



NORTHEAST STATES POLLUTION PREVENTION NEWS

NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION
(NEWMOA)

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NORTHEAST STATES POLLUTION PREVENTION ROUNDTABLE

Conferences

The Pollution Prevention Consortium of New England Universities (P2 Consortium) is holding a conference, **Changing the Course of Production: A Student-Faculty Conference on Pollution Prevention in Manufacturing and Services** on October 22-23, 1994 at the Massachusetts Institute of Technology. This will be the first conference ever held for students and faculty on P2. The P2 Consortium is managed by NEWMOA. The conference will feature student presentations and posters on P2; opportunities for creating a student P2 network; discussion on P2 topics; presentations by industry, government, and environmental groups; and a career panel. The discussion topics will cover P2 and environmental justice, P2 in companies, design for the environment, and P2 in transportation and energy. EPA, DOE, and the P2 Consortium are sponsoring the conference. The P2 Consortium is seeking additional sponsors. Contact Ilze Gotelli or Terri Goldberg at NEWMOA to receive a conference registration packet.

The 1994 TRI Data Users Conference will take place on December 5-8, 1994 at the Boston Park Plaza Hotel in Boston, MA. NEWMOA is organizing the conference under a grant from EPA headquarters. This is the fifth year that EPA has sponsored this event. The conference will include two plenary sessions, fifteen break out sessions, a demonstration session and training. The themes of the conference will be pollution prevention, TRI

partnerships and innovative uses of TRI. The P2 sessions will cover P2 measurement, the P2 data elements, state P2 data, and others. The audience for the conference includes individuals involved in using TRI data from state, local and federal programs; industry; environmental groups; community groups; labor; and academic institutions. NEWMOA has hired Madsen Marketing Strategies to manage conference logistics. An announcement about the conference will be sent out in late June. If you would like to receive a registration packet, please call Madsen Marketing Strategies at (617) 628-9297.

NEWMOA will be holding its annual training and technology transfer meeting on November 16-17, 1994 in Stamford, CT. This is a conference for state and federal environmental

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agency staff that covers topics in hazardous waste, solid waste, pollution prevention and waste site clean-up. There will be at least five sessions of the conference on P2 topics. These may include P2 and painting and coatings operations, P2 planning, and P2 in enforcement. For more information on this meeting, contact the NEWMOA Boston Office.

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

VERMONT

VERMONT DEC

The Pollution Prevention & Education Division (Division) continues to work with vehicle service and repair industries through workshops and on-site assistance. On May 18, the Division conducted an evening workshop on interactive television that was broadcast to nine sites state-wide. The workshop addressed solvent adsorbents, wastewater and OSHA compliance issues. A video tape of the workshop will be available on loan to state programs. The Division is conducting on-site pollution prevention assistance this summer to about 30 vehicle service facilities.

The Division will be receiving a grant from EPA to set up model facilities of compliance and pollution prevention throughout the state for vehicle service repair and drycleaning businesses. It is hoped that the model facilities will be used by other businesses to learn about compliance and pollution prevention in a non-threatening environment. Five model facilities for each business type will be set up. We hope that this effort will be an example of a successful collaborative effort between business and government.

On April 22, Earth Day, Governor Howard Dean signed an executive order establishing a "Clean State Program" for state agencies. A Clean State Council will be formed with representatives from all state agencies and departments. The Council will oversee the development of a Materials Management Plan that will guide state government purchasing and procurement practices. The Council will also assure effective source separation and recycling

programs, as well as employee education programs throughout state government. The Agency of Natural Resources is required to conduct a comprehensive environmental assessment of its operations and develop a prototype pollution prevention plan for all state government.

On June 8, the Division sponsored the national spray painting teleconference at six interactive television sites throughout Vermont. Although attendance was sparse, the conference provided some interesting and valuable case studies of pollution prevention.

On June 21, the Division sponsored a conference on pollution prevention for the printing industry that was attended by both small and large printers, including screen printers.

For more information contact: Gary Gulka, VT DEC, (802) 241-3888.

Northeast States Pollution Prevention News

Northeast States Pollution Prevention News is published on a quarterly basis by the Northeast Waste Management Officials' Association's (NEWMOA) pollution prevention program, called the Northeast States Pollution Prevention Roundtable. It is provided free to the northeast states, EPA and other interested individuals. The newsletter is supported by funds from EPA Regions 1 and 2 and the northeast states.

We appreciate hearing comments and suggestion on the newsletter from our readers. Write or call NEWMOA at the address on the 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.

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 Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island and Vermont. NEWMOA is a forum for increased communication and cooperation among the member states, a vehicle for the development of unified positions on various issues and programs, and a source of research and training on hazardous and solid waste management and pollution prevention. NEWMOA's pollution prevention program was established in 1989 to enhance the capabilities of the state 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) establishing a clearinghouse of information (2) conducting training sessions (3) researching source reduction strategies and (4) organizing NE Roundtable meetings and committee activities. NEWMOA's PP program is supported by grants from the U.S. EPA and by NEWMOA member states.

RHODE ISLAND

RHODE ISLAND DEM

Members of the Pollution Prevention Grant Committee have been busy reviewing and approving the 1994 grant proposals. The Rhode Island Grants Program is designed to promote the research, development, and demonstration of technologies that have the potential to reduce or eliminate pollution at its source. So far this year, nine Rhode Island Pollution Prevention Grants have been awarded in the amounts ranging from \$33,000 to \$120,000. The total amount of money awarded to date (as of June 7, 1994) is over \$530,000. Some of the projects receiving funding include: non-cyanide copper plating, non-cyanide blackening, plating rinse water recycling, plating material recovery, diffusion dialysis, use of ceramic membranes, and research on silver recovery from photo finishing.

The Rhode Island P2 Information Library will be greatly expanded this summer with the help of some university interns. Over 50 new citations have been added to our vendor and technical files this month, and it is expected that at least 100 more will be added by the end of this summer.

For more information contact: Jim Saletnik, RI DEM (401) 277-3434.

NARRAGANSETT BAY COMMISSION

Technical Support Activities

The Narragansett Bay Commission's (NBC's) Pollution Prevention Program continues to work closely with Rhode Island's industrial community in order to identify industrial processes in greatest need of pollution prevention assistance. As of this writing, the NBC's P2 Program has interfaced with more than sixty companies throughout its servicing district. On going projects include: membrane recycling of wastewater, recycling of contact cooling waters, use of low temperature evaporation as a closed-loop recycling system, elimination of chlorinated solvents with aqueous degreasers, and zero discharge of wastewater through water conservation and process modification techniques.

Upcoming Workshops and Conferences

The NBC along with the Rhode Island Department of Environmental Management (RI DEM) will be co-sponsoring the 1994 Rhode Island Pollution Prevention Conference and Exposition on October 19 - 20, 1994. This will be the second such conference held in the State of Rhode Island. The first Rhode Island Pollution Prevention Conference, held in September of 1992, was a tremendous success with over 300 attendees, 45 exhibits, and more than 15 individual workshops.

This year's conference will be held at the new Rhode Island Convention Center in the

heart of downtown Providence. This new facility will allow this event to double in size from 1992. Specific industrial pollution prevention efforts will be addressed in workshops focusing on the: Marina Industry, Textile Industry, Electroplating Industry, Dry Cleaning Industry, Automotive Industry, as well as Photo-processing and X-ray operations. Other scheduled workshops include: Stormwater Permitting, and Water Conservation and Management.

Pollution Prevention and Regulatory Integration

Because many of the contacts made between NBC's Pollution Prevention Program and the industrial community are initiated through NBC's regulatory Industrial Pretreatment Section (IPT), there exists a unique opportunity to include pollution prevention activities as part of the solution to resolving regulatory problems. Pollution prevention efforts have resulted in: cost savings on expensive pretreatment equipment by eliminating pollution at the source of generation; use of penalty money on pollution prevention projects; and recycling of wastewater through the use of membrane separation techniques as opposed to chemical treatment and sewer discharge.

Case Studies

Case study reports are being prepared on several pollution prevention projects initiated by the industrial community. These studies will focus on the finance and economics involved with initiating these activities, regulatory roadblocks and concerns, as well as the technical aspects of these activities. It is hoped that by properly documenting these "success stories", other industries will be encouraged to participate in pollution prevention projects and activities. NBC Pollution Prevention Case Studies should be available for distribution by July or August 1994.

University of Rhode Island Center for Pollution Prevention

The University of Rhode Island's Department of Chemical Engineering (URI) continues to assist NBC's Pollution Prevention Program with researching various pollution and source reduction techniques and methodologies. Studies at URI have involved the application of membrane separation equipment to various industrial operations, such as the recycling of textile pigment manufacturing wastewaters and

recycling of nickel dragout solutions in electroplating operations. URI has also conducted extensive studies into the use of diffusion dialysis for recycling spent acid waste solutions. In addition to research, URI students and staff assist NBC's Pollution Prevention Program by conducting industrial site visits, writing case study reports, and promoting pollution prevention technologies and methodologies at various conferences and seminars.

For more information contact: James McCaughy, NBC, (401) 277-3434.

NEW YORK

NEW YORK STATE DEC

Training, Education and Outreach

The manual entitled "The Environmental Self-Audit for Small Businesses," that was described in the Winter 1993/94 issue of the *NSPPN*, has been printed and widely distributed. Workshops are planned to assist small business in the use of this manual. For copies of the booklet, contact Ronald Maylath, (518) 457-2010.

The first phase of training on how to conduct team and reconnaissance multimedia inspections is underway. This training is being given to DEC regional staff involved in multimedia inspections and is based upon guidance developed by the Pollution Prevention Unit on multimedia inspections. Approval of a grant proposal to EPA to support full development of the training program is pending. (contact William Eberle, (518) 457-2480)

A live interactive teleconference "Spray Painting: Improvements and Alternatives" was downlinked to eight sites throughout New York State on June 8, 1994. More than 150 people from industry and government attended this event, that was produced and broadcast by Cleveland Advanced Manufacturing Program and NIST Great Lakes Manufacturing Technology Center. DEC's Pollution Prevention Unit was one of several co-sponsors who joined the New York Manufacturing Extension Partnership in this effort in New York State.

The first multimedia pollution prevention (M2P2) Fact Sheet has been finalized. It

describes DEC's coordinated environmental management approach to pollution caused by industrial and other facilities. Also, a "palm card" describing the Pollution Prevention Unit program and activities is available.

The manual entitled "Pollution Prevention Guidance for Local Governments" has been very popular and reprinted. The Department is planning workshops for small business that will include this manual as an agenda item. (contact Linda Shea, (518) 457-2480)

Pollution Prevention Conference

The 1994 Seventh Annual Pollution Prevention Conference was held June 1-3, 1994 at the Omni Albany Hotel. The annual conference, sponsored by DEC and the Business Council of New York State, focused on how the M2P2 program has been working for New York State industries and DEC. Approximately 265 people attended, representing businesses, government, environmental consultants and others. The conference offered an array of informational resources regarding M2P2 and opportunities for interactive exchange of information. Acting Commissioner Langdon Marsh was the keynote dinner speaker and presented the First Annual Governor's Awards for Pollution Prevention. The Proceedings of the 1993 Sixth Annual Pollution Prevention Conference are available, and the 1994 Proceedings will be prepared this summer. For copies of the Proceedings, please contact Linda Shea at (518) 457-2480.

First Annual New York State Governor's Awards for Pollution Prevention

A total of 41 applications were received for the first annual awards. The awards honored companies who have developed new technologies, successfully substituted non-toxic for toxic materials and changed processes to eliminate or reduce pollution. The awards were presented to two small companies and four large companies.

- Dowcraft Corporation - a producer of computer cabinets and office partitions. This company reduced air emissions and hazardous waste generation from preparing and painting metal surfaces by replacing paints that created high emissions of VOCs with a high-solid, low-VOC paint with a high-coating ability. The project further reduced emissions by using

improved scheduling of painting activities.

- Kem Plastic Playing Cards, Inc. - a manufacturer of playing cards. This company eliminated the original coating procedure, that involved evaporating 65 percent of the coating mixture, and substituted a new coating that is 100 percent solids and fixed with ultraviolet light.

- Alcan Rolled Products - a manufacturer of aluminum products. This company reduced hydrogen chloride and chlorine emissions by 94 percent between 1986 and 1993 in their aluminum melting and holding furnaces through improved metal cleaning and degreasing technologies.

- IBM East Fishkill - a semi-conductor manufacturing and research facility. This company's project included source reduction of 42,000 gal/year of material containing hazardous materials and substituting a recyclable material, saving \$2.5 million/year.

- Weber-Knapp - a manufacturer of metal hardware for computer products, office equipment and home and office furniture. This company achieved a 100 percent reduction of trichloroethylene emissions and TCE-contaminated still bottoms by replacing a TCE vapor degreaser with a powder coating, installing a cabinet spray washer, and modifying an existing aqueous cleaning line.

- Xerox Corporation This company's project was the adaptation of a pelletized carbon dioxide cleaning technology, which eliminated 120,000 pounds per year of 1,1,1-trichloroethane, saving an estimated \$500,000/year.

Pollution Prevention Bulletin

The spring 1994 issue of the *Pollution Prevention Bulletin* is now available. A special issue of the Bulletin is being prepared on the recipients of the First Annual Governor's Awards for Pollution Prevention, which will be available in late July. For copies of any issue of the Bulletin, contact Linda Shea at (518) 457-2480.

Toxic Chemical Reduction Plans Regulation (Part 378)

Revisions have been made to New York's proposed regulation 6NYCRR Part 378, Toxic Chemical Reduction Plans, that require facilities that generate hazardous waste and emit, discharge or release toxic chemicals at or above certain thresholds to reduce such releases to the environment to the extent technically feasible and economically practicable. The regulation will go

before the Environmental Board for final revisions or approval in September 1994. The final rule is expected to be promulgated and in effect in the fall of 1994. For further information on Part 378, please contact William Eberle at (518) 457-2480.

Comparative Risk Project

The EPA has given DEC the go-ahead on a comparative risk project that will be used to provide public input to decision making on pollution prevention strategies. \$100,000 will be awarded to DEC to support activities related to carrying out the 2-year project. The DEC project relies heavily on the oversight of the Multimedia Pollution Prevention Advisory Group, which will establish various working groups to identify and evaluate environmental problems in New York State.

EPA's Chlorine Use Limitation Study

A subcommittee of the DEC's Multimedia Pollution Prevention Advisory Group is being formed to evaluate impacts from prohibiting, reducing or substituting for the use of chlorine. This subcommittee will develop positions that will be passed on to the EPA for its consideration as it studies this issue.

Grant Activity

A series of solid waste reduction grants have been awarded to local governments under the DEC's Local Resource, Reuse and Recovery Program (LRRRP). These LRRRP grants were awarded to 12 New York State municipalities, providing up to 75 percent of the costs associated with waste reduction activities. The \$495,000 in funding will provide for activities ranging from educational campaigns to influence consumer buying habits, to the establishment of exchanges where unwanted office equipment and supplies can find a home with a small business or not-for-profit group. (contact: Gus Ribeiro at (518) 457-7337)

CONEG Challenge Awards

IBM, headquartered in Armonk, New York, was the recipient of the first Coalition of Northeast Governor's (CONEG) Challenge Award for Total Reduction of Packaging Waste. IBM's Environmental Packaging Program was started in 1990 and is worldwide in scope. An

Environmental Design Guide has been prepared by IBM as a road map to implement its basic environmental packaging strategy and has been made available to other companies as a model for them to develop their own environmental packaging strategies. IBM has also set out to standardize its packaging materials and to look for new packaging technologies, which allow for reduction, reuse and recycling of packaging waste.

For more information contact: Linda Shea, NY DEC, (518) 457-2480.

ERIE COUNTY OPP

EOPP hosted a "Financial Cost Analysis for Pollution Prevention Projects" on May 19, 1994 that was presented by NEWMOA's Terri Goldberg. Attendees included the NYS DEC Division of Air and Hazardous Waste, Erie County Office of Economic Development, Amherst Industrial Development Agency and municipal officials. We recommend this program for any agency attempting to promote pollution prevention from an economic standpoint.

Erie County participated in the downlinking of the May 12, 1994 "Clearing the Air on Clean Air" dry cleaning teleconference and the June 8, 1994 "A Better Coat" spray painting teleconference. At both of these events, ECOPP had representatives from the NYS DEC attend to answer specific regulatory questions. Having a "panel of experts" (suppliers, vendors, and people who have implemented changes) present at these types of events is beneficial to the attendees who have questions about their specific operation.

In addition, Erie County participated in the International Waste, Recycling and Environmental Exposition on April 13-14, 1994 and gave a presentation to the local chapter of the Society of Manufacturing Engineers.

Once again, ECOPP provided pollution prevention program information to 25 federal, state, local and private entities. Our program has gained worldwide exposure as we have been contacted by organizations in Spain, Austria, and Thailand. Since our policy and evaluation reports have been printed in April 1993, we have distributed over 200 copies of each.

ECOPP staff members provided onsite technical assistance to 18 companies and 6 Erie County facilities. Each company receives a letter with site specific pollution prevention information and copies of product and/or equipment literature from our files.

A special "POTW edition" of the Pollution Solutions newsletter has been drafted and will be mailed to approximately 70 POTW's within New York State. This edition contains articles from our industry specific newsletters and were edited to be directed at the pretreatment inspectors.

A meeting was held with the POTW steering committee to discuss the priorities for a second training session tentatively scheduled for late August.

Several members of the Erie County Department of Environment and Planning have been active participants in the Erie County Water Quality Coordinating Committee that meets on a monthly basis to discuss nonpoint source pollution issues. The committee recently completed a watershed sign project. Approximately 40 signs have been placed along the boundary of the Buffalo River Watershed that covers approximately 446 square miles. The signs read "Buffalo River Watershed - Protect Your Water Resources". An educational pamphlet was developed in conjunction with the sign for distribution to the general public.

For more information contact: Thomas Hersey, Erie County, (716) 858-7674.

SUFFOLK COUNTY WATER AUTHORITY

Representatives from the Suffolk County Water Authority's Pollution Prevention Program (P2 Program) recently participated in three nationally broadcasted, live teleconferences.

Judy Jakobsen participated on the local panel portion of the National Town Meeting on Groundwater Protection Telecommunications Conference sponsored by the League of Women Voters of Nassau County on May 4, 1994. Hofstra University served as the downlink site in Nassau County. The local panel discussion focused on wellhead protection measures and programs currently in place.

The teleconference "Clearing the Air on Clean Air" was geared to assisting dry cleaners with the new reporting and equipment modifications/changes required under the Clean Air Act to reduce perchloroethylene emissions from these facilities. New York Institute of Technology served as the downlink site for the Suffolk County area. Fifteen dry cleaners attended the broadcast that included shop walk-throughways to identify equipment and monitoring procedures at actual dry cleaner facilities, in addition to step-by-step information on how to complete the required reporting forms. A fairly detailed manual was provided to the attendees that complimented the broadcast information. During the local portion of this program, a video tape was shown on the anticipated NYS changes to the CAA that will affect the dry cleaners. A representative from the DEC Division for Air Programs was present to field questions concerning the NYS CAA provisions. The P2 Program has video tape copies of the broadcast and the NYS presentation.

The second teleconference "Spray Painting: Improvements and Alternatives" was geared to industries in sic codes 24 through 26 and 34 through 38 that perform spray painting operations at their facilities. The teleconference provided information on the Clean Air Act provisions that affect spray painting operations and included a number of actual shop walk-throughways to demonstrate alternative spray systems and formulations that a number of companies have implemented to reduce VOC emissions at their facilities. There were seven downlink sites located throughout New York State. Twenty-five people attended the downlink site for Long Island that was located at Suffolk Community College's Brentwood Campus. There were a number of representatives present from DEC, NYS Department of Economic Development and also a local air permitting consultant, that assisted with presenting information and responding to attendee questions on the NYS provisions of the federal Clean Air Act that affect spray painters. The participation of these agencies in the teleconference was appreciated by Judy Jakobsen who served as the moderator for this event.

For more information contact: Judy Jakobsen, SWCA, (516) 563-0306.

NEW HAMPSHIRE

DES/UNH Pollution Prevention Partnership

NEW HAMPSHIRE DES

In case you were wondering, we are still alive and well in New Hampshire! The NHPPP apologizes for being noticeably absent from the Spring 1994 issue of the *"Northeast States Pollution Prevention News."* Things became quite hectic earlier this year with Capacity Assurance Planning, "Pitstops" Workshop planning, and the loss of Liz Todd from the NHPPP, and suffice it to say, some things fell by the wayside. In this issue, we hope to catch up on some NH news and let everyone know that we are back!

Multimedia Task Force

The Multimedia Pollution Prevention Task Force recently completed a review of the first draft of the DES Pollution Prevention Strategy. Comments of the Task Force will be incorporated into the document. After final review by the Task Force, the Strategy will be given to the DES Senior Management team for comment. We hope to have the final Strategy ready for distribution by the end of the summer.

Staff Training Initiative

DES senior management received a three-hour pollution prevention orientation session, which will be given to all 450 DES employees. The purpose of training upper level management first was to allow them to experience what their staff would be receiving, and to gain their support. Managers were asked to critique the training and provide constructive suggestions. Feedback was very positive and several improvements were suggested. Senior management endorsed the program, and training sessions for the rest of DES staff will begin after the Pollution Prevention Strategy is finalized.

Green Technology Forum

NHDES has initiated a Green Technology Forum in order to foster communication between the environmental business community and state government. The Forum has met 3 times, with an average of 30 businesses in attendance. DES Commissioner Robert Varney was serving as ad hoc chair, but Debra Giles of Ferrofluidics Corp. in Nashua has agreed to take over chairperson responsibilities. P2 will be one of the focus areas of the Forum.

The DES and the University of New Hampshire successfully secured a PPIS Grant to establish a "Pollution Prevention Partnership." The grant was awarded in October of 1993, but did not "officially" start until December 1993, after the NH Governor and Council approved a contract with UNH. The Grant has five primary components: 1) Develop a Prevention Curriculum Module for Chemical Engineering Students; 2) Organize a "Hands-On" Pollution Prevention Experience - The Student Internship Program; 3) Develop Pollution Prevention Case Studies; 4) Establish a Pollution Prevention Advisory Committee; and 5) Facilitate Technology Transfer, Networking, and Workshops/Conferences.

Due to the nature of the academic year, the Student Internship project took precedence over the other four proposed tasks. In particular, the Student Internship portion of the larger Partnership required that the program be advertised, interested NH companies and student interns located, and the student interns trained in the concepts of Pollution Prevention, all by the end of May. As of this writing, eleven UNH Chemical Engineering students and nine NH companies are participating in the project. One intern is working with NHPPP staff on developing a series of pollution prevention case studies in three sub-basins of the Merrimack River Basin. Now that the Internship program is up and running, NHPPP and UNH staff will focus on the establishment of the Pollution Prevention Advisory Committee and the development of a Pollution Prevention Curriculum.

"Pitstops" Workshop Series

As of June 1, 1994, the NHPPP completed its May 1994 "Pitstops" workshop series, which consisted of five sessions located around the state. The primary goal of the NH "Pitstops" workshop series, a joint venture between the NHPPP, EPA Region I, NEWMOA, and the NH Auto Dealers Association, was to provide both Pollution Prevention and Regulatory Compliance information for representatives of the NH Vehicle Service Industry. Approximately 2520 brochures were mailed out by the NHPPP utilizing a state vehicle inspection station listing. In addition, information about "Pitstops" was disseminated through the

NHADA's newsletter, which is sent to 450 members. About 282 people pre-registered for the five sites, with 260 actually attending. Initial verbal feedback from both participants and presenters has indicated that the workshop, and the information provided, was valuable.

Hazardous Waste Capacity Assurance

The New Hampshire Hazardous Waste Capacity Assurance Plan (CAP) was successfully completed and submitted to EPA by April 29, 1994. NH provided the required hazardous waste capacity and generation figures, for 1991 and the projection years, in the required six table format. In the plan, NH indicated that the state maintains no in-state commercial treatment, storage, or disposal facilities, and as a result, must export most of the hazardous wastes generated in-state. NH also described its pollution prevention efforts to date, and the importance of pollution prevention as a means to assure capacity by reducing demand placed on out-of-state commercial TSDF capacity. The good news is that the plan was completed and sent in by the EPA deadline. The bad news is that in order to complete the CAP requirement, the NHPPP, in effect, lost half of its staff for a period of about six months. Although there may be merit to closely linking CAP issues with Pollution Prevention, there are clear drawbacks when small state programs are involved.

Annual Pollution Prevention Conference

On March 16, 1994, NH held its second annual Pollution Prevention Conference at the New England Center-University of NH, Durham. The conference, as in the previous year, was a joint venture of the NHPPP, various entities within UNH (i.e., Chemical Engineering Department, Environmental Research Group, the Division of Continuing Education), the NH Business and Industry Association's WasteCap Program, and several Industry sponsors. The agenda included a welcome address by UNH President Dale Nitzschke, and DES Commissioner Robert Varney. The wide variety of offered topics included such "staples" as the P2 assessment procedure and the total cost accounting for P2 projects, in addition to specific sessions on solid waste packaging and recycling laws, design for de-manufacturing, zero wastewater discharge, and a panel discussion on P2 initiatives taking place within the DES.

The workshop was "sold out" with over 118 registered participants. Conference evaluation forms indicated that the conference was a success. The statewide pollution prevention conference has turned into a popular and high visibility event, and there are plans to continue it as an annual event. The collaboration of conference planners has proven effective and valuable. It is hoped that next year the conference will include an awards ceremony for NH companies exhibiting Environmental Excellence in P2.

On-Site Assessments

During the period October 1, 1993 to the present, NHPPP staff have completed nine on-site pollution prevention assessments and "pre-assessments." As mentioned in the Winter 1994 *NSPPN*, the regulatory stigma associated with the NHPPP's location at the DES and the lack of such "motivators" as Toxics Use Reduction or P2 Planning legislation has made voluntary requests for on-site services relatively rare.

It is interesting to note that more and more frequently, company requests for on-site assessments have resulted from regulatory inspections where a referral to the NHPPP or the Small Business Technical Assistance Program has been made. Additional assessments have resulted from publicity associated with NHPPP-sponsored workshops. In addition to regulatory referrals, several of the assessments were requested following the Annual Pollution Prevention Conference in March and the "Pitstops" Workshop series in May. As P2 becomes fully integrated into DES's regulatory activities, and as the NHPPP becomes better known through its own outreach and education activities, it appears that on-site assistance activities are increasing. It may well be possible that the NHPPP will become more closely allied with the regulatory branches of the Department as P2 becomes an accepted strategy to meet regulatory requirements.

Other Pollution Prevention Outreach

● "Wastelines" Newsletter The NHPPP continues to publish its "Wastelines" P2 newsletter. Response to the newsletter has been extremely good, and the mailing list for the newsletter has grown from roughly 300 to 477 companies and individuals. Following each mailing of the newsletter, the NHPPP receives

numerous requests for additional information relating to P2 stories, reports, etc. in that issue.

● Pollution Prevention Case Studies in NH The NHPPP is also in the process of establishing the first set of in-state pollution prevention case study reports. These case studies, generated through an independent consultant and through a UNH chemical engineering student intern, will document pollution prevention efforts in New Hampshire companies, which have worked with the NHPPP or which have proactively completed pollution prevention activities within their facility. Feedback from NH companies has revealed that in-state case studies achieve a high degree of credibility in demonstrating and promoting pollution prevention as a practical waste management strategy.

● Pollution Prevention and the Department of Education Working with the Department of Education, in particular the Home Economics Department, the NHPPP will hold a teachers workshop on August 11 & 12 to provide P2 training for teachers and to establish a teachers workgroup to create a curriculum and to provide a series of workshops to promote P2 within the New Hampshire school system. There seems to be a change emerging on the Home Economics front allowing for the broader concept of "Home Ecology" to be explored.

Workshops/Conferences

- May 24, 1994 -- NH Hospital Association "Green Lights" Conference, "NH's New Fluorescent Lamp Recycling Policy"
- May 23-26, 1994 -- DES/UNH Pollution Prevention Partnership - Introductory Pollution Prevention Training for chemical engineering student interns participating in the Internship Program
- April 21, 1994 -- NH Safety Council Annual Conference
- March 31, 1994 -- Industrial User Pollution Prevention (provided through City of Lebanon Industrial Pretreatment Program)
- March 11, 1994 -- New England Architectural Woodworker's Association Annual Conference
- December 10, 1993 -- P2 Training for POTW Pretreatment Coordinators

For more information contact: Paul Lockwood, NH DES, (603) 271-2956.

MASSACHUSETTS

MASSACHUSETTS DEP

The Massachusetts Department of Environmental Protection (DEP) is in the initial phases of developing a number of new regulations. This summer and fall, MA DEP will be developing regulations for:

- waivers from permitting requirements if companies do pollution prevention; and,
- criteria for setting up user segments.

Other activities underway include an Amnesty program for companies that have not filed past TURA reports and back fees. Phase 1 of the Amnesty began on February 1, 1994 and concluded on May 31, 1994. In Phase 1, DEP notified over 1,200 companies that they may be subject to the TURA reporting and planning requirements. Companies were invited to file back reports and fees without having to pay double the back fees (as specified in TURA, Section 19(f)) or pay additional administrative penalties for failing to report. Thus far, 31 companies have voluntarily filed back reports and paid over \$319,000.

Starting June 1, 1994 and running through September 30, 1994 is Phase II of the Amnesty. Companies may still voluntarily file reports and pay back fees without being subject to double fees and penalties. However, if DEP finds a company during an inspection to be out of compliance with TURA, the company will be subject to the full force of the law.

DEP has issued a guidance manual for TUR planning. The manual describes the regulatory requirements for the TUR plans that are due July 1, 1994. Model sections of plans and charts for organizing planning information help companies write TURA plans that are in compliance with DEP regulations. The guidance manual may be used in conjunction with the MA OTA, Practical Guide to Toxics Use Reduction that describes how to do a plan.

On May 14, 1994, DEP administered the third TUR certifying exam for Toxics Use Reduction Planners (TURPs). At this point, over 300 people are certified TURPs. Approximately two thirds of the TURPs are limited practice TURPs, who certify plans only for their companies. The remainder are general practice TURPs, who may be hired to develop, review and certify plans for

any company. 70 of the general practice TURPs are consultants, while 30 work for companies subject to TURA. For a list of certified TURPs, contact the DEP.

DEP recently released "Policy for TURA Reporting and Planning for Certain Metalworking Operations". This policy offers an exemption from TURA planning and fees and reduced reporting for companies, under limited circumstances, that shape certain metals and have no emissions except transfers to recycling.

For more information contact: Walter Hope, MA DEP, (617) 292-5982.

MASSACHUSETTS OTA FOR TUR

July 1 is the deadline for receipt by DEP of the first TUR plan summaries from the 600 plus Massachusetts companies required to file annual reports on their use of listed chemicals. The plans, which must include two and five year byproduct reduction goals and implementation plans must be on file at the company and available for view by DEP. The summaries will be available at DEP and are public documents.

First Annual Governor's Awards

The first annual Massachusetts Governor's Awards for Toxics Use Reduction were awarded to:

- United States Postal Service — Vehicle Maintenance Facilities
- Raytheon Company, Lexington
- National Microscale Chemistry Center, Merrimack College, North Andover
- KomTek, Worcester
- Johnson & Johnson Professional Services, Inc., New Bedford
- Dydee Diaper Service, Dorchester

Lieutenant Governor Paul Cellucci and Secretary of the Executive Office of Environmental Affairs Trudy Coxe presented the awards on May 26 during a luncheon ceremony in the State House.

The purpose of the awards program is to recognize outstanding TUR achievement by individuals, industry and institutions in both the public and private sectors in Massachusetts. In addition to recognizing outstanding achievement, the award program is also designed to share success stories and to educate the public about

the ways toxic materials are used and managed. The criteria used to evaluate award entrants include: reductions achieved; benefits achieved (economic, environmental, worker health and safety, and public health); innovation, and transferability.

The U.S. Postal Service has implemented a number of TUR techniques at its ten Massachusetts vehicle maintenance facilities, which can easily be implemented at other vehicle maintenance facilities. They include: closed-loop antifreeze recycling, and nonhazardous aqueous parts cleaning and brake washing systems with filtering and cleaning of the solutions for reuse. The facilities also recycle used oil and the various filters used in the vehicles.

The Raytheon Company has eliminated emission of 2.6 million pounds per year of Freon and other ozone depleting chemicals (ODCs) at its Massachusetts facilities since 1987. The company has established its own "Design for the Environment" initiative, which involves all levels of employees. The company has shared its experiences with hundreds of companies throughout the world.

Scientists at the National Microscale Chemistry Center at Merrimack College in North Andover have developed techniques to reduce the use of laboratory chemicals by designing new equipment, curriculum and reaction techniques for experiments. The techniques can result in more than 90 percent reduction in chemical and solvent use in the laboratory. The program has been implemented in over 1,500 colleges and universities; it serves as the model for high school and community college programs, and it is being adapted for industry and government labs.

KomTek, a Worcester-based manufacturer of steel alloy parts for petrochemical, aircraft and medical companies, has implemented TUR process changes that annually save over \$45,000 in acid handling costs, reduced equipment downtime, improved quality and decreased rework of finished parts. The company eliminated acids used for cleaning by replacing them with a mechanical cleaning system, and also found ways to remove metals from its rinse water discharges.

A multi-disciplinary approach to safety and environmental management that involves employees companywide has yielded a 65 percent

annual reduction in hazardous waste generation for Johnson & Johnson Professional in New Bedford. The company has eliminated sulfuric and nitric acid baths saving \$25,000 a year in acid purchase and disposal costs, and it no longer uses a number of hazardous solvents, ODCs and cadmium in its manufacturing processes.

Dydee Diaper Service in Dorchester had a problem with elevated zinc levels in its water discharges. It traced the problem to its customers' use of ointments containing zinc oxide. Instead of installing a \$150,000 - \$200,000 pretreatment system that would cost a minimum of \$25,000 a year to operate, the company began what became a successful all-out educational campaign with its employees and customers. Dydee has bought back partially used containers of zinc oxide creams and sells it customers zinc free products at half the retail price. Zinc levels have been reduced so that no expensive treatment equipment has had to be installed.

Amnesty

The current amnesty for companies that should have filed reports under TURA and had not yet done so has been bringing in a steady trickle of takers — some having been alerted by their vendors of their potential need to report the chemical usage. One OTA team, working with a chemical distributor, observed that the company's main TUR opportunities would result from working with their customers — the company and OTA are looking into sponsoring a workshop for the customers.

Clean State

OTA has established agreements with four other state agencies — DEP, DCPO, DPGS and DPH — on the Clean State initiative to provide services of a multi-agency, multi-disciplinary team to perform assessments at 25 selected state facilities during the next 12 months. This program extends the OTA non-regulatory technical assistance services to state agencies.

The team will assess "green" procurement, solid waste source reduction, recycling, reuse and composting opportunities, energy and water conservation, toxics use reduction, and indoor environmental quality. After each site visit the team will provide the selected state facilities with a comprehensive report on the

opportunities to further implementation of P2 and resource conservation. (contact Hugh Pilgrim, OTA, (617) 727-3260 x 660)

Workshops and Publications

OTA and MWRA held a joint workshop on *Water Reuse: Optimization & Removal of Toxics* June 10 at Bunker Hill Community College that was attended by over 100 participants. EOEA Secretary Trudy Coxe gave the keynote address and the agenda was divided into three sessions: Water Reuse in Cooling, Removing Toxics for Water Reuse, and Meeting TRAC (Toxics Reduction and Compliance) Regulations with Water Reuse. Technical information was available at display booths set up by MWRA, OTA and 17 vendors. For copies of the Agenda; Speaker, Participant and Vendor lists, and relevant MWRA publications and OTA Case Studies contact Michael Frishman, OTA (617) 727-3260 x 674, or Marsha Gordon, MWRA, (617) 242-7110.

On May 17, OTA sponsored *Painting Innovations for the 90s*, one of the Office's ongoing series of hands-on events. "Painting Innovations" gave vendors of low pollution industrial paint and coatings and application systems a day-long opportunity to demonstrate their Clean Air Act compliant products in a production-like setting. Manufacturers brought unfinished, ready-to-be-painted samples of their products so that they could work with the vendors to test a variety of different coating materials and procedures.

A 90 minute talk entitled "Environmental Impact of the Spray Painting Processes," presented twice during the day by Walter Dany of Binks, covered the history of spray coating and extensive description of all the current best technologies and techniques.

A list of the vendors present at *Painting Innovations* is available from OTA. OTA also has video tape and/or published proceedings from the following previous events:

- Cooling Tower Workshop
- Pollution Prevention in Printed Circuit Boards
- Focus on Silver, P2 in Photoprocessing
- Technical Strategies for Waste Reduction in the Metal Working Industry and Machine Shops
- Solvents Bazaar

- Coatings Conference: P2 in Coatings Industry
- Milspecs Roundtable
- Prevention and Reduction of Acid Waste
- Clearing Up the Clean Air Act for Business
- P2 Techniques for the Printing Industry

Grants

The *Pit Stops* project is coming up to racing speed with the release of the Pit Stops poster from EPA. Pit Stops is a joint EPA/DEP-/OTA project designed to make pollution prevention and environmental safety part of the training of future auto mechanics. The outline for the "train the trainer" curriculum was enthusiastically endorsed by 80 Vo-Tech instructors at the annual Auto Tech day held at Mass Bay Community College. Mass Bay, as contractor, will work over the summer with the instructor group's advisory committee to develop the curriculum, which the instructors expect to begin using in the fall. Contact George Frantz, OTA, (617) 727-3260 x 631; Nancy Wrenn, DEP, (617) 292-5587.

The curriculum is now available for the *H₂Ome Improvements* package that includes a cable-broadcast video show, comprehensive consumer's guide and 6-lesson curriculum for grades 3-5. The H₂Ome Improvements curriculum, guide and video address wastewater and its treatment, and how this relates to awareness of HHW and its impact, and source reduction suggestions. A program evaluation report will be available in Feb. 1995. Contact Grace Offen, OTA, (617) 727-3260 x 696.

"How Companies in the Merrimack Valley Built a P2 Self-Help Network," an article in the Spring 1994 *Pollution Prevention Review*, describes in detail how OTA has been the catalyst that has brought together numerous Massachusetts and New Hampshire companies into a cooperative venture to help each other with their environmental programs. OTA's experiment is based on their regular observation that at conferences and workshops businesses tended to pay the most attention to the presentations of other businesses — what one observer calls the "Joe down the block syndrome." The Merrimack Business Environmental Network (MBEN) includes businesses, government technical assistance groups from the two states and non-profit environmental groups involved with river. This

project is assisted by an EPA grant awarded for innovative pollution prevention strategies.

Miscellaneous

OTA was recently invited to present information on the state's Toxic Use Reduction Act (TURA) and OTA to a class studying industrial ecology at Harvard's Kennedy School of Government.

OTA is working with the Everett Chamber of Commerce and other chambers in that region on the possibility of sponsoring a pilot nonregulatory assistance fair in Sept. for small and mid-size companies to acquaint them with services available to them. At least ten agencies/groups have expressed interest in participating.

OTA's Northeast team delivered a report to a company in a business that has only recently begun to look into TUR for its own operations — a newspaper printer who was so happy with the OTA's recommendations that he recommended OTA's services to several people at the Association of Newspaper Production Managers.

For more information contact: Michael Frishman, (617) 727-3260 ext. 674.

MASSACHUSETTS TURI

Over the past few months TURI has been actively engaged in a number of research, education, and technical support projects.

Research

TURI's Research Division recently solicited proposals for the FY-95 Matching Grants for Industry program. Six proposals covering various toxics use reduction topics were received from Massachusetts industries. A committee reviewed the proposals and selected three for funding. The topics of the selected proposals are: 1) feasibility of design for the environment in the R&D phase of product development; 2) electro dialysis for integral recycling of electroless nickel; and 3) integral solder strip recycling.

The Research Fellows Program, offered to University of Massachusetts Lowell graduate students, selected four Fellows for the 94-95

academic year. The research topics are: 1) the use of supercritical fluids as substitutes for dry cleaning solvents; 2) application of toxics use reduction approaches to the implementation of OSHA policy; 3) a methodology for solvent use reduction in electronics manufacturing; and 4) an impact analysis of pesticide bans. Fellowship awards include tuition, a monthly stipend, and money for supplies.

The Surface Cleaning Laboratory has been launched successfully and is now undertaking its first projects for Massachusetts companies. The initial focus of the lab is on evaluating aqueous cleaning alternatives in the metal parts and metal finishing industries. The lab has collected over 30 different substrate alloys, 80 different aqueous cleaning products, and 30 different surface contaminants, as a baseline for performing tests. The lab is available to MA companies using toxic chemicals, and is ready to assist all such companies in the evaluation of their surface cleaning technologies and alternatives which will reduce their toxic chemical use. A standard consultation is free to all MA companies using toxic chemicals. Lab services are also available to out-of-state companies on a fee-for-service basis.

The research division is currently at work on an evaluation of the MA experience to date with the TURA. This evaluation, as called for by the Act, will be presented to the TURA Program's Administrative Council by Jan. 1, 1995.

The EPA Clean Alternative Project continues to make progress. Three Massachusetts firms have been selected for inclusion in the project, and research division staff are engaged in evaluating their current cleaning technologies and possible alternatives. A laboratory quality assurance plan has been submitted to EPA. Following approval of this plan, cleaning alternatives will be evaluated in the Surface Cleaning Laboratory over the next several months. In addition to this technical evaluation, economic and environmental effects of the cleaning alternatives will be evaluated.

Education and Training

On June 29, TURI will sponsor and facilitate a focus discussion group on regulatory barriers and policy issues that inhibit the implementation of toxics use reduction and pollution prevention. This focused discussion is

part of a research project that TURI is completing for the Massachusetts Toxics Use Reduction Program's Administrative Council. A report of findings will be published later this summer. For more information, contact Jody Hensley at (508) 934-3391.

Education and Training will be taking part in the Regional Electron Magnet School Regarding Math and Science program (REMS2), sponsored by the Merrimack Education Center on July 19 and 20. The program exposes high school faculty and students to the resources available from area universities. TURI will present teachers with methods and materials for incorporating toxics use reduction and pollution prevention concepts into high school curricula. Contact Jack Luskin at (508) 934-3262 for more information.

Technical Support

TURI's Industry Advisory Board met on March 2. It continues to provide guidance and advice to TURI on its projects and activities. Board members were particularly supportive of the TURI's new project to evaluate regulatory burden on industry and to recommend changes to streamline this process.

The Technology Transfer Center's (TTC) information booth was set up at the New England Environmental Network Conference at Tufts and at the New England Environmental Exposition in Boston. Judging from the steady traffic at the booth and the volume of literature handed out, TURI is effectively making contact with industry and the public. An increasing number of industry and government researchers are utilizing the TTC.

On two occasions this quarter, industry and government representatives from Berlin visited the Technology Transfer Center and the Surface Cleaning Lab. These individuals continued to maintain contact with TURI as they collect information about pollution prevention support programs that might work in Berlin.

Staff from the Institute presented at conferences and classes sponsored by the US DOE, the Ecological Careers Organization, Bentley College, the New England Environmental Network Conference, the New England Environmental Exposition, and the Environmental Diversity Forum.

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

MAINE

MAINE DEP

The DEP, through the Office of Pollution Prevention and individual Bureau and staff efforts, has seen a virtual explosion of positive partnerships develop between business and DEP over the last year. Under the umbrella of pollution prevention and utilizing "total quality" skills and methods, bridges are being built where everyone realizes mutual goals. At the present, there are five cooperative pollution prevention projects underway with Maine's paper industry. Boise Cascade, International Paper, S.D. Warren Somerset, S.D. Warren Winslow, and James River Old Town are all working with DEP teams to improve environmental management and performance. Applying the total quality model to these projects helps staff go beyond the question of permit limits to the concept of seeking continuous improvement.

Another positive step is the move toward environmentally conscious manufacturing in Maine's second largest industry, metal products and fabrication. A partnership has been established between the Maine Metal Products Association, DEP and other state and federal regulators to explore an environmentally conscious manufacturing project. In this project, companies will work directly with a technical assistance team to identify manufacturing alternatives and environmental improvements while responding to the difficult task of defense conversion. The Maine Technical College system will train future and existing workers to implement environmentally conscious manufacturing. Larger companies, including Bath Iron Works and Saco Defense, will provide guidance and support to the technical transfer effort.

Technical support is not restricted to large industry. Maine's small businesses are assisted by the new Small Business Technical Assistance Program. This program helps businesses comply with new Clean Air Act regulations, apply pollution prevention concepts, and seek non-polluting options to avoid costly regulation wherever possible. These efforts will

help companies be more competitive and also improve the environment -- a "win-win" program that is well received by both business and environmental communities.

The Department recently recognized several Maine companies for their efforts to protect and improve the environment by prevention pollution instead of treating it after it was produced. The 1994 Pollution Prevention Award recipients are: Digital Equipment Corporation of Augusta; the U.S. Postal Service in Portland; GS Building Systems Corporation of Pittsfield; Central Main Power Company's Portland and Yarmouth facilities; United Technologies of North Berwick; S.D. Warren, Northeast Timberlands Division in Fairfield; and Great Northern Paper in Millinocket.

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

MAINE WMA

At a ceremony in Washington, D.C. in May, Governor McKernan presented awards to Proctor and Gamble, Scott Paper Company, and IBM for packaging reductions. The companies, along with 43 others, have taken the CONEG Challenge sponsored by the Council of Northeast Governors. These companies have made impressive reductions in packaging, saving over one million tons of packaging waste in 1993-94.

Aseptic Packaging Ban Reversed

The Legislature lifted the ban citing the Aseptic Packaging Council's willingness to support milk carton and aseptic packaging recycling. The industry's efforts in other parts of the country convinced Maine lawmakers that the packaging is recyclable. The ban is lifted on **September 1, 1994**. The agency is required to establish recycling goals for these items and report the amount recycled to the legislature.

Final Waste Paint Management Plan

The main goals of the plan are toxicity reduction and waste diversion. A two-phased program is recommended. Phase I focuses on toxicity reduction and solid waste stream diversion of older more hazardous products. This will involve one-day collections and source reduction education. Phase II focuses on the

longer term objective of providing permanent, regular opportunities for households to manage waste paint.

Municipal Recycling Progress Reports Received

Nearly 450 reports were received and are being checked for accuracy. Municipalities will be notified of their recycling progress this summer. The office will aggregate the recycling amounts reported by the towns to determine the state's progress towards achieving the 50 percent recycling rate. These results will be available in July.

Agency and DEP Joint Newsletter

This newsletter focuses on: landfill closure regulations, construction & demo debris, bulky waste and household hazardous waste issues. Please call (207) 287-5300 if you would like to be placed on the WasteLine newsletter mailing list.

Regional Solid Waste Discussions

Three solid waste forums with municipal officers and representatives from the MWMA and the DEP took place during May and June: local officials from York, Somerset and Washington met with state officials to discuss solid waste issues including the new landfill capping requirements. These discussion forums are the result of the Governor's Solid Waste Advisory Group formed by Maine Municipal Association (MMA) last year. MMA intends to organize another series of forums in the fall for local officials in other regions of the state. For more information, contact Geoff Herman, MMA, (207) 623-8428.

For more information contact: Gayle Briggs, ME WMA, (207) 287-5300.

CONNECTICUT

CONNECTICUT DEP

Site Assessments Underway for Printer and Auto Repair

A site assessment tool developed for the DEP by the University of Connecticut P2 team is

being tested in two source reduction workgroups: printers and auto repair facilities. The assessment tool is a guide for the technical assistance team conducting the site visits. The guide will be modified by comments from facilities in each of the participating industries and the experience of the model project, then published as a self-assessment guide for each of the services in the program.

Turfgrass Managers Implement IPM

The DEP turfgrass managers' workgroup is implementing Integrated Pest Management (IPM) plans developed by the turfgrass specialist at the Corporative Extension Service on test lawns throughout the state. Results of pesticide and fertilizer reductions for the IPM group will be available in late Fall 1994. Success stories of the group's participants will be published and a report on the barriers to IPM and P2 in the industry.

Urban P2 Pilot Project in Planning Stages

DEP will receive a RCRA grant from EPA Region 1 to develop a pilot environmental protection project in an urban neighborhood in Hartford over the next year. The goal of the project is to improve the environment of a low-income, high minority urban neighborhood through P2 strategies and active community participation. The Office of Pollution Prevention is responsible for developing plans and identifying a neighborhood for the pilot project.

DEP will be finalizing an agreement with ConnTAP to provide research, site visits, workshops and a conference for four water discharge pretreatment categories. The three pretreatment industry categories for the project will be textile, copper forming and non-ferrous metals manufacturing. Pollution prevention alternatives to cooling water discharges will be a fourth category.

For more information contact: Mary Sherwin, CT DEP, (203) 566-5217.

CONN TAP

The Connecticut Technical Assistance Program (ConnTAP) has been chosen by the CT DEP to prepare and evaluate P2 guidance documents. The purpose of the documents is to

provide P2 guidance and examples of successful projects for industrial/commercial pretreatment dischargers in the categories of textile, copper forming, and non-ferrous metals manufacturing and also cooling water alternatives. This DEP-funded project will require ConnTAP to research and develop fact sheets with supporting documentation and convene workshops and conferences to disseminate the guidance information. Additionally, an attempt will be made by ConnTAP, via its Site Visit Program, to test the guidance documentation at selected facilities. The planned project completion date is June 1995.

The Spring 1994 issue of the ConnTAP Quarterly was published in May. This issue featured articles on implementing an aqueous system for precision cleaning applications, environmentally friendly chemical replacements for screen printers, and an interview with Jessie G. Stratton, Democratic House chairperson of the Connecticut State Legislature's Environment Committee.

Implementation of P2/Finance, a spreadsheet software system for conducting comprehensive financial analyses of pollution prevention projects, is underway at ConnTAP. P2/Finance will allow ConnTAP to address not only the technical aspects of P2 projects, but financial considerations as well.

ConnTAP is working to establish a "Connecticut Waste Exchange" program to allow New England businesses to offer and obtain surplus/spent materials, which still have value in production processes. The need for this program is evidenced by the significant number of inquiries received by ConnTAP for surplus material referrals. ConnTAP is currently weighing the benefits of signing-on with a regional or national waste exchange program versus establishing an in-house program, using the ConnTAP Quarterly for material advertisement. ConnTAP plans to unveil this program by the end of 1994.

ConnTAP is continuing its successful relationship with the University of Connecticut regarding the use of graduate students as part of the ConnTAP Site Visit Program. The students are part of a retraining program for displaced defense workers. ConnTAP's new summer intern will work as part of a team with Site Visit retirees to conduct on-site assessments. The

intern's experience with ConnTAP will count toward the student's environmental engineering master's degree.

For more information contact: Rita Lomasney, ConnTAP, (203) 241-0777.

EPA REGION 1

Initiatives

Mark and Abby are spending much of their time these days helping a cross-program team develop one of RA John DeVillars' four main priorities for EPA-New England: "helping the regulated community be better environmental citizens." We have conducted four "focus groups" to get input on which aspects of the regulated community we should target, and what activities we should engage in. Two of the four focus groups were composed of representatives from industry, business associations, environmental consulting, academia, and state programs; one was composed of state P2, regulatory and water system reps; and the last was an "inreach" group consisting of EPA inspectors, permit writers and other program staff. We very much appreciate our trusty state P2 counterparts taking the time to come in and lend their expertise. We heard a wide range of ideas from the groups and will now help an internal work group synthesize this information into a set of projects to pursue in late FY94 and FY95. Mark is also working on John DeVillars's initiative to "foster New England's environmental industry."

Grants

P2 Task Force review of Pollution Prevention Incentives for States (PPIS) grants pre-applications is now complete, and our recommendations have gone to RA John DeVillars for approval. We received 24 applications competing for the \$550,000 we are offering. Applicants -- both successful and unsuccessful -- will be hearing from us very shortly.

Planning

Development of FY95 P2 workplans is proceeding fairly smoothly in each Division, even in the midst of change and competing priorities presented by the new Regional administration. Draft workplans will be complete by mid-July.

Training

Upcoming monthly P2 Technical Seminars for EPA compliance, permitting and enforcement staff include one session on surface coating technology (June 16) and one on cooling water (July). State participants are welcome at these sessions; we plan to continue offering a different topic every month.

Voluntary Programs

Harvard University's John F. Kennedy School of Government joined EPA's Green Lights program in April, and is expected to save 570,000 kWh per year.

Also in April, Gillette and Polaroid agreed to participate in EPA's voluntary program to reduce greenhouse gas emissions domestically (Climate Wise Program) and internationally (the U.S. Government's Joint Implementation Program per the Rio Framework Convention on Climate Change).

Synergy Investment of Peabody, MA is marketing a hardware product for home or office use that can retrofit "energy hog" computer monitors and laser printers to improve their efficiency, enabling them to achieve the specifications of EPA's "Energy Star" program.

EPA hosted a day-long Green Lights workshop in May for Massachusetts municipal utilities. The workshop was designed to encourage municipal utilities to join the Green Lights Program (and eventually Energy Star Buildings Program) and make use of the Program's free tools and support materials to design and implement their own, customized efficiency services programs.

Environmental Equity

EPA staff are meeting with Tufts, City Year, and Dudley Street Neighborhood Initiative reps to develop a comprehensive environmental project focused on Roxbury, MA. Facets may include: open spaces revitalization; soil, air and water contamination hazards (indoor and out); and energy and water conservation. Community groups will review plans and provide feedback.

Transportation

The New England Transportation Initiative (NETI) continues! NETI, funded by the Intermodal Surface Transportation Efficiency Act (ISTEA) and organized by the six New England Departments of Transportation, is examining opportunities for encouraging intermodal connections in the Region. They are currently creating an inventory of our existing transportation network.

Enforcement and P2

Wyman-Gordon, Inc., of North Grafton, MA will pay a \$137,955 penalty and has agreed to a Supplemental Environmental Project (SEP) to reduce its use of two dangerous acids to settle a complaint filed by EPA alleging that the company violated Section 103 of CERCLA and Sections 312 and 313 of EPCRA. Wyman Gordon manufactures forged metal components. Officials at the facility have agreed to construct a \$474,000 acid purification and recovery system to recover 80 percent of the hydrofluoric and nitric acid from its waste acid stream. This will reduce the amount of waste disposed offsite by approximately 130,000 gallons per year.

Pit Stops Project

The states of New Hampshire and Vermont held workshops during the spring for auto repair shops. Connecticut and Rhode Island will hold their workshops in the fall. The poster for auto repair shops has been completed and is being shipped to states and trade associations for distribution across New England. Copies of the poster are available from Sally Mansur, EPA Region I, (617) 223-5529. The slide show and audio tape are now scheduled for production and distribution to the states this summer.

WasteWiSe

The Waste Management Division is working to identify Fortune 1000 corporations interested in participating in this national solid waste reduction challenge program. To date, five charter members have been signed up in New England. Interested participants and others should contact Cynthia Greene, EPA Region I, (617) 223-5529.

Procurement Guidelines

A comprehensive procurement guideline for 21 recycled products was published for comment in the Federal Register in April. Copies of the guideline were sent to the 112 members of the Boston Federal Executive Board (BFEB) during the spring to educate them about this issue. Additional contact with the BFEB is anticipated this summer when draft guidance on procurement of environmentally preferable products is published by EPA Headquarters.

For more information contact: Sally Mansur, EPA Region 1, (617) 223-5529.

EPA REGION 2

In response to requests, over 50 application kits were sent out for Region 2's Pollution Prevention Incentives for States grant program. The postmark deadline for proposals was June 3, 1994.

Region 2 met with staff from the Office of Policy, Planning and Evaluation (OPPE) to discuss, among other things, how OPPE could better serve the Region's P2 program. The following suggestions were recommended:

- OPPE serve as a central point for communicating P2 initiatives among the program offices;
- the two FTE for P2 in OPPE become more visible; and,
- OPPE highlight the work of their Futures Group that addresses issues surrounding pollution prevention and sustainable development.

On May 5, Region 2 hosted a meeting with NEWMOA and Region 1. Later that day Terri Goldberg (NEWMOA) gave a presentation as part of Region 2's Pollution Prevention Lecture Series. She discussed the training she offers on total cost accounting for pollution prevention projects. On May 26 Terri offered the training at Federal Plaza to 18 participants from state and local agencies in New York and New Jersey.

In late May, the Northeast Sustainable Energy Association (NESEA) held the kickoff to Tour de Sol, their annual solar and electric vehicle race at Battery Park City in downtown Manhattan. Several EPA staff people volunteered for NESEA. In addition, Region 2 had an information booth at the event and

Deputy Regional Administrator Bill Muszynski was among the invited speakers.

On June 16, Peggy Lauer from the Resource Renewal Institute spoke at Region 2's Pollution Prevention Lecture Series about Holland's "Green Plan."

Three facilities participated in a P2 assessment conducted for Region 2 by SAIC: Harrison Radiator - GM; Toshiba; and Diaz Chemical Corp. The status is as follows:

- Harrison Radiator - GM Currently, SAIC is going to modify the report because the facility was not pleased with the report. SAIC and GM agreed that the report will be available by the end of July or the beginning of Aug.
- Toshiba Because of other ongoing projects, there has been a delay of the report. The manager of the Toshiba facility states that EPA should get a response from them by the end of June.
- Diaz Chemical Corp. The report dated April 22, 1994 did not address any type of commitment to P2. Although they were pleased with the report, they do not plan to implement any of the P2 activities recommended in the report at this point due to cost considerations. They do hope to use the report as a reference tool in the future. There are apparently other P2 activities Diaz had undertaken prior to the assessment. Region 2 is encouraging them to submit write-ups of these activities.

Once all of the reports are submitted, we would like to include the findings and recommendations in the Pollution Prevention Clearinghouse. (contact: Dennis Contreras, (212) 264-9826)

During July, the NJ DEPE intends to submit to public notice the draft facility-wide permit for Schering-Plough's Kenilworth facility, located in Union County, New Jersey. 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 Schering's P2 Plan. EPA Region 2 has reviewed the draft permit and transmitted comments to NJ DEPE in early June. (contact: Richard Yue, 212 264-9399)

WPCB is currently involved in the Regional Pollution Prevention in Pretreatment Awards. This is the Second Annual offering of

this award. On April 18, 1994, we sent a call for all pretreatment coordinators in New York State to submit success stories, source reduction plans, and information on inspection techniques used to identify P2 opportunities; educational activities; or public outreach. Entries are due by September 1, 1994. (contact: Virginia Wong, 212 264-1262)

Region 2 hosted a briefing by students from the School of International and Public Affairs (Columbia University), who provided EPA staff with information on the research they have conducted on sustainable development in New York City. (contact: Marina Stefanidis, 212 264-2737)

Region 2 represents EPA on the Northeast Technical Advisory Panel for the Agriculture in Concert with the Environment (ACE) grant program, which EPA cosponsors with the Dept. of Agriculture. The Committee met from March 19-22 the Committee. Recommendations were issued to the Administrative Council, which made the final funding decisions. (contact: Harry Wells (EPA HQ), (202) 260-4472)

For more information contact: Janet Sapadin, EPA Region 2, (212) 264-1925.

NEW POLLUTION PREVENTION PUBLICATIONS

The following is a list of new publications on P2 and where you can order them:

Cleaning and Degreasing Process Changes, U.S. EPA, Office of Research and Development, EPA/625/R-93/017, February 1994, CERI (513) 569-7562.

Organic Coating Removal, U.S. EPA, Office of Research and Development, EPA/625/R-93/015, February 1994, CERI (513) 569-7562.

Guide to Cleaner Technologies, Alternatives to Chlorinated Solvents for Cleaning and Degreasing, U.S. EPA, Office of Research and Development, EPA/625/R-93/016, February 1994, CERI (513) 569-7562.

EPA Pollution Prevention Accomplishments: 1993, Policy Leads to Action, U.S. EPA, Office of the Administrator and Office of Pollution Prevention and Toxics, EPA/100-R-94-002, Spring 1994, (202) 260-1023.

State Pollution Prevention Initiatives Utilizing Media-Program Grant Flexibility, U.S. EPA, Office of the Administrator and Office of Pollution Prevention and Toxics, EPA/100-R-94-001, March 1994, (202) 260-1023.

Summary of Case Studies with Economic Data (By SIC Code), U.S. EPA, Office of Pollution Prevention and Toxics, EPA 742-S-94-001, January 1994, (202) 260-1023.

"Compendium of Products Developed Under the Pollution Prevention Incentives Grant Program," U.S. EPA, Office of Pollution Prevention and Toxics, April 1994, (202) 260-1023.

Stakeholders' Action Agenda: A Report of the Workshop on Accounting and Capital Budgeting for Environmental Costs, U.S. EPA, Office of Pollution Prevention and Toxics, EPA 742-R-94-003, May 1994, (202) 260-1023

Workshop Proceedings: Accounting and Capital Budgeting for Environmental Costs Workshop, U.S. EPA, Office of Pollution Prevention and Toxics, EPA 742-R-94-002, May 1994, (202) 260-1023.

"Pit Stops, Be Aware as You Repair," Poster for auto repair shops, U.S. EPA Region 1, (617) 223-5529.

"Waste Reduction for Spray Painting and Coating," MnTAP, 1993, (612) 627-4646.

"Waste Minimization Research and Educational Institutions," CA Dept. of Toxic Substances Control, 1993, (916) 322-3670.

"Decorative Plating with Trivalent Chrome," CA Dept. of Toxic Substances Control, 1993, (916) 322-3670.

"Critical Parameters, The Warren Project," MA OTA, (617) 727-3260 ext. 692.

"Toxics Use Reduction," Fact Sheet, MA TURI, 1994, (508) 934-3275.

"Design for the Environment" Fact Sheet, MA TURI, 1994, (508) 934-3275.

"Clean Production," Fact Sheet, MA TURI, 1994, (508) 934-3275.

"Alternatives to Petroleum and Solvent-Based Inks," Fact Sheet, MA TURI, 1994, (508) 934-3275.

"Non-Cyanide Plating Processes," Fact Sheet, MA TURI, 1994, (508) 934-3275.

"Alternatives to Solvent-Based Coatings," Fact Sheet, MA TURI, 1994, (508) 934-3275.

CALENDAR

Title	Sponsor	Date/Location	Contact
Pollution Prevention Across the Curriculum: Educating Tomorrow's Workforce	State Of Utah, DEQ, Office of Planning and Public Affairs	August 11-12 --	(801) 530-0933
Pollution Prevention Assessment Training	P2 Center for Excellence	August 17-19 -- Minneapolis, MN	(612) 379-5995
Cleaning Technologies for Industrial Applications: Evaluating and Selecting Aqueous, Semi-Aqueous, and Solvent Systems	VT DEC	September 21 -- Holiday Inn, Rutland, VT	(802) 241-3888
Environmental Conference and Governor's Awards for Environmental Excellency in Pollution Prevention: Achieving Prosperity Without Pollution	VT DEC	October 4 -- Raddison Hotel, Burlington	(802) 241-3888
1994 Rhode Island Pollution Prevention Conference and Exposition	RI DEM and Narragansett Bay Commission	October 19-20 -- Rhode Island Convention Center	(401) 277-6680 (401) 277-3434
Changing the Course of Production: A Student-Faculty Conference on Pollution Prevention in Manufacturing and Services	NEWMOA	October 22-23 -- Massachusetts Institute of Technology	(617) 367-8558
1994 International CFC and Halon Alternatives Conference	Alliance for Responsible Atmospheric Policy	October 24-26 -- Washington Hilton and Towers	(301) 695-3762
1994 TRI Data Use Conference	NEWMOA	December 5-8 -- Boston Park Plaza Hotel	(617) 628-9297
Industrial Ecology: The Year in Review	John F. Kennedy School of Government - Harvard University	December 8 -- Fainsol Room, Littauer Building, 3rd floor at the Kennedy School	(617) 495-8132

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NEWMOA'S P2 PUBLICATIONS

P2 Successes, A Compendium of Case Studies from the Northeast States, 1993, \$30 (\$15 for nonprofits & government agencies).

Guide to State P2 Technical Assistance Programs in the Northeast, 1993, \$15 (\$7 for nonprofits & government agencies).

Northeast States P2 Roundtable: A Directory of Participating Programs, 1993, \$10 (\$5 for nonprofits & government agencies).

Source Reduction of Toxic Metals in Household Batteries: Federal, State & Industry Initiatives, 1991 Report and 1993 Update, \$30 (\$15 for nonprofits & government agencies).

Lead, Cadmium & Mercury in Hospital Solid Waste: A Scoping Study, July 1992 Report, \$30 (\$15 for nonprofits & government agencies).

Costing & Financial Analysis of Pollution Prevention Projects: A Training Packet, 1992, \$40 (\$20 for nonprofits & government agencies).

Measuring State Pollution Prevention Program Effectiveness in the Northeast: A Working Paper, 1992, free.

A Practical Guide to Pollution Prevention in the Northeast, 1993, we have a limited supply of free copies.

Northeast States Pollution Prevention Roundtable Training Handbook, 1993, \$80 (\$40 for nonprofits & government agencies).

Pollution Prevention Measurement at Facilities: Status of the Northeast States' Programs, 1993, we have a limited supply of free copies.

Sources of Hazardous Waste Shipped for Incineration, Landfill or Stabilization: Using Biennial Report Data in the Design of Waste Reduction Services in New Hampshire, 1993, \$14 (\$7 for nonprofits & government agencies).

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