

NORTHEAST STATES P2 ROUNDTABLE

Newsletter Format

At the last NE States P2 Roundtable meeting, several participants asked us to change the format of *NE State P2 News* and include a feature article that focuses on a topic concerning state and local P2 program activities in addition to agency updates. For example, we plan to include feature articles describing state and local efforts around P2 training and program evaluation in future issues. We are experimenting with this format in this issue of the newsletter and would like to hear from readers on whether you like the addition.

For a number of years, the NE States P2 Roundtable has actively assisted states in training regulatory program staff in P2 concepts and methods. The Northeast states have elevated these and other integration efforts to a high priority for the future. There are a number of exciting changes underway that participants will discuss at the NE Roundtable's meeting in May. This newsletter presents a feature articles on some of the states' efforts in this important area.

New Guide

In preparation for the Summit meeting and workshops for state and local environmental and energy assistance programs that took place in February, NEWMOA prepared a *Guide to Energy and Environmental Assistance Programs in New England*. The Guide and meetings were sponsored by EPA Region 1 and the Department of Energy.

The purpose of the Guide is to improve

networking among environmental and energy assistance programs in New England. The Guide contains descriptions of over 90 federal, state and local programs involved in providing help to businesses and communities in the region. These include pollution prevention technical assistance, recycling assistance, compliance assistance, energy conservation assistance, Clean Air Act small business assistance, NIST manufacturing extension partnership, financial assistance, environmental business development assistance, small business development, and export assistance programs. The programs listed in the Guide are affiliated with state, local or federal government agencies or are substantially supported by government funds. NEWMOA has a limited supply of free copies of the Guide. Contact the NEWMOA office if you would like to order one.

For more information contact: NEWMOA
(617) 367-8558.

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FEATURE ARTICLE

Integration of P2 Into Regulatory Programs: Examples from the Northeast

The Northeast States P2 Roundtable recently conducted a survey of seven northeast states to identify their current efforts to integrate P2 into regulatory programs. The purpose of the survey was to provide background information for an upcoming NE States P2 Roundtable meeting in May. The survey covered state efforts to integrate P2 into inspections, permitting, rulemaking, enforcement, agency reorganizations and other activities.

Based on the responses from CT, ME, MA, NH, NY, and VT, the survey found that these states are actively pursuing a variety of initiatives in P2 integration. The survey results showed that MA, NH and NY are involved in P2 integration in all of the areas covered by the questionnaire. VT is involved in integrating P2 into all of the regulatory areas except enforcement.

P2 integration is underway in five of the six states in inspections and agency reorganizations. Integration of P2 into inspection programs appears to be area that has been underway the longest in the states. In general the states report good results with these efforts. The programs have trained inspectors and developed inspection protocols and checklists.

Integrating P2 into rulemaking appears to be a new effort for the states. They report great challenges in this area, including a lack of guidance and the complexity of the existing regulations. States also indicated that it is too early to develop any conclusions from these efforts.

Integration of P2 into permits is also presenting significant challenges for the Northeast States. This is also a relatively new area of activity. States report that certain regulations, lack of guidance and requirements, training, and lack of time were reported as significant barriers to integration of P2 in permits. Most of these efforts are too new to

have any results to report.

The leadership in most state environmental agencies are extensively involved in reorganizing divisions and staff positions. Several of these efforts have been driven by a desire to move the agencies toward a more multi-media structure with P2 as a high priority activity. This has taken the form of establishing divisions dedicated to multi-media P2 integration, establishing coordinators within each bureau to coordinate P2 activities, or forming a team within a P2 office that is dedicated to integrating P2 into various regulatory activities.

The following sections provide detailed examples of the P2 integration efforts underway in CT, NH and NY.

CONNECTICUT

The CT DEP's Air Bureau project with CT TEC Industries was described in the Winter 1996 newsletter. The participants in the project--DEP, EPA and CT TEC are currently attempting to identify barriers to the implementation of pollution prevention technologies and strategies.

The CT DEP's Waste Bureau is actively promoting pollution prevention activities. For example, the Waste Bureau includes the implementation of pollution prevention strategies in its enforcement settlements and its Supplemental Environmental Projects (SEP) program. During routine inspections, Waste Engineering and Enforcement Division (WEED) inspectors are providing companies with pollution prevention information packets. WEED inspectors also distribute pollution prevention related questionnaires to company representatives. The completed and returned questionnaires provide the Department with baseline information on facility's pollution prevention programs.

The DEP's Water Bureau has included pollution prevention strategies and best management practices in its series of general permits for such industries as printing and vehicle repair. During routine inspections, water compliance inspectors also disseminate pollution prevention information, offer pollution prevention ideas and provide inspected facilities with surveys about company pollution prevention

practices and programs. The CT DEP's Air Bureau has established a project in partnership with industry and the EPA to identify barriers to the implementation of pollution prevention technologies and strategies.

NEW HAMPSHIRE

The P2 Coordinator at NH DES has initiated a project to assist the rulemaking staff in the Air Resources Division to examine ways to incorporate P2 into proposed and revised NH regulations. The project is in the formative stages and is expected to continue for at least the next several months.

NH DES regulatory programs are continuing to refine the procedure of including pollution prevention referral language in "Letters of Deficiency" (LODs). A LOD is a "warning" letter sent to a company for minor hazardous waste management violations. The use of this procedure has resulted in a number of referrals for on-site pollution prevention assessments.

The NH DES P2 Task Force has continued to work on the issues surrounding implementation of multi-media efforts in inspections and permitting. Some examples of possible initiatives include: (1) a multi-media inspection program targeting drycleaners; (2) developing mechanisms for programs to coordinate pre-inspection and post-inspection activities across program lines; and (3) developing an "inspectors day" program to provide P2 and cross-program training for inspection staff.

The Department continues to explore opportunities to incorporate P2 in Supplemental Environmental Projects (SEPs). DES is considering a project to develop a policy on the use of SEPs. The Department's P2 Coordinator will participate on the policy development workgroup should the Senior Management Team give approval for this project.

The Agency's P2 staff are working with hazardous waste permitting staff to incorporate P2 language into transmittal letters for hazardous waste Limited Permits (previously Permit-by-Rule). The language will be similar to the language used by regulatory programs in their Letters of Deficiency and is intended to encourage permit applicants to consider P2

options.

DES P2 staff will also be working with the administrator of the Department's Public Information and Permitting Unit to incorporate P2 materials into the permit application package for all applicable DES programs. In addition, P2 staff will now be participating in DES pre-application meetings with facility owners that are planning to build or modify a facility in NH, or expand operations at an existing location.

NH Senate Bill 133, An Act to Establish a Pollution Prevention Program in the Department of Environmental Services passed the legislature in the 1996 session. The bill directs DES to: formally establish a pollution prevention program for the Department and integrate P2 throughout the Department's activities; establish a compliance and pollution prevention assistance program for small businesses; and create and fund two positions to carry out the provisions of the bill. The bill also contains a confidentiality provision for businesses that voluntarily request technical assistance. Funding for the program and positions will come from the state Hazardous Waste Cleanup Fund.

DES P2 and regulatory staff are participating in a pilot project lead by UNH to provide assistance to metal-finishing facilities in NH. The project is called Compliance Leadership Through Environmental Assistance and Negotiation (CLEAN). Many details still need to be worked out, but the intent of the project is to offer joint compliance and pollution prevention assistance to companies who voluntarily sign on to the program. If violations are uncovered during the assessment phase and certain criteria are met, a company who is in the program may be offered enforcement relief as they move towards compliance.

New York State Department of Environmental Conservation

Like most states in the county, New York State has a myriad of environmental laws that focus on enhancing the quality of the air, water or land or managing a specific solid or hazardous waste. At the time each statute was passed, industrial releases of pollutants were, for the most part unregulated and were contributing significantly

to environmental degradation. In general, these releases resulted from manufacturing processes that were developed with little or no attention to their environmental impact. Once enacted, each law required industry to install treatment systems to remove pollutants contained in releases, as a means to improve the quality of a specific environmental medium. The regulatory structure that developed from these statutes is essentially a matrix of uncoordinated, disjointed requirements with which industry must comply at the same time that it continues to provide products and services in an increasingly competitive market place.

In recognition of this, NYS DEC initiated an integrated facility permit pilot program with the goal of developing a comprehensive inventory of regulated activities at a facility and promoting pollution reduction. In August 1995, a Memorandum of Understanding (MOU) entered into by General Electric--Waterford and DEC included a Multimedia Pollution Prevention Oriented Permitting Pilot Project. This cooperative initiative focuses on developing a comprehensive inventory of regulated activities at the GE facility and evaluating the merits and feasibility of promoting pollution prevention through an integrated facility permit process. The pilot project examines ways to streamline the permit process and to fully incorporate pollution prevention planning in the permit process. An objective of this pilot is to evaluate the effectiveness and efficiency of developing an integrated facility permit with one expiration date for all permitted activities.

In February 1996, the NYS DEC approved a report on the project. General Electric will submit a final report assessing the benefits and shortcomings of the pilot project and making recommendations for improving the current permitting system.

CONNECTICUT UPDATE

CONNECTICUT DEP

Printers Partnership Initiated at Meeting

Printers, industrial laundries whose customers include printers, printers associations, consultants and DEP met to kick off a partnership to train printers on key environmental regulations and P2 strategies. The project is funded through a PPIS grant from EPA. The next step is a Printers Partnership training workshop scheduled for June 26, 1996 in Meriden. Partnership participants have identified shop towel handling, environmental regulations applicable to the industry, new products, ink management and promoting the use of recycled paper as potential workshop topics. Skills training at the workshop will also include team building and how to conduct environmental assessments. Call David Westcott at (860) 424-3297 for more information.

Hartford Neighborhood Earth Day -- 1996

Over 200 adults and children attended a Hartford Neighborhood Earth Day Conference on Saturday, April 27, 1996. Participants were welcomed by representatives of CT DEP, co-sponsoring community groups and the US EPA. The conference was part of the Hartford Neighborhood Environmental Project, a partnership of the DEP's Office of Pollution Prevention and two city neighborhoods, which is funded in part by an EPA grant.

Neighborhood environmental committees developed the workshop topics. Panelists presented environmental information to residents and answered their concerns about lead paint poisoning prevention, pollution from construction and demolition waste and how to turn vacant lots into parks and gardens. Children listened to and made music from recycled and other "found materials" like plastic pipes with performer Dennis Waring.

The day was capped with presentations of awards to student winners of the Hartford Earth Day Poetry and Poster Contests. Smoky the Bear awarded 20 student winners a specially designed Hartford Earth Day T-shirt and a bookbag made from recycled plastic.

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

**Northeast State Prevention
Prevention News**

Northeast States Pollution

Prevention News is published on a quarterly basis by NEWMOA's P2 program, called the Northeast States P2 Roundtable. It is provided free to the northeast states, EPA and other interested individuals. The newsletter is supported by funds from EPA-New England and Region II and the northeast states.

NEWMOA appreciates hearing comments and suggestions on the newsletter from our readers. Write or call NEWMOA at the address on the back cover of the newsletter. 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 we have your correct address.

CONN TAP

ConnTAP will be represented at a meeting with the CT DEP and the EPA NEEATeam to discuss Connecticut environmental regulations that impact the state's printed wire board (PWB) manufacturers. The Design for the Environment program previously addressed this issue at the national level with the issuance of an EPA guidance manual. The Agencies anticipate that a complimentary guidance manual will be developed, which addresses PWB industry regulatory concerns at the state level.

ConnTAP is teaming with the CT DEP's Small Business Assistance Program (CT-SBAP) to perform a project aimed at demonstrating the effectiveness of partnering in the delivery of technical assistance to small metal finishers in Connecticut. ConnTAP and CT-SBAP will jointly provide compliance and pollution prevention assistance to small businesses with metal finishing operations that have less than 50 employees. The project will commence in July.

ConnTAP's transition to INMAGIC library software is nearing completion. The following phases have been completed:

- New library computer has been purchased with needed disk space;
- Inmagic for Windows (i.e. DB/TextWorks) has been loaded;
- HP 4c flatbed color scanner has been purchased to allow for scanning of document tables of contents/indexes into Inmagic search fields;
- Old library database has been converted to Inmagic;
- All new acquisitions have been loaded;
- Scanning has been completed for all documents, as needed, published in 1990 or later; and
- All library documents have been re-labeled.

Remaining work includes scanning of document tables of contents/indexes published prior to 1990, as well as configuring a database for periodicals. This effort will continue throughout the summer.

The Spring 1996 issue of the *ConnTAP Quarterly* was published in April. The newsletter presented an article on lessons learned from the first four years of the ConnTAP Site Visit program. The article also acknowledged the site visit team's 100th visit. Also in the newsletter were articles concerning:

- a cable manufacturer's P2 efforts; an interview with production workers at Ansonia Copper & Brass Co.; and
- an announcement of the formation of the Connecticut Business Pollution Prevention Roundtable.

Mixed Wastewater Reuse and Recycle Feasibility Study, a recently completed Matching Challenge Grant project report, is now available from ConnTAP. The report highlights a metal finisher's water conservation efforts.

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

MAINE

ME DEP

ME DEP's P2 program now has a new name! The former Maine Office of Pollution Prevention is now the Office of Innovation and Assistance. Their duties and responsibilities will remain the same.

Governor's P2 Awards

The Governor's P2 Awards were awarded on May 7, 1996 to ten companies and one individual. The combined projects represented literally hundreds of thousands of pounds of pollution prevented. They ranged from installation of closed-loop systems to KAISAN events where changes were made instantly on the shop floor. The Office has a brief write-up on each project, available upon request.

Maine DEP has three EPA Environmental Leadership Projects underway, for which the P2 program is the State Coordinator. The companies involved are Maine Recovery, a waste to energy plant; International Paper; and Bath Iron Works, builder of Navy ships. All three have signed on to third party audit projects, and Maine Recovery is also doing a monitoring project.

The ME DEP printing project is getting underway, with the help of the Printing Industry of New England (PINE). The Agency sent out a survey to all print shops in Maine, asking about their environmental information needs and their present management practices. In addition, PINE is providing in-depth industry training to 30 DEP staff and will assist DEP multi-media teams on five print shop P2/compliance assessments. DEP's plans are to do up to twenty assessments and to create a simple environmental handbook specifically for printers.

Introductory P2 Training

Training is continuing for DEP staff, with almost 100 people already trained in P2 basics and more on a waiting list. Evaluations have been positive, and the P2 staff plan to start more in-depth training by the end of the summer.

Model Facility Program

The Department is also developing a Model Facility Program for gasoline/auto repair stations. A booklet of compliance and P2 opportunities is in the final stages of writing and applications for model facility status are under development. The target date for the program to be up and running is this summer.

For more information contact: Ann Pistell, ME DEP (207) 287-7881.

MASSACHUSETTS

MASSACHUSETTS OTA FOR TUR

Common Sense Initiative

OTA Assistant Director Rick Reibstein is the chairman of a workgroup called "Overcoming Barriers to P2 and Recycling," which is part of the national CSI subcommittee for the electronics industry. The workgroup has been successful in getting a policy out to electronics firms that leads to recycling of spent lead waste that previously was routinely disposed of as a hazardous waste. The group is also working on barriers to recycling electronic products and to zero water discharge.

George Frantz is participating in the Flexible Permits Workshop of the national CSI subcommittee on the printing industry. In early May, George made a presentation to the subcommittee on a proposed design for a multi-media permit based in part on the Massachusetts Printers Partnership and the Minnesota Registration Permit aimed at non-major air emissions sources. A separate model for larger and above major sources is being developed, loosely based on the EPA's new Plantwide Applicability Limits (PAL), which are described in EPA's New Source Review program report.

NICE3 Awards

OTA's technical assistance in preparing a grant proposal to the National Industrial Competitiveness Through Energy, Environment and Economics (NICE3) program paid off for Brittany Dying and Printing Corp., a New Bedford fabric finisher. The company has been

awarded approximately \$425,000 to use an innovative textile finishing technology that will double current equipment speeds and provide waste, energy and cost savings. Identification of this project was an outgrowth of the work OTA and the MA Coastal Zone Management (CZM) office have been doing in New Bedford through an EPA grant for industrial P2 in Buzzards Bay.

In addition, representatives from OTA and the MA Division of Energy Resources (DOER) will receive a Management and Communications Award from the U.S. Dept. of Energy in recognition of the high quality of annual NICE3 proposals submitted by Massachusetts firms. OTA and DOER together provide technical assistance and coordinate annual submission of project proposals from Massachusetts companies to this national program.

Clean State Initiative

OTA is continuing to work with the Executive Office of Environmental Affairs (EOEA) on the Clean State initiative. OTA staff helped EOEA develop guidance on developing P2 plans for state agencies, and subsequently helped review the plans. Twenty-five state facilities were visited by a multi-agency team, and individual letters with recommendations for P2 and improved environmental management opportunities at each one are being prepared. An overall project report with general recommendations is also being prepared. In addition, OTA is working with EOEA on developing a full training program for agencies, and some training workshops have already occurred.

Governor's 1996 TURA Awards

OTA staff helped plan the annual Governor's Awards for Toxics Use Reduction that were presented during a luncheon in Boston on May 15. The winners, selected by the Awards Committee of the Toxics Use Reduction Advisory Board, include:

- MWRA/MASCO Hospital Mercury Work Group - A public-private partnership led by the Mass. Water Resources Authority.
- The Robbins Co. - (See "New OTA Case Studies" below for details of the company's

accomplishments.)

- GTE Government Systems of Taunton, a manufacturer of printed circuit board assemblies and machined aluminum parts for the Dept. of Defense (DoD) communications equipment. GTE won approval of to use Armakleen E - 2000, an environmentally benign cleaner, as a substitute for a solvent-based cleaner, setting the stage for other defense contractors to switch to environmentally benign cleaners.

In combination, the 68 applicants for the Governor's Awards since 1994 have reduced toxic chemical use by 5,500 tons; reduced hazardous waste generation by 4,100 tons; saved more than \$13 million in chemical purchases and avoided disposal, regulatory, and other costs; and conserved more than 440 million gallons of water saving nearly \$3 million in reduced water use.

Ongoing Projects

Among other things, OTA staff is continuing work on the following:

- Overall TURA program evaluation in coordination with TURI and DEP.
- The Massachusetts Printers' Project (MP2) in conjunction with DEP, the Printing Industries of New England (PINE) and EPA-New England. After co-sponsoring introductory workshops and technical assistance clinics for printers in the first quarter of 1996, the sponsoring agencies are now working with suppliers to the printing industry to educate them about the project so they can help meet their customers' needs. George Frantz is the leader on this project.

New Case Studies

OTA has published three new case studies about Massachusetts companies that have successfully implemented toxics use reduction techniques. These include: • Howard H. Sweet and Son, Inc., a jewelry manufacturer in southeastern Massachusetts, who eliminated the use of TCE and Freon, and reduced the use (by 90 percent) and emissions of cyanide, and ended the emission of nitric and sulfuric acid by using the spent acids as pH adjusters in wastewater neutralization. As a result, the company has been reclassified as a "very small quantity generator" of hazardous waste and saves an estimated \$40,000 annually.

- The Robbins Company of Attleboro who over the years has continued to refine its casting, stamping, grinding, polishing, annealing, plating, coloring and coating operations to incorporate pollution prevention opportunities. As a result of ongoing efforts that began in the mid-1980s, The Robbins Co. has reduced the use of chemicals in wastewater treatment by 99 percent, reduced hazardous waste generation by 99 percent, and cut water use by 98.5 percent. These reductions have saved the firm more than \$100,000 annually and relieved the company of reporting requirements under TURA and EPCRA.

- A testing laboratory that used source reduction techniques to reduce the amount of mercury entering its wastewater treatment system by 90 percent. These changes, in combination with enhanced treatment to remove the residual mercury, permitted the company to comply with emissions standards set by the Massachusetts Water Resources Authority (MWRA).

Several more case studies are in the works and are scheduled to be published in the fall.

Upcoming Conferences

OTA staff is preparing for conferences and workshops scheduled for May and June, including:

- "Coatings for the Environment: The UV Cure," scheduled for Thursday, May 23, 1996. This session is sponsored in conjunction with the Rad Tech Foundation. The agenda includes a morning session on ultraviolet chemistry and curing technologies, and afternoon breakout sessions on UV applications for web and sheet fed coating operations and three-dimensional parts coating. Ken Soltys, Northeast Team Leader, is the leader on this project.

- A workshop on environmental assistance programs for municipal officials and companies in the towns of Burlington and Bedford on Wednesday, May 29. OTA's Metro Team is organizing this event in conjunction with the Burlington Health Agent and will also present on OTA's services.

- "Regulations, Incentives and the ISOs: Making the Connections" is scheduled for Thursday, June 6, 1996 at the Needham Sheraton.

The conference is designed to explain how companies can take advantage of the overlapping requirements for developing a TURA plan and getting certified for ISO 9000 or ISO 14000, as well as take advantage of incentive programs offered by the EPA and OSHA. Co-sponsors include TURI, MMP, the Associated Industries of Massachusetts (AIM), the American Society for Quality Control (ASQC), the Northeast Business Environmental Network (NBEN) and DEP. Joe Paluzzi, a member of OTA's Metro Team and a quality control specialist, is the chief organizer of this conference.

For more information contact: Cynthia Barakatt, MA OTA (617) 727-3260.

MASSACHUSETTS DEP

Preventing Auto Emissions

As part of DEP's plan for how Massachusetts will meet federal air quality standards for ozone precursors and other pollutants, DEP promulgated regulations in 1991 that led to the creation of a High Occupancy Vehicle (HOV) lane on the Southeast Expressway. This "zipper lane," which opened in November 1995, consists of a moveable barrier that borrows a lane from the off-peak direction during rush hour. Only vehicles with a minimum of three occupants are allowed to use the lane. The lane is open to vanpools, buses and carpools.

Thus far, the zipper lane appears to be successful at preventing some air pollution. The lane currently carries the same number of people as a regular lane but via roughly six percent of the vehicle traffic, and the number of high occupancy vehicles using the lane has been growing steadily. Recently, the average number of vehicles has risen to 350 during the busiest hour of the peak period, with the number of carpools doubling since the lane opened in November 1995. By the end of the

year, use of the lane is expected to increase to the

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 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) a clearinghouse of information (2) training sessions (3) source reduction research and (4) NE Roundtable meetings and committees. NEWMOA's P2 program is supported by grants from the U.S. EPA and by NEWMOA member states.

lane's projected target capacity of 700 HOBs per peak hour year-round. As an added benefit, the zipper lane has resulted in significant reduction in travel time; HOV commuters can save as much as 30 minutes each day by riding in this lane.

DEP TURA Package

The 1995 *TURA Reporting Package* (Form S Guidance) was completed this month. This document contains guidance and instruction to facilities who are required by the TURA statute to file annual reports (Form S) detailing their use of toxic chemicals. The form is being sent to 3000 customers, 460 TUR planners, members of the TURA Administrative Council, the TURA Advisory Board and other interested parties. The data gleaned from Form S reports along with the Federal Form R are the framework for TURA planning and the Department's annual data release summarizing statewide toxic

chemical use.

DEP/TURA has also released the *Plan Update Guidance* instructing Toxic Use Reduction Planners on the revision of their TURA Plans required by the law. In conjunction with MA OTA and TURI, five TURA Plan Update/Form S training sessions were conducted throughout MA. Instructions were given on plan update requirements, changes in format and new chemicals that need to be reported. These training sessions were well attended and well received by over 250 representatives from the regulated community.

DEP/TURA administered the Certification Examinations for Toxic Use Reduction Planners (TURPs) to thirty potential planners in May. This will boost the number of TURPs to over 500. This month, DEP/TURA issued a *Directory 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.

MASSACHUSETTS TURI

Education & Training

TURI Education and Training staff made presentations at two environmental policy classes sponsored by MIT on the Toxics Use Reduction Act and Toxics Use Reduction Planners.

Staff also presented two multi-process garment wet cleaning workshops dry cleaners in early May. The Toxics Use Reduction Planners were invited to a one-day continuing education workshop on April 25, 1996 in Bedford. The workshop provided five training modules where planners were able to earn credits toward their recertification. The five modules included: Integrating TUR into Compliance with the Clean Air Act, Financial Analysis for TUR Planning, Electroplating & Metal Finishing Industry Specific Session, In-House Teambuilding for TUR Planning and Using Internet Resources to Discover New TUR Options.

A TURP Course Refresher was offered in April to prepare the 24th and 25th TURP Classes for the Toxics Use Reduction Planner

Examination to be offered by the Massachusetts DEP in May.

During the month of January, TURI staff conducted a vocational education course on toxics use reduction for eleven displaced workers interested in developing competency as environmental technicians. The course was conducted in collaboration with the Minutemen Vocational School in Lexington.

The Winter 1996 edition of *TURP Talk* included an update on the Toxics Use Reduction Planners Association activities. This section will be a permanent addition to *TURP Talk*. The newsletter is dedicated to providing articles of interest to planners and a forum where planners may share experiences in developing and updating plans. The next *TURP Talk* will be published in April.

Research

The Massachusetts Toxics Use Reduction Program's Science Advisory Board has to date recommended to the Program's Administrative Council to delist six chemicals: copper, cobalt, nickel, chromium and manganese (as components for alloys), and chromium (III) oxide. The Board, which was established by the Massachusetts Toxics Use Reduction Act, provides consultation to TURI on additions and deletions of chemicals to the TURA Program's chemical list.

The first round of the Cleaner Technology Demonstration Sites Program began in April with a kick-off program at Cranston Print Works in Oxford, Massachusetts. To date, twenty-six visits are planned at the five participating companies from May through October. The participating companies are Cranston Print Works; Danaher Tool Group, Springfield; Lockheed Martin Defense Systems, Pittsfield; Metallized Products, Inc. Winchester; and, Utopia Cleaners, Arlington.

In addition to performing routine, cleaning trials for Massachusetts-based companies, TURI's Surface Cleaning Laboratory continues to hold periodic workshops and frequent visitors' tours. An outreach program is underway to assist businesses in Burlington through that town's Board of Health. Over the past several months, the laboratory staff's

outreach activities have also included presenting cleaning technology papers at two conferences and writing articles for two industrial magazines. In addition, the laboratory conducted a cleaning degreasing workshop for toxics use reduction planners and others in January.

TURI staff is working with the University of Massachusetts Lowell's Center for Environmentally Appropriate Materials on several research projects including evaluating acid recycling technology, evaluating health effect from UV coating technologies, and evaluating effervescent spray technologies. In addition, technical evaluations are being conducted on cyanide free plating and distillation and evaporation technology to recover and recycle metal finishing and electronics process chemicals.

Technical Support

The Northeast Business Environmental Network (NBEN) will host a discussion group on Environmental Management Systems (EMS) and management practices as they are used by NBEN companies.

Outreach

The five project funded through TURI's Toxics Use Reduction Networking Grants Program (TURN) are now underway. Activities undertaken to date through the program have included the establishment of a community environmental committee, a business/community forum on toxics use reduction and several workshops on toxics use reduction for community residents. The grant program is designed to foster partnerships between community residents, industry and government. A second round of Requests for Proposals for the TURN Grants program is scheduled for distribution in early summer. TURI hosted three visits from international visitors during this Spring. The US/South Africa Binational Commission Environment Working Group, which was comprised of top level environmental leaders, were appointed by Vice President Gore and Vice President Mbeki of South Africa. The group also visited MIT and Howard University in Washington, DC. In addition, key environmental dignitaries from a dozen foreign countries visited TURI in April. Among the countries represented were Argentina, Brazil,

Israel, Pakistan and the United Kingdom. The delegation visited the US through an invitation from the US Information Agency. The third set of visitors came from Germany. These dignitaries represented environmental technology manufacturers and consultants along with officials from a German technology transfer institute. The group's focus was opportunities for international collaboration on the transfer of environmental technologies. Their visits was sponsored by TURI and the Northeast Business Environmental Network.

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

ENVIRONMENTAL INTEGRATION

PROJECT: *A Partnership Between OTA, TURI, DEP, the Massachusetts Manufacturing Partnership and Bay State Skills Corporation*

The Massachusetts Manufacturing Partnership (MMP) of Bay State Skills Corporation provides statewide and local access to customized manufacturing, technology, and business services for small and medium-sized manufacturers.

Through the Environmental Integration Project, TURI, OTA and the Massachusetts DEP add pollution prevention expertise to MMP's array of services, while MMP provides these organizations with an opportunity to further integrate their services. Together, they identify potential clients for pollution prevention and manufacturing assistance, supply timely technical and project management services, and perform joint or individual projects to meet company needs.

The initial collaborative projects include manufacturers in the metal plating, coating, metal finishing, and plastics industries. They have conducted three training sessions for MMP field personnel and two workshops for manufacturers in these first months of the project. Upcoming events include an ISO 14000 workshop for manufacturers and an environment and safety expo/seminar for the paper industry, both scheduled in June. Project partners have also begun beta testing environmental assessment and benchmarking tools.

The Project is directed by a management team that meets monthly and consists of two senior representatives from each of the partner organizations mentioned above. MMP has hired Beverly Cadorette as Project Manager and Greg Geyer as technical specialist for this initiative.

For more information contact: Project Staff (800) 667-6347.

MWRA/MASCO Hospital Mercury Workgroup

This unique public/private partnership demonstrates that joint problem solving, pooling resources, research and technical assistance can produce creative solutions to bring the regulated community into compliance with environmental standards. The Hospital Mercury Workgroup, involving the active participation of 28 Boston-area hospitals, was formed to reduce daily influent loading of mercury to the MWRA system. The mercury, originating in substances that contain trace amounts of mercury used in research and diagnostic work, collects in organic material in piping systems and sloughs off into wastewater.

A Memorandum of Understanding with the MWRA suspended fines for non-compliance, providing immediate economic relief for some of the hospitals, in exchange for active participation in the Workgroup. The project established three subcommittees to identify sources of contamination, develop recommendations for their control, establish guidelines for removal of residual mercury from wastewater conveyance systems, evaluate potential mercury pretreatment systems, test products to assess their mercury content, and search for new mercury free products. This information was compiled in an *Infrastructure Maintenance Guidebook* and a comprehensive database of more than 5,500 products used in clinical and research laboratories that can be used by others experiencing similar problems with mercury discharges. This project has been so successful that in the first half of 1995 member hospitals' dailing influent loading of mercury has dropped by 70 percent.

Currently, the Hospital Mercury

Workgroup is involved with Phase II of the program. The Phase II Workgroup will build upon the findings of the initial group. The focus of Phase II will be on cost effective end-of-pipe treatment options combined with diligent mercury management. The results are intended to aid individual facilities in developing effective mercury discharge reduction programs. In addition, the Mercury Products Database is being updated and expanded. The MWRA will promote the results of the Workgroup, as well as individual cases, throughout the district in an effort to reach the overall goal of reduced loadings of mercury to the MWRA sewage treatment plants.

For more information contact: Les Zenack,
MWRA (617) 241-2347.

NEW HAMPSHIRE

NEW HAMPSHIRE DES

Androscoggin River Joint ME/NH P2 Initiative

NHPPP staff are participating in the Androscoggin River Pollution Prevention Technology Transfer Project, with Crown Vantage of Berlin, NH and the ME DEP. The workgroup has prioritized a list of forty potential P2 paper industry projects on which they would like to begin work. The P2 project list has been reduced to ten initiatives that met the team's criteria. The first project will involve a "spill and loss assessment" to reduce the loss of valuable pulp fiber while reducing the volume of waste discharging to Crown Vantage's wastewater treatment plant.

Somersworth Phosphorous Projects/Municipal Managers Project

NH DES, EPA-New England's Environmental Assistance Team-Municipal Sector, and the New England Interstate Water Pollution Control Commission continue work on two projects funded under the last round of PPIS grants. The first project focuses on a Somersworth POTW Phosphate reduction outreach program that targets probable domestic, commercial, and industrial sources of phosphates.

A large part of the project will introduce a citizen education component regarding "no" or "low-phosphate" cleaning products. Water quality tests are being analyzed and the group is investigating such sources of phosphate discharges as laundromats, car washes, institutions and restaurants. Surveys of commercial establishments were not conclusive, but did indicate use of phosphate-containing products in the restaurant and automotive service sectors. Several industries in Somersworth were able to voluntarily reduce the level of phosphates being discharged through pollution prevention.

The second project focuses on educating municipal officials about their environmental compliance responsibilities, and the resources available to help them implement pollution prevention in their municipal departments. The survey, which was sent out to municipal officials, revealed interests in the areas of Drinking Water, Subsurface Systems, Landfill Closures, Recycling, Household Hazardous Waste, and Energy Conservation. Two workshops have been set up for July 16, 1996 in Keene and July 17, 1996 in Hanover.

Fourth Annual P2 Conference & NH Governor's Award

On April 1, 1996 DES, the University of New Hampshire, and others hosted the "Fourth Annual Pollution Prevention Conference" at the New England Center at UNH-Durham. This year, the newly established NH Governor's Award for Pollution Prevention was presented to three New Hampshire companies. Based on evaluation forms and feedback received during the day, the conference was successful and of value to New Hampshire businesses. This year's conference was at capacity with 170 attendees, speakers, moderators, vendors, and guests. Still ever-popular and well-attended were the basic pollution prevention sessions titled Pollution Prevention Assessment Tools and Financial Analysis of Pollution Prevention Projects. Newer sessions included Business Networking Opportunities; "Greening" Business Management; Risk Reduction and Health Benefits of Pollution Prevention; On the Road to Environmental Awareness Through Pollution Prevention; Pollution Prevention Resources on the Internet; ISO 14000 and Pollution Prevention; and Universal Wastes in New

Hampshire. Also new this year were three luncheon "breakout" sessions highlighting the 1996 Summer Pollution Prevention Internship Program, WasteCap's Interactive Tracking System (WITS) software program, and HADCO Corporation's new EPA "Project X-L" proposal for the streamlined de-listing of an F006 Electroplating waste stream. Public Service Company of New Hampshire provided an electric vehicle for display.

Resource Brochure for Businesses

A comprehensive brochure listing free environmental assistance resources for businesses and municipalities in NH was completed and is now being distributed. The brochure was created as a joint project of DES, the NH Business & Industry Association and other assistance organizations.

Model P2 Video Project for Metal Platers

Work continues on an outreach program entitled the "Model Pollution Prevention Practices Video Project for Metal Platers," which was initiated under a PPIS Grant received by the University of New Hampshire. The workgroup, comprised of representatives from the Department, EPA-New England, and private industry has been compiling information in preparation of a video that will be distributed to Metal Platers and other companies with similar processes. The group is now close to pulling together a complete script for the video and has been discussing video options with production companies. As envisioned, the video would focus on such topics as Good Operating Practices, Rinse Water Recovery, Concentrated Bath Maintenance, Solvent Alternatives, Resources Available, the various Benefits of Pollution Prevention, Cost Accounting, Waste Tracking, and Self-Assessment.

P2 Curriculum

The NHPPP is approaching the final stages of development of a curriculum for auto service programs at technical colleges and secondary schools. The curriculum is modeled after a Massachusetts guide, and has been modified according to the needs of New Hampshire schools. The NH Automotive Dealers Association (NHADA) and several regulatory staff at the Department have partnered

in this effort, and the NHADA has agreed to distribute future updates to the schools. The curriculum, which will be distributed to approximately 30 schools, comes complete with State regulations, video tapes, and color overheads.

On-Site Assessments

In the past few months NHPPP staff have conducted several on-site assessments at a small metal painting facility, a refurbisher of hydraulic components, a small manufacturer of audio jacks and panels, and a radiator repair shop. Much of the on-site work generated in the past year are a direct result of P2 referrals by regulatory staff in the media programs. Department regulatory staff have been doing an admirable job of promoting and integrating pollution prevention into their compliance duties.

NHPPP and Business and Industry Association WasteCap Program staff conducted a joint site visit at a manufacturer of plasma cutting equipment. This cooperative approach made the site visit unique. While the two programs often work together on a wide variety of projects, they have never been on site together until this effort. An additional feature to the visit was that it was done in conjunction with an Environmental Economics class from the Amos Tuck School at Dartmouth College. Several graduate students participated in the site visit in order to see how assessments were conducted and to carry out specific, industry-based class projects.

Pollution prevention recommendations made by NHPPP and WasteCap staff were forwarded to the three students assigned to the site to allow them to apply a full cost analysis. The students will present their results in late May.

Pollution Prevention Partnership (P3) and Summer 1996 P2 Internship Program

Members of the New Hampshire Pollution Prevention Partnership (P3) continue to meet despite the "official" ending of the original grant in March. Recognizing the value of such a collaborative effort, participants in the P3 have agreed to carry on in the promotion of pollution prevention in New Hampshire. Workgroups have been established to focus on the P3 objectives that include: 1) enhancing the awareness of achieving environmental

compliance through P2; 2) fostering the development of strategic partnerships, innovative programs and technical assistance to convey the P2 message; 3) promoting the social and economic advantages of P2 as a good management practice; 4) supporting the elimination of barriers to P2 in environmental legislation and regulatory activities; and 5) promoting the integration of P2 concepts into educational programs.

The P3's Pollution Prevention Internship Program is gearing up for the Summer 1996 Session. Eleven UNH Chemical Engineering students have gone through an 8-10 week Pollution Prevention Orientation Program (NHPPP staff were part of the training program) and are now ready to apply the knowledge gained to New Hampshire companies.

DES "Green Team"

The Department's new "Green Team," established under the NHDES - Pollution Prevention Strategy, has been hard at work on a number of important organization-wide initiatives. The "Green Team" currently has representatives from throughout the Department. Initiatives to date include: 1) establishing an on-site composting demonstration project; 2) evaluating the Department's procurement practices; 3) developing a "Green Tips" section in a department-wide employee newsletter; 4) sponsoring a "Clean Your Commute" Day; 5) setting up a surplus supplies cabinet; 6) starting an ink jet cartridge recycling program; 7) and promoting the sale of recycled content "EcoSpun" tote bags for Department staff.

"The Borderline Project"

DES has proposed a new project for funding by EPA that involves an outreach program for those companies close to a regulatory generator status threshold. In the hazardous waste arena, the New Hampshire "Full Quantity Generators" (generators of greater than 100 kgs/month of hazardous waste) will be provided assistance to help drop them down to the New Hampshire "Small Quantity Generator" or (SQG) status. SQG's would also be provided assistance to ensure they retain that status. This approach would also be utilized when addressing Air and Wastewater issues.

For more information contact: Vince Perelli,
NH DES (603) 271-2902 or e-mail:
perelli@deswmdpl.mv.com

NEW YORK

NEW YORK STATE DEC

A Department-wide task force has been formed to develop appropriate and meaningful environmental indicators to provide a clear picture on the state of the environment and a sound basis for assessing effectiveness of DEC programs. This effort will involve 1) identifying appropriate indicators, 2) identifying existing data sources that support use of those indicators and 3) identifying additional monitoring required to support use of the those selected indicators for which existing data do not currently exist.

Workshops

Pollution prevention seminars for local government and small businesses were held in February in Suffolk County and Westchester. These are part of a series that DEC holds in conjunction with Environmental Facilities Corporation, Empire State Development and local governments. The Suffolk County Water Authority and Brookhaven Labs were co-sponsors for the Long Island seminar. DEC will resume conducting these seminars beginning in the fall of 1996, with a schedule that includes nine locations across the state. Workshops for metal finishers, funded by a PPIS grant, were held in February in Jamestown and Buffalo.

The PPIS-supported outreach will continue in the Fall with three workshops for printers. DEC has obtained the downlink license for New York State for the "Green and Profitable Printing" teleconference to be broadcast in May. Arrangements have been made for six downlink sites, one of which is being set up as part of the Pollution Prevention Conference. Working with us on this event are Association of Graphic Communications, Industrial Technology Assistance Corporation, Graphic Arts Technical Foundation, Erie County Office of Pollution Prevention, Printing Industry Association of NYS, Empire State Development and the US EPA Region II.

P2 Conference and Award Winners

The Ninth Annual Pollution Prevention Conference, "Promoting Improved Performance," will be held May 15-17, 1996, at the Albany Onni Hotel. The Governor has agreed to present the Keynote Address and the Pollution Prevention Awards at a luncheon on the 15th.

The 1996 Pollution Prevention Award winners are: Winross Co., Inc., a small business that manufactures custom-order scale truck models and reduced hazardous waste generation through solvent recycling; Emsig Manufacturing Corp., a mid-size business that manufactures clothing buttons that switched to a closed-loop ultra-filtration system; and Harden Furniture, a mid-size furniture manufacturer that eliminated methanol and hazardous waste generation by switching to a new method of stain applications. Large business award winners include: Anitec, International Paper, Imaging Products Division for overall reductions in hazardous and solid waste and reductions in TRI emissions through source reduction projects; Bristol-Myers Squibb Co. for reducing emissions of methyl isobutyl ketone over 90 percent by switching to a closed centrifugation process for isolating Penicillin V; Hadco Corp. for eliminating 50,000 pounds/year of methylene chloride and 40,000 pounds/year of 1,1,1-trichloroethane by switching to aqueous-based solvents; and ITT Automotive Electrical Systems for eliminating 1,1,1-trichloroethane and other solvents that reduced annual air emissions from 600 tons to zero. The local government winner was the City of White Plains for their automotive energy efficiency initiative that resulted in an 80 percent reduction in emissions from the City's motor fleet. Cornell University won in the not-for-profit organization category for their transportation program that included a car pool incentive and subsidized transit system.

Comparative Risk

Two planning sessions have been held since January for New York's Comparative Risk Project, which will evaluate risks associated with toxic releases that can be addressed through DEC's pollution prevention program. A 16-member steering committee is about to be named that includes representatives from academia, industry, environmental and citizen groups, legislative staff, and other state agencies.

Dr. Arthur Upton, who was a member of the Science Advisory Board when the Reducing Risk report was developed, has agreed to participate on the steering committee. At the first formal meeting of the steering committee, the group will determine ground rules for the project and begin to select the issues to be evaluated and ranked. Workgroups will then be established to evaluate risks to human health, ecosystems, and quality of life; a public participation work group will also be set up.

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

RHODE ISLAND

RHODE ISLAND DEM

Brown University Project

DEM's Pollution Program recently completed a project with Brown University that involved conducting a hands-on course in industrial ecology. The course, Clean Process Technology, was developed through a grant from the P2 Consortium of New England Universities. The course was designed to give students a broad exposure to the technical tools and issues involved in the formulation and application of P2 technologies. The students in the class were divided into teams that focused on specific industry sectors including dry-cleaning, hospitality, autobody and hospitals. A DEM P2 staff person led each team of students through one or two pollution prevention assessments of businesses from the industry sector. By the completion of the project, Brown students had visited two commercial dry-cleaners, a full service hotel, a restaurant, an autobody shop, a vocational school, and a hospital. The students learned how to identify P2 opportunities and formulate possible money saving recommendations. The students' P2 recommendations and conclusions were presented orally and are now documented in final reports.

Autobody Project

Welcome to the autobody repair shop of the future... a recent *Providence Journal Bulletin* article announced, as it went on to describe the model shop portion of RI Auto Refinishing

Project. The EPA funded project is a collaborative effort among DEM's Pollution Prevention Program, the University of Rhode Island, and Davies, Jr. Career and Technical High School. This collaboration has researched, evaluated and demonstrated practical and cost effective toxics use reduction strategies in an effort to help small businesses stay in compliance, with both Air Quality Regulations and the OSHA health and safety regulations. The overall goal of this project is to institutionalize the most promising multimedia P2 strategies into local and regional auto refinishing shops through: 1) curriculum development with special emphasis on source reduction practices, 2) specialized job re-training for practicing professionals, and 3) technology transfer through actual demonstrations and information dissemination through conferences and fact sheets (e.g., how to calculate VOC's, how to properly operate HVLP spray guns)

Printers Video Conference

DEM's Pollution Prevention Program is hosting a satellite down link site for the May 17 broadcast of "Green and Profitable Printing: Practical Environmental Compliance and Waste Prevention for Lithographic Printers." In addition to the national broadcast, the conference will also address RI specific regulations, and P2 and recycling opportunities for lithographic printers.

Pollution Prevention Grants Program

The following FY-95 pollution prevention final grant project reports are now available: Metfab Sales & Service/Non-Cyanide Copper Plating, Rhode Island Marine Trade & Rhode Island Economic Development Corporation/Source Reduction in the Marine Industry.

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

VERMONT

VERMONT DEC

The Environmental Assistance Division is piloting a business recognition and certification program this spring and summer for

printers and vehicle service and repair facilities. The Vermont Business Environmental Partnership will offer two levels of recognition: the Environmental Partner and Model Environmental Facility. Both levels of recognition involve the adoption of core and elective standards related to environmental management and pollution prevention. The Model Environmental Facility recognition level also involves exemplary environmental compliance and a comprehensive pollution prevention program. Participating businesses at both levels will receive publicity through the DEC, a window emblem and certificate. Model environmental facilities will be eligible for regulatory flexibility in the future.

The Division is in the final stages of establishing a multi-media compliance assistance program for small businesses, with both an office-based and on-site assistance element that will be integrated with pollution prevention assistance. The program will initially be limited to one position dedicated to on-site compliance assistance and a shift in the duties of existing pollution prevention staff.

The Retired Engineers and Professionals (REAP) Program is currently concentrating on pollution prevention technical assistance to vehicle service and repair facilities in the Lake Champlain Basin through an EPA grant through the Lake Champlain Basin Program. About 20 facilities will receive on-site technical assistance during this fiscal year.

The following workshops are planned in the next several months: Waste Prevention for Small Wood Finishers (June 14, Randolph); Pollution Prevention Planning for Vehicle Service and Repair (June 5, South Burlington); Pollution Prevention and Environmental Management for Marinas and Boatyards (June 19, Colchester). Tentative P2 workshops in September include management of metal working fluids and pollution prevention for the travel and tourism industry.

The Division is undertaking a project with IBM in Essex Junction as part of the Environmental Leadership Project to explore the opportunities and barriers to incorporating pollution prevention into permits. A business survey is currently underway, and the Division is

facilitating meetings with all permitting and regulatory divisions to explore opportunities and barriers to incorporation of P2 into permits. VT DEC hopes that this process will lead to a department policy on P2 incorporation in permits and training for permit writers.

Pollution Prevention Planning Annual Progress Reports were received from about 80 percent of the 250 facilities required to plan. This rate of compliance is encouraging as the Agency moves to the second round of three-year plans that are due July 1, 1996.

The Division is coordinating the development of a Resource Conservation and Pollution Prevention Plan for the Agency of Natural Resources, which is targeted for a July 1 completion. The Division also coordinates the Clean State Council for all state government agencies. Progress is being made on increasing source reduction and recycling in state government offices, source reducing office paper, toxics use reduction in cleaning supplies, piloting of unbleached (ECF) paper products, and improving energy efficiency in vehicle use and fleet management.

The Division is currently working with six facilities on P2 improvements to cleaning operations. Most of these facilities are subject to Vermont's Pollution Prevention Planning requirements.

For more information contact: Gary Gulka, VT DEC, (802) 241-3888; e-mail: garyg@wasteman.anr.state.vt.us.

EPA REGION 2

Enforcement Activities

The following SEP's were part of Region 2's administrative actions during the first half of this fiscal year:

Mercer Rubber Co. - 40 percent reduction in toluene usage through use of autoclave steam to clean parts, use of heat to soften material, kiting in plastic to reduce the need for cleaning with toluene and process changes.

Olympic Mills - installation and utilization of jets that have the capacity to dye colored poly/cotton fabric without the use of carriers. Substitution of

raw material that will eliminate the use of 1,2,4 - trichlorobenzene.

Curtiss - Wright - Installation of degreasing equipment to replace the use of 1,1,1 trichloroethane at its facilities in Fairfield, New Jersey and Shelby, North Carolina.

Permits

The New Jersey Department of Environmental Protection (NJDEP) issued a draft facility-wide permit for TeknipleX and Bond Adhesive, located in Flemington and Newark, New Jersey respectively. The permit combines all previous permits issued to the facility for air and water releases and includes other requirements for the management of hazardous waste. It also incorporates appropriate provisions from TeknipleX and Bond Adhesive's Pollution Prevention Plan. Region 2 has reviewed the draft permit from air, water, and RCRA/HSWA perspectives, and transmitted comments to NJDEP in early November 1995.

In addition, NJDEP released the facility Wide Permit's Final Draft Public notice for Fisher Scientific, located in Bridgewater, NJ. Region 2 reviewed the draft permit and transmitted comments to NJDEP in Mid-March. NJDEP's review of the permit is expected to conclude soon, allowing the permit to be finalized.

Grants

The New Jersey Department of Agriculture's (NJDA) P2 technical assistance program, supported with EPA Region 2's P2 Support funds, has documented reductions in pesticide and fertilizer use among farmers in northern New Jersey who were assisted by the program. The program, which fostered partnerships between NJDA, the North Jersey Resource Conservation and Development Council, and the Rutgers University Integrated Pest Management program, was presented by the participants twice in the past three months for EPA Region 2 staff in the New York City office and at the laboratory facility in Edison New Jersey, which houses the Pesticides and Toxics Substances Branch.

Information Resources

Region 2's pollution prevention newsletter is being formatted for electronic transmission and the Region's Internet home

page. This initiative will reduce paper use, as well as the cost of postage. Look for the summer/autumn '96 issue of the newsletter (RIIP2 Review) in September at the Internet address: <http://www.epa.gov/Region2>.

Special Initiatives

The Agency conducted two Regulatory Update Multimedia Seminars Region 2 Edison facility in December, 1995. The seminars were intended to provide facility representatives with the latest information on all the different programs. The seminar covered all media and provided the audience with information on how to obtain the latest information on pollution prevention and resources available in Region 2.

An additional seminar was held April 1996 to accommodate industry representatives from New Jersey unable to register in December, due to overwhelming demand.

Training

Under EPA's Environmental Technology Initiative (ETI) project, Region 2 has been collaborating with Headquarters to develop a pollution prevention training course. This project builds on a two-phase training program. The first phase, which has already begun, consists of conducting two pilot training courses to teach Region 2 and state permit writers, inspectors and enforcement staff how and why to identify innovative pollution prevention technology options in RCRA permits, and how to communicate information across perceived governmental and industrial barriers. The second phase will build on the experience learned from the pilot training courses to conduct four additional training courses in New York, New Jersey and Puerto Rico. The first pilot training

course was held in March 1996 at the Region 2 office. One of the three days was allocated for a field trip to IBM East Fishkill to practice the P2 assessment skills learned in the classroom training.

For more information contact: Janet Sapadin, U.S. EPA Region 2 (212) 637-3584.

NEW P2 PUBLICATIONS

The following is a list of new publications received at the NEWMOA Clearinghouse:

"The Great Printers Project: Recommendations to Make Pollution Prevention a Standard Practice in the Printing Industry." Environmental Defense Fund, 1994. Call EDF at (202) 387-3500.

"Painting/Coating Pollution Prevention Information Packet." Office of Pollution Prevention, Ohio EPA, September 1995. Available from Ohio EPA (614) 644-3469.

"Metalworking Fluids Pollution Prevention Information Packet." Office of Pollution Prevention, Ohio EPA, September 1995. Available from Ohio EPA (614) 644-3469.

"Chemical Manufacturing Industry Pollution Prevention Information Packet." Office of Pollution Prevention, Ohio EPA, September 1995. Available from Ohio EPA (614) 644-3469.

"Guide to Establishing a Pollution Prevention Assistance Program at the Local Government Level." Dade County Department of Environmental Resources Management, Miami, FL. Available (305) 372-6825.

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