, and land was reported by RI manufacturers. Information obtained from industry and reported to the EPA's Toxic Release Inventory (TRI) attested that this curtailment surpassed the national rate of 8.5 percent. Of these pollutants, 65 percent were recycled, 2 percent were used for energy recovery, 18 percent were treated, and only 15 percent were actually discharged back into the environment. Such glowing statistics can be attributed to industries that have taken the initiative to implement P2 programs.

**For more information contact:** RI DEM Pollution Prevention Program (401) 277-3434.

## **VERMONT**

### **VERMONT DEC**

The Environmental Assistance Division sponsored two P2 workshops in June; one for wood finishing operations and one for marinas and boat yards. A workshop on metal working fluids is planned for October.

The Governor has signed a proclamation declaring Sept. 16-22 as Pollution Prevention Week in Vermont. The Environmental Assistance Division is planning some media activities around this theme.

The fourth annual Governor's Awards for Environmental Excellence will be distributed at an awards ceremony on October 10. The Division is completing its pilot project to establish a business certification/recognition program. The Vermont Business Environmental Partnership is being piloted with vehicle service facilities and printers. Business tours have been held at participating facilities as part of the program and in an effort to promote the program. A facility tour has been scheduled for September 11 at the Vermont Agency of Transportation's Central Garage near Montpelier.

The Division is continuing to develop a compliance assistance program for small businesses that will be linked closely with P2 technical assistance. Office-based and on-site assistance programs are anticipated to be in place by November or December.

Vermont's Toxics Use and Hazardous Waste Reduction facility planning requirements are fully in effect as of July 1, 1996 when toxics use reduction planning requirements took effect for manufacturers, in addition to hazardous waste reduction planning requirements that were already in place for small and large quantity generators. To date there are 184 facilities subject to planning. 55 have been exempted from planning primarily through reductions that have occurred since the planning law was implemented in 1992.

Vermont DEC has begun to implement a process to evaluate new and revised environmental rules for P2 opportunities and incentives. This is part of a new department-wide rule making procedure that involves an interdisciplinary rules team to review and comment on all rule making activities at an early stage of rule development. Through this process the Department hopes to find new opportunities for prevention in the regulatory process.

The Division collaborated with the VT Manufacturing Extension Center on a grant proposal that was accepted for funding to develop and implement a state plan for coordination of environmental services and assistance. Key partners in the project include the VT Small Business Development Center, VT Law School, UVM, City of Burlington Economic Development Office, and VT Public Service Department, and several non-profit environmental assistance providers.

**For more information contact:** Gary Gulka, VT DEC (802) 241-3626, e-mail: [garyg@wasteman.anr.state.vt.us](mailto:garyg@wasteman.anr.state.vt.us).

## **EPA REGION I**

### **P2 Program Activities**

The New England Environmental Assistance Team (NEEAT), which currently embodies the core of EPA Region I - New England's P2 program, has devoted a great deal of time this summer addressing internal assistance/enforcement coordination issues, planning activities and sector focuses for FY 1997, and processing grants and contracts for work to take place in 1997.

NEEAT just learned that they will receive a Hammer Award, which grants national recognition for innovation and efficiency in government, from Vice President Albert Gore sometime this September. In May, NEEAT received an Excellence in Government Award from the Boston Federal Executive Board for "outstanding team management."

As part of a Headquarters cooperative agreement with the Tellus Institute, the "Financing Pollution Prevention Investments" Guide will be expanded, updated and placed on the Internet.

After exhaustive internal review, the penultimate version of NEEAT's compliance/P2 manual for Lithographers went to state contacts, trade associations and printers for review in August. Final comments will be incorporated in September.

Sally Mansur (NEEAT) is developing a set of five fact sheets for screen printers, based on needs identified by the national screen printers' trade association and some individual screen printers. A first draft of the fact sheets will be produced in early September.

NEEAT's recognition program for NEEAT-targeted sectors and all other NE businesses and organizations has undergone yet another change in structure. The team will be consulting the state P2 programs further about how the program will play out before it is formally announced, sometime this Fall.

Jack Healey (NEEAT) continues to work with New Hampshire DES staff to provide technical assistance to small-medium communities on wastewater treatment operations. Charles Conway also provides this assistance, but tends to work with other states, larger plants, and addresses conflicts within town government and over contractor management of wastewater facilities. Both Jack and Charles try to emphasize P2 solutions to POTWs' difficulties in meeting discharge limits.

Jack Healey (NEEAT), Norman Willard (Green Lights/Energy Star) and state staff conducted environmental awareness workshops for municipal officials, in Lewiston, Bangor, Portland and Presque Isle, ME and in Hanover, NH. The agendas encompassed Water Supply, Subsurface Disposal, Waste Management, Energy Conservation, and Financial Issues.

Charles Conway (NEEAT) continues to assist Boise-Cascade in developing a monitoring program for its chloroform emissions at its Rumford, ME mill, which will be of use in assessing P2 options at the facility.

Thirty-five EPA and state staff attended "P2 in the Dairy Industry," a P2 technical seminar presented on July 25 by Charles Conway of NEEAT and two VT DEC staff, John Jewett and Paul Olander.

Abby Swaine and Jack Healey of NEEAT conducted a one-day course on Effective Communication and Conflict Resolution at the Millbury MA DEP training center on June 26. The audience consisted of supervisors and staff from municipal and industrial NPDES operations. EPA will offer this course next September in Burlington, VT.

Mary Dever (NEEAT) is participating in the new Regional Advisory Committee for Auto Repair Assistance, comprised of representatives from state P2 programs, the Automotive Services Association (ASA), community groups, and EJP2 grant recipients currently working on automotive compliance and P2 projects. The Committee's first project is to develop a survey for auto shops to evaluate the accessibility and effectiveness of compliance and P2 tools. Survey results will help the Committee prioritize projects and tool development/distribution according to expressed needs of auto shops. Mary also continues to provide technical assistance to municipal officials on auto-related compliance and P2 issues.

Mary Dever (NEEAT) joined the State and Regional Workgroup for the National Automotive Compliance Assistance Center. The workgroup is comprised of about 20 members of state, local and federal programs that provide compliance assistance in the automotive industry. A purpose of the workgroup is to provide a forum for soliciting feedback on tools to be shared among workgroup members and to be provided via Greenlink -- an on-line and fax connection to request and receive automotive compliance assistance.

EPA-CSI has just issued a grant to the Northeast Resource Recovery Association to conduct a "Pilot Consumer/Community Residential Collection of End-of-Life Electronic Equipment" in two New York communities.

NEEAT member Andy Miniuks will be overseeing a Headquarters contract to organize a vendor trade show/demonstration of P2 technologies for electroplaters in Nizhnii Tagil, Russia this Winter.

In June, Chris Jendras issued the second NEEAT newsletter Pollution Prevention and the Bottom Line. The bulletin was sent to over 350 businesses & municipalities.



Linda Darveau of NEEAT attended the P2 Trade Association Symposium held by EPA Headquarters in Washington in June.

Lee MacMichael of NEEAT responded to 111 requests for information and assistance generated at NEEAT's assistance clinic at the New England Environmental EXPO in May.

**For more information contact:** Abby Swaine, EPA Region I (617) 565-4523.

## EPA REGION II

Region II reorganized on July 21. Under the reorganization, a Pollution Prevention Team has been created in the Strategic Planning and Multi-Media Programs Branch, which in turn is in the Division of Environmental Planning and Programs. The Team will be in the same Branch as the Environmental Data and the Strategic Planning Teams. This should facilitate Region II's ongoing efforts to measure P2 and to incorporate it into all of their programs.

On May 15-17, New York State held its ninth annual P2 conference. Two sessions were held that focused on Region II recipients of Pollution Prevention Incentives for States. Among the sessions' speakers were Thomas Hersey, of the Erie County Department of Environment and Planning, Judy Jakobsen of the Suffolk County Water Authority and Stephen Frantz, of the New York State Department of Health.

On June 18 and 19, Earth Day New York convened the second annual "Building the Sustainable Economy" conference. The event, which was held at the New School in New York City, had participants from all over the world speaking on issues from architecture and real estate development (this year's foci) to paper use reduction and the food supply. Region II staff participated on panels, discussing the Agency's P2 grant programs, the Common Sense Initiative, Green programs, Project XL, and Brownfields.

The New York State Department of Environmental Conservation held three workshops in May through a grant from Region II to promote membership in the WasteWi\$e program. WasteWi\$e is a voluntary program for businesses to create partnerships with EPA. WasteWi\$e members are required to set goals to reduce waste generation, increase buy/manufacture recycling activities, and create or expand upon existing recycling

collection programs. Following an explanation of the mechanics and benefits of the program, attendees participated in an interactive case study exercise featuring goals accomplished by NYNEX and the Eastman Kodak Company through WasteWi\$e. The workshops were held at the Ninth Annual Pollution Prevention Conference in Albany, the offices of NYNEX in New York City, and corporate headquarters of Eastman Kodak in Rochester, New York.

In early July, several Region II and New Jersey State representatives accompanied representatives from New Jersey Department of Agriculture (NJDA), North Jersey Resource and Development Council and Rutgers University on a tour of New Jersey farms that are part of the integrated crop management (ICM) project NJDA is implementing with Region II grant support. NJDA has been able to document reductions in pesticide and fertilizer application due to the implementation of this P2 program.

Two days of Green Lights Workshops are planned by Region II in cooperation with the Puerto Rico Energy Affairs Administration for October 1 and 2, 1996. This is a follow up to the Energy Affairs Administration joining Green Lights this past spring. The first day of the workshops will target the private sector and the second day will target the public sector, concentrating on Commonwealth and federal agencies. Instructors will be provided by corporate Green Lights partners, who operate upgraded Green Lights facilities in Puerto Rico.

**For more information contact:** Janet Sapadin, EPA Region II (212) 637-3584.

## NEW P2 PUBLICATIONS

### New P2 Publications at NEWMOA's P2 Clearinghouse

Development of a Membrane Based Process for the Treatment of Oily Wastewaters. August 1995. Available from NTIS, (703) 487-4639.

Nonprocess Solvent Use in the Furniture Refinishing and Repair Industry: Evaluation of Alternative Chemical Strippers. February 1996. Available from NTIS document # PB96-153416, (703)487-4639.

Protecting the Great Lakes: The Cost and Benefits of Reducing Toxic Pollution in Three Communities. Available from NTIS # PB96-164660, (703) 487-4639.



Environmentally Conscious Painting, June 1996.  
Available from the Kansas Small Business  
Environmental Assistance Program, (913) 296-6603.

Pollution Prevention Implementation Plan for Metal  
Manufacturers. Available from the Iowa Waste  
Reduction Center, (319) 273-2079.

New Documents Available from EPA's Pollution  
Prevention Information Clearinghouse (PPIC)

The following is a list of new publications available from  
PPIC; call (202) 260-1023 to order them:

Pollution Prevention Success Stories (EPA 742-96-002,  
April 1996). A collection of 26 fact sheets on P2 on  
farms, in schools, and within government organizations,  
as well as in the more traditional areas of manufacturing  
and operations.

"Pollution Prevention Incentives for States (PPIS) Grant  
Program Assessment Study" (EPA 742-R96-006, Spring  
1996). This report covers SRRTA and PPIS grants  
awarded from 1989 through 1993. Interviews were  
conducted with each grant recipient to catalogue the  
activities supported by the grant. This report covers the  
distribution of funds, the types of businesses and  
industry sectors the state programs targeted, how  
grantees measure effectiveness of their programs, and  
includes in-depth case studies of P2 programs in five  
states.

Environmental Accounting and EMSs: Pollution  
Prevention Review. Spring 1996 (8pp).

Incorporating Environmental Costs and Considerations  
into Decision Making: Review of Available Tools and  
Software. August 1995 (390 pp).

Environmental Accounting Case Studies: Full Cost  
Accounting for Decision Making at Ontario Hydro. May  
1996 (100pp).

New Jersey Partnership Agreement for FY 96. March  
1996 (151 pp).

New Jersey Environmental Partnership Agreement for  
FY 96 (Executive Summary). March 1996 (13pp).

Summary of Comments at the Public Meeting on  
Proposed Guidance on Acquisition of Environmentally  
Preferred Products and Services: Final Report. February  
1996 (28pp).

Partnerships In Preventing Pollution: A Catalogue of the  
Agency's Partnership Programs. May 1996 (53pp).

***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  
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The NE P2 Roundtable appreciates hearing  
comments and suggestions on the newsletter from the  
readers. Write us at the address on the back cover of  
the newsletter or call (617) 367-8558, 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. We appreciate your  
cooperation in ensuring that the mailing list is correct.

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## CALENDAR

Title	Sponsor	Date/Location	Contact
ELP Outreach Conferences	EPA Region I	Sept. 25--So. ME Technical College, Portland; Oct. 9--MIT, Cambridge; Oct. 16--American Int. College, Springfield	(617) 565-1002
Annual Meeting & Metal Finishing Workshop	AESF, Merrimac Chapter	Oct. 1, 1996--Sheraton Portsmouth Conf. Center	(603) 862-4344
Reducing Waste & Preventing Pollution in Marinas & Boatyards	SHWEC Video Conference	Oct. 8--Locations in the Region	(800) 462-0876
Cleaner Communities: A Workshop for Businesses & Municipal Officials	MA OTA	Oct. 9--Holyoke, MA	(617) 727-3260
Grease Reduction Workshop	MA OTA	Oct. 16--Newburyport, MA	(617) 727-3260
MA Water Conservation Workshop	NBEN	Oct. 17--Middlesex Community College, Bedford, MA	(508) 557-5475
22nd Mr. Clean Conference	MA TURI, MA OTA and MA DEP	Oct. 16-17, 1996 -- Hawthorne Hotel, Salem, MA	(719) 495-3057
P2 & Watershed Tools on the Internet	NBEN	Oct. 22, 24, 28, & 29--Shawsheen VoTech High School, Billerica, MA	(508) 557-5475
1996 RI Pollution Prevention Conference and Expo	RI DEM	Oct. 23-25--RI Convention Center, Providence, RI	(401) 277-3434
11th Annual Conference on Pollution Prevention	ConnTAP/CAMF	Oct. 29-- Four Points Hotel, Waterbury, CT	(860) 241-0777
Measuring Progress Towards Sustainable Development	UETP-EEE	Nov. 4-7--Sunderland, UK	(358)-0-2291-2959
NH Water Cons. Workshop	NBEN	Nov. 6--Conservation Center, Concord, NH	(508) 557-5475
Forum on Best Man. Practices	NBEN	Nov. 15--Raytheon Co., Lexington, MA	(508) 557-5475

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