



NORTHEAST STATES POLLUTION PREVENTION NEWS

NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION
(NEWMOA)

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Summer - Fall 1995

NORTHEAST STATES P2 ROUNDTABLE

As you can see, we combined the summer and fall 1995 issues of this newsletter into one. We did not publish a separate summer issue because we did not hold a meeting of the Northeast States P2 Roundtable in the summer at the request of the states.

P2 Evaluation Study

During the last meeting of the NE Roundtable in May, the group decided to participate in a national pilot study evaluating the effectiveness of various P2 programs in the region. The study, which is funded and managed by EPA Headquarters, will involve interviews with company representatives, discussions with state and local P2 program staff, analysis of available data, and review of existing literature and studies. It is designed to provide insights into efforts that have motivated companies to reduce their generation of wastes and pollutants at the source. A version of the study is scheduled to be released by the end of the year.

The NE Roundtable members are providing assistance, advice, data and case studies for use in the study. Since the NE Roundtable meeting in May, the group has held several conference calls to scope out the study and provide EPA with an overview of the data and information that each state has available. In addition, staff from two Northeast state P2 programs are working on the study full time for EPA.

Publications

For those of you interested in the Toxics Release Inventory (TRI), EPA has published the proceedings from the 1994 TRI Data Use

Conference that NEWMOA organized in Boston last December. NEWMOA compiled and edited the Proceedings as part of the grant from EPA to conduct the conference. The theme of the conference was, "Building TRI and Pollution Prevention Partnerships." Copies of the Proceedings can be obtained by contacting the EPA EPCRA Hotline at (800) 5350-0202.

Meetings

The NE Roundtable is sponsoring several training workshops and conferences this Fall and Winter. In October, the group is planning a three-day session, called "Skillful Change Agents" to be held in Sturbridge, MA. This session is designed for state and local P2 program staff only.

In November, the group is tentatively planning two workshops a two-day session on P2 in Paper and Soft Plastic Coatings Operations to be held in Wakefield, MA early in the month; and a one-day session on P2 in Permitting later in the month. The Surface Coatings Workshop is designed for federal, state and local P2 program and regulatory compliance staff involved in providing assistance, inspections or permits

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for companies with these operations. The P2 in Permitting workshop is designed for federal and state permit writers to provide them with skills to begin to incorporate P2 principles into the permitting process.

Finally, NEWMOA is organizing its annual EPA/NEWMOA Training and Technology Transfer Meeting for November 30 and December 1, 1995 near Lake George, NY in the Adirondacks. The agenda will focus on hazardous and solid waste, waste site clean-up and P2 topics. This year for the first time, NEWMOA will be conducting training sessions as part of the agenda and having multiple computer software and database demonstrations. This conference is designed to provide training for federal and state environmental program staff and management.

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

CONNECTICUT

CONNECTICUT DEP

Commissioner Announces New P2 Committee

The CT DEP embarked on a new effort to reduce pollution through a cooperative process that involves members of business, industry and the community. On July 13, 1995 Commissioner Sidney Holbrook convened a Pollution Prevention Advisory Committee to assist DEP in developing a Pollution Prevention Strategic Plan over the next six months. The Commissioner selected Jack E. McGregor, President and CEO of the Aquarion Company, located in Bridgeport, to head the Committee.

The DEP's proposed plan will target a number of pollutants that come from commercial, industrial, agricultural or residential sources. Strategies will be proposed for all sectors, e.g. consumers will be educated on the proper use and disposal of hazardous chemicals; manufacturers will be assisted in designing processes that produce fewer hazardous by-products; and businesses will be introduced to alternative inputs that reduce their use of hazardous raw materials. Participation in the pollution prevention program emphasizes voluntary participation.

Hartford Neighborhood Environmental Project Off the Ground

The Hartford Neighborhood Environmental Project is the DEP's new urban pollution prevention initiative to help residents and businesses to prevent pollution in their communities. The DEP will be working with two city neighborhoods building environmental committees, designing projects to educate consumers and businesses on waste prevention and measuring results. Neighborhoods will focus on goals, such as voluntary reductions of pollutants produced by neighborhood businesses, reduction of pesticides through better pest management practices, improvement in demolition and construction practices, and/or increased recycling.

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-New England and Region II and the northeast states.

We appreciate hearing comments and suggestions 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 Parisky Group, a Hartford-based project management firm with over ten years experience supporting community development and health projects, has been hired to work with the DEP and the neighborhoods. They will organize, plan and help people in the neighborhood implement pollution prevention.

Pit Stops Conferences for Vehicle Repair Facilities

The Office of Pollution Prevention and the Bureaus of Air, Water and Waste, along with five co-sponsoring trade associations, produced a series of eight conferences and trade shows in four regional locations of the State. The Pit Stops conferences for vehicle repair and body shops were attended by over 400 auto dealers, independent repair and body shop owners, truck fleet managers, bus fleet managers and service technicians, as well as vendors. Pit Stops speakers presented multi-media pollution prevention and environmental regulatory information tailored to the industry. Vendor information and DEP Pit Stops fact sheets were distributed. Attendees also attained immediate benefit from the series when they were able to clear up long standing confusion on specific regulatory issues by discussions with the regulatory staff.

New Telephone Area Code

CT DEP's new area code is 860, effective October 1, 1995.

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

CONN TAP

ConnTAP is currently immersed in the planning of a major conference focusing on minimizing industrial water use. Under contract by the Connecticut DEP, ConnTAP is developing water conservation fact sheets and case study documents for a variety of industry types. The conference date has been set for November 16, 1995 at the Bristol Radisson Inn, CT. The conference agenda is currently being finalized, as is the list of speakers. The Connecticut DEP's Commissioner, Sidney Holbrook, has accepted an invitation to speak at the conference.

ConnTAP will again co-sponsor (with CAMF) the 10th Annual Connecticut Pollution Prevention Conference in October (formerly the "Metal Finishing" conference). The conference will take place at the Ramada Inn in Meriden, CT.

ConnTAP has purchased the image version of INMAGIC Plus software for our resource center. ConnTAP's goal is to have the software loaded and current holdings converted by the end of this year. Entry of new documents can then commence after the new year.

ConnTAP's 1995 Matching Challenge Grant Program is in full swing. Four grants totalling \$15,000 have been awarded. This year's grants focus primarily on industrial water conservation issues. Final reports should be available next Spring.

Zinc Phosphate Replacement Study

A 1994 Matching Challenge Grant report is now available from ConnTAP. The study details a Connecticut manufacturer's efforts to replace zinc phosphate with less toxic iron phosphate.

ConnTAP Quarterly

The Spring and Summer 1995 issues of the *ConnTAP Quarterly* have been published. The Spring 1995 issue presented a pollution prevention financial analysis project as the cover story. This article ties-in ConnTAP's P2/FINANCE financial analysis service. An interview with Connecticut DEP Commissioner Sidney Holbrook is featured. This issue also includes information on fuel cells from UConn Environmental Research Institute, a discussion of powder coating technology, and tips on industrial water conservation. ConnTAP Materials Exchange listings are located on the back cover of this issue. The Summer 1995 *ConnTAP Quarterly* includes a case study on the Delta Rubber Company Matching Challenge Grant project and a subscriber survey. ConnTAP will publish the survey results once they are collected and analyzed.

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

MAINE

MAINE DEP

P2 Destinations on the World Wide Web

If you have access to the Internet and a World Wide Web "browser" (such as Netscape or Mosaic), you can now access several Internet "destinations" through the State of Maine DEP's P2 Home Page. This Home Page on the Internet's World Wide Web (WWW) is dedicated to Pollution Prevention, and you can use it to jump to 21 destinations full of P2 information. You can access GENIE (Global Environmental Network for Information Exchange), the Georgia Pollution Prevention Program, or the Australia Cleaner Production Database and many others. Further, there is access information (telephone numbers, email addresses, etc.) on 29 bulletin board systems (BBS), hotlines, Telnet destinations, gopher servers, and "list servers" that provide P2 information, but are not available through the World Wide Web. For example, two bulletin board systems dealing with alternatives to solvents are HSSDS (Hazardous Solvent Substitution Data System) and Oznet.

You should check these destinations out. Note that this list was developed by a P2 consultant (Massachusetts Certified Toxics Use Reduction Planner) so that Maine's P2 staff would not have to spend gobs and gobs of time surfing the Internet and never catching a wave. In general, these destinations are dedicated to Pollution Prevention. They were not placed on this list simply because they dealt with "the environment".

How to Reach Maine's P2 Home Page With a World Wide Web Browser

Get to the Home Page of the State of Maine DEP and then click on "Pollution Prevention Information". This brings you to the P2 Home Page. From there click on "Pollution Prevention Resources". This will give you a list of destinations that you can click on or read about.

The Internet Addresses

Maine DEP Home Page:

<http://www.state.me.us/dep/mdephome.htm>Maine

P2 Home Page:

<http://www.state.me.us/dep/p2home.htm>

How to Get Information If You Do Not have Access to the Internet

Contact Maine DEP's Office of P2, Peter Moulton, (207) 287-8161. You will be mailed or faxed a list which gives the name of the "destination" (BBS, WWW site, Internet address, hotline, etc.), the access information (phone number, etc.) and a short description of each of the destinations.

Special Note on Access

A lot of destinations are accessible via many approaches. You can access them through the WWW, Telnet, bulletin boards, etc. If you do not have or do not like the WWW, but you do have occasional access to it, then try the following: (1) get to the destination via the WWW; (2) look on the first page or on some page labeled "Introduction" or "General Info"; (3) There will usually be information on all the different ways to access the destination. Write down what you need (modem, telephone #, Telnet address, etc.). (4) Use that information the next time you want to get to that particular destination.

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

ENVIRONMENTALLY CONSCIOUS MANUFACTURING

The Maine Metal Products Association, Environmentally Conscious Manufacturing (ECM) Project will be sponsoring a half-day seminar on EPA's proposed effluent guidelines rule for the Metal Products and Machinery (MP&M) industry. This proposed rule, published in the *Federal Register* at the end of May, will affect thousands of metal products companies by limiting what they can discharge to the sewer. This seminar will focus on pollution prevention strategies to help comply with the new rule and include presentations on:

- what the regulation means and who it will affect
- how the local treatment plants (POTWs) will implement the rule
- pollution prevention and low cost treatment techniques to help you minimize the impact of the rule

- case studies on companies that have been successful in implementing pollution prevention to eliminate or minimize waste streams.

The seminar will be held on October 5th in Portland, Maine at the Sheraton Tara.

For more information contact: ECM Project, (207) 871-8254.

MASSACHUSETTS

MASSACHUSETTS OTA FOR TUR

OTA is participating along with TURI, DEP, Massachusetts Manufacturing Partnership (MMP) and Bay State Skills Corp. (BSSC) on a collaborative project called "Better, Faster, Cheaper and Cleaner Manufacturing in Massachusetts."

OTA published a summary report on The Merrimack Project. The report discusses OTA's work on this three-year, EPA-funded project and includes an appendix called "True Tales of Technical Assistance," which details the specifics of OTA's work with several companies. The results of the Merrimack Project include an informal survey that found that 10 companies together eliminated nearly 1.7 million pounds of toxic pollutants and 18 companies together reported savings of \$1.85 million attributed to P2 project. The report also details OTA's role in helping to start the Northeast Business Environmental Network (NBEN), a network of business, government and environmental advocate representatives that work together to promote pollution prevention as means of improving both the environment and the economy. Additional copies of the report are available.

The Northeast Business Environmental Network Inc. (NBEN), with support from Bay State Skills Corp, has hired administrative support. OTA had been organizing meetings, conferences, etc., essentially serving as staff for the network. Although no longer in that role, OTA will still be an active participant in the organization and represented on the Board of Directors.

In late May, OTA sponsored a one-day conference called "Solventless Coating with

Electron Beam Technology." The conference included presentations on e-beam technology and how it works; regulatory obligations associated with conventional technology vs. e-beam; a site visit to Energy Sciences Inc., which manufactures the technology; and low-interest, long-term financing options for the purchase of the technology. Ninety people attended the conference and evaluations were very positive. Part of the reason for this conference was to identify web coaters interested in participating in a demonstration project to test the practical application of this technology for small and medium-sized firms. Three coaters have expressed interest in the demonstration project, including two who attended the conference. OTA's role will be to evaluate the effectiveness and practicality of e-beam technology for these firms and write case studies about their experiences. Northeast Team Leader Ken Soltys is the lead on this project and can be contacted for more information.

OTA staff made presentations at the National Air Toxics Conference in Durham, N.C. in August about the opportunity for building cooperative partnerships presented by the Small Business Assistance Programs and new MACT requirements. George Frantz will address the Mass Autobody Association as its annual meeting in October.

Financial Analyst Dick Torborg in cooperation with NEWMOA led two financial workshops (the second by popular demand) in September similar to one presented last March. The workshops are aimed at the financial managers as well as environmental managers of manufacturing firms and use the case study method to explain how to account for P2 projects in the capital budgeting process.

OTA conducted training for DEP inspectors on how to incorporate TURA language in permits. The training was based on a review of more than 200 permits. Southeast Team Leader Rich Bizzozero, who is leading this project, is scheduled to lead a NEWMOA workshop in November on incorporating P2 into permits.

OTA collaborated with the MWRA to sponsor a workshop titled "Water Conservation and Toxics Use Reduction - Make It Happen!" Barbara Kelley delivered a keynote address and

Dick Torborg presented during a session on ways and means of financing TUR projects.

John Raschko is coordinating OTA's participation in the Strategic Environment Technology Partnership (STEP) program. STEP is a cooperative effort among the state's executive offices of environmental and economic affairs and the University of Massachusetts to support developers of new environmental and energy-efficient technologies. OTA will help assess new technologies. In addition, John is coordinating OTA's work with the National Environment Technology for Waste Prevention Institute (NETI) based at U-Mass, Amherst. Based on the staff's field work with companies, OTA will give NETI suggestions for areas in need of applied research.

OTA staff spoke at a regular meeting of the Massachusetts Fire Prevention Association. This is part of OTA's effort to reach businesses, particularly small businesses, by educating municipal health, safety and licensing officials who can refer companies to OTA.

OTA's case studies are now available on-line through the NBEN/MRI World Wide Web site on the Internet (Address: <http://www.civic.net:2401/NBEN/nben.html>) The web site offers users P2 and regulatory information, a calendar of events, and direct links to other sources of environmental information available on the Internet. OTA chaired the committee that developed this project. TURI has been an active and key participant and has hired a part-time research engineer to conduct on-line searches upon request.

OTA has been asked to write a monthly column on environmental issues for "Manufacturers' Mart." The teams are rotating submitting columns on technical topics and case studies. Rick Reibstein authored an editorial on changes in environmental agencies that was on the front page of the September issue.

OTA is continuing work on an EPA-funded project to find and address the use of chemicals in the school environment and related indoor air quality problems. Project coordinator Lisa Dufresne has visited several schools and written site reports. In addition, she is putting together an agenda for site visits and sessions with Boston teachers to help the teachers develop

curricula that incorporates pollution prevention. She also has begun work on a document that will provide information and suggestions to towns/cities that are going to build a new school or renovate an existing one.

Other ongoing projects:

- Rick Reibstein is continuing to work with the Common Sense Initiative for the electronics industry on the national level.
- Massachusetts CSI Printers' Project is nearing completion. November is the target date for the public kick-off, with workshops and clinics to educate printers about it to be scheduled shortly thereafter. This program is thought of as a model for DEP's upcoming industry-wide permit simplification project.
- Work on the Clean States project under the EPA grant is complete. The project included site visits to 25 state facilities with recommendations for a range of pollution prevention and improved environmental operations. OTA will continue to work with the Executive Office of Environmental Affairs Clean State Coordinator on a series of monthly follow up training workshops for state agencies beginning in October.

Staff changes:

Environmental Engineer Marina Gayl has moved from the Northeast Team to the Central Region Team, and Southeast Team intern Azin Kaviani is moving into Marina's former position with the Northeast staff.

Arthur Gamache, who has more than 30 years of experience in plant and environmental engineering, has joined the Western Team.

Nancy Phillips, who has worked previously for the EPA in both Boston and Chicago and also for the Nashua River Watershed Association, has joined OTA to work part-time on household hazardous waste issues. She is job sharing with Grace Offen who is scheduled to return from maternity leave in November.

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

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 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) 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.

MASSACHUSETTS TURI

Education and Training

TURI has launched a new initiative to expand awareness and help promote toxics use reduction throughout the Commonwealth. "The Community Education Program in Toxics Use Reduction" (CEPTUR) and a small grants program to encourage Toxics Use Reduction Networking or "TURN" will be piloted this winter. The major thrust of the Community Education Program is to acquaint the public with the concept of TUR and the Massachusetts TURA Program, and to assist the public in learning how to access and use TUR information. CEPTUR was established to address TURI's public education mission, as set forth in Chapter 21I of the Massachusetts General Laws, to provide training and assistance on toxics use reduction to citizens, community groups, workers, labor representatives and local government boards and officials.

The TURN Grants Program, modeled on the Institute's very successful Industry Matching Grants Program, has been designed to encourage partnerships between community groups and industry, and to provide financial support to local organizations and agencies to raise the level of awareness of TUR at the local level. TURI recently sent letters to Massachusetts TURA filers inviting their involvement in the project. Contact Beverly Johnson, project leader at (508) 934-3275 for more information.

Attention TURPlanners seeking continuing education credits! TURI has planned the following continuing education opportunities this fall:

TURPlanner Course. The 1995 Fall TURPlanner Course is full. However, the final day of the course, Industry Specific Training, is open to TURPlanners in need of recertification credits. TUR Planning will be discussed in the context of three industry sectors -- metal finishing, electronics, and another industry sector to be determined. Contact Anne Basanese at (508) 934- 3144 if you are interested in registering for this continuing education opportunity or the next TURPlanner Course.

TURPlanner Interns

TURI will be training TURPlanner Interns to assist companies with TUR planning activities. Licensed TURPlanners who sponsor an intern will have the opportunity to receive continuing education credits toward recertification. TURI is also seeking TURPlanners to advise TURI trainers on instructional design for the TUR Intern training. TURPlanners who, advise the training, will be awarded four continuing education credits toward TURPlanner recertification. Interested companies should contact Steve Greska at (508) 934-3294.

TURPlanner Continuing Education Conferences

Two conferences are coming up this fall. Each one is worth 12 continuing education credits

for the full day of training. The first conference will be held in Sturbridge on October 24; the second will take place in Taunton on December 14. TURPlanners and others interested in attending should contact Anne Basanese at (508) 934-3144 for more information.

Continuing Education Workshops at TURI's Surface Cleaning Laboratory

Two workshops are scheduled at TURI's Surface Cleaning Laboratory at Umass Lowell this Fall. While the first one on Tuesday, September 26 is full, there is space available for the next workshop on Tuesday, November 14. TURPlanners who attend will earn three continuing education credits. Call Anne at (508) 934-3144 for more information.

TUR Papers

If you are interested in writing or publishing a paper on TUR for continuing education credit, contact Bob Tivnan at (508) 934-3248.

P2 Grant

The Massachusetts Manufacturing Partnership (MMP) has received a two-year grant from NIST to integrate the environmental services of TURI, OTA, and DEP into the technical assistance services of the MMP. The proposal leading to this grant was jointly developed by the participating programs. TURI will work with OTA, DEP and the Massachusetts Manufacturing Partnership (MMP) to train and support MMP field agents around P2. A major goal of this project is to increase agent P2 skills and awareness so that environmental issues are part of their consultation with industry on marketing, process efficiency, accounting, quality assurance, etc. Companies will still be referred to OTA for engineering and TUR planning activities. Training will be principally designed to link technical support professionals from all programs for sharing and learning. Information packets will be designed and prepared by TURI for MMP field agents to use and give clients. Jack Luskin and Janet Clark are the TURI project managers.

Online Services

Janet and newly hired Michele Thompson are working hard to unveil "NBEN Online," an Internet-based resource for the Northeast Business Environment Network (NBEN). This

"page" will have many features designed to connect area companies for technology sharing, learning, and business. Included will be discussion groups, heads up notices, a calendar, links to other services and information, and a P2 technology list-serve. Especially unique will be Michelle's role as online reference engineer/librarian to ensure success in user searches for P2 information. Call Janet at (508) 934-3346 for the address after October 16, and then check it out!

Janet and Michele are also working to screen more than 95 sites in the Internet to find the best sources of technical information about P2, in order to create a tool for everyone to use. The resulting directory will have "links" that allow you to go directly to sources. Send us your suggestions! Look for a live product in late October.

USEPA Grant

The development of a curriculum and training manual for garment wet cleaning alternatives to perchloroethylene dry cleaning is well under way. TURI received a grant from the USEPA's Design for Environment program to work in conjunction with a similarly funded demonstration project managed by the Center for Neighborhood Technology in Chicago. Teena Manning has joined the staff to develop the curriculum and coordinate the training. The course will be piloted in the spring.

Wet Cleaning Workshop

Jodie Siegel, TURI technical support associate, had been invited by the Rochester Coalition for Occupational Safety and Health to deliver a workshop to dry cleaners in the Rochester, N.Y. area on Sept. 28. The workshop, entitled "Wet Cleaning as an Alternative to Traditional Dry Cleaning," introduced participants to wet cleaning and associated developments in the garment care industry. Topics included incentives for change, project history, information on process, equipment and skills, and case studies. Approximately 10 dry cleaners attended the three-hour session.

Demonstration Project

EPA New England's NEEATeam has provided a grant for TURI to develop a demonstration of "Near-Zero VOC Lithographic Ink and Blanket Wash Systems." Deluxe

NEWMOA would like to thank the following people for writing and producing this newsletter: Mark Arienti, Robert Brown, George Frantz, Gary Gulka, Judy Jakobsen, Tristyne Jones, Vince Perelli, Jim McCaughey, Vince Perelli, Jeff Potent, Lisa Regenstein, Janet Sapadin, Mary Sherwin, Abby Swaine, Mary Werner, Susan Zalot, and Terri Goldberg. Special thanks to Lois Makina at NEWMOA for typing the newsletter. Terri Goldberg managed production of the newsletter.

NEWMOA'S P2 PUBLICATIONS

Financing Pollution Prevention Investments, A Guide for Small and Medium-Sized Businesses, 1995, Free.

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

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

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

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

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

Improving Your Competitive Position: Strategic and Financial Assessment of Pollution Prevention Projects, A Training Manual, 1994, \$15 (\$7.50 for nonprofit & government agencies).

Improving Your Competitive Position: Strategic and Financial Assessment of Pollution Prevention Projects, An Instructor's Guide, 1994, \$30 (\$15 for nonprofit & 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 nonprofit & 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 nonprofit & government agencies).

For more information on ordering NEWMOA reports, please call Lois Makina, (617) 367-8558.

Printwise of Minnesota is one such system. Jodie is working with Goldman Environmental Consultants to identify other manufacturers of such systems and lithographic printers who are willing to participate in a six-month study. The study will include technical, economic and environmental evaluations as well as performance surveys

Appointments

Jodie has been appointed to a one-year term on the Board of Directors of the Northeast Business Environmental Network, a regionally-focused group of businesses and others dedicated to mutual self-help, and to the idea that understanding process, equipment, and materials leads to improvements in both the environment and the bottom line.

Matching Grants

TURI's Industry Matching Grants Program has awarded four grants totaling \$50,000 to the following Massachusetts companies for FY96:

- Malden Mills Industries, Inc., Lawrence \$20,000 Adjustment of pH in the Textile Dyeing Process: Carbon Dioxide as a Substitute for Acetic Acid.
- Raffi and Swanson, Inc., Wilmington \$20,000 TUR in Batch Cleaning Processes: Cleaning Alternatives for Adhesives and Coatings Process Reactors.
- M/A-COM, Inc., Lowell \$5,000 Implementation of a Design for the Environment Program in the Electronics Industry
- Commonwealth Sprague Capacitor, Inc., North Adams \$5,000 Aqueous Degreasing for Electronic Components Manufacturing

Final reports from FY95 projects are being completed and will be available this fall. FY95 topics include in-process acid recycling using diffusion dialysis, electroless nickel bath life extension using electro dialysis, and design for the environment.

Research Fellows

TURI has also awarded three Research Fellowships to UMass Lowell graduate students

for the 1995-96 academic year. TURI's Research Fellows program, now in its fifth year, is designed to stimulate the development of creative technologies, methods and policies for reducing toxic chemical use and to provide students and faculty with the opportunity to learn about toxics use reduction. This year's fellows include one doctoral and two master's degree students from the Departments of Work Environment, Chemical Engineering and Mechanical Engineering. Project topics include closed-loop aqueous cleaning, no-clean soldering for printed wiring boards, and development of a substitution analysis methodology.

Surface Cleaning Laboratory

TURI's lab continues to respond to requests from Massachusetts industry for assistance in testing and evaluation of aqueous cleaning alternatives. A list of 24 companies that have received or are receiving lab services, and brief descriptions of their applications, is available by contacting the Institute. For more information contact: TURI's main number, (508) 934-3275.

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

NEW HAMPSHIRE

NEW HAMPSHIRE DES

DOT Assessments

In May NHPPP staff, in conjunction with several other NH DES staff conducted a training session for a group of NH Department of Transportation (NH DOT) Administrators. The training provided information on pollution prevention and solid and hazardous waste requirements that might be applicable DOT operations. At the meeting it was decided DES would provide "informational" inspections at several DOT facilities. Based on those inspections, DES would create and provide pollution prevention and waste management training workshops addressing the specific needs of DOT facilities. While several site visits were completed during May, the follow-up workshops have not yet been provided.

On-Site Assessments

Six on-site pollution prevention opportunity assessments were conducted during

May through August. Because of several regulatory integration initiatives at the DES (i.e., pollution prevention referrals by regulatory staff and pollution prevention referral language in "Letters of Deficiency"), the number of on-sites has grown over the last six months. NHPPP staff visited a small paper mill that manufacturers recycled paper products, a manufacturer of nickel molds for the automotive industry, a metal salvage yard, a speciality paper coating facility, a 300-person county nursing home/prison facility, and a manufacturer of industrial chillers/water coolers.

Governor's Award

NH Governor Stephen Merrill has officially endorsed the *1996 NH Governor's Award for Pollution Prevention*. The Governor has been invited to present the pollution prevention awards as part of the April 1, 1996 *Fourth Annual Pollution Prevention Conference* at the New England Center in Durham, NH. As with last year's program, there are three award categories for NH companies based on the number of employees.

P2 Effectiveness Report

The NHPPP has been working with the Northeast states, EPA, and NEWMOA staff in order to provide NH-specific data to be used in the Pollution Prevention Effectiveness study for the Northeast states. Suzi Peck has met with NHPPP staff, conducted a site visit at two NH facilities, and will be contacting several other facilities via phone.

DES/UNH P2 Partnership

The Partnership continues to be an important centerpiece for pollution prevention activities and networking in the state. The Partnership's Advisory Committee, which is "staffed" by a unique array of individuals from a wide variety of organizations and disciplines, met in June to discuss the upcoming Pollution Prevention Internship Program, as well as the Partnership's Curriculum Development Work (which included a meeting with UNH Chemical Engineering faculty), and long-range Partnership goals despite the approaching September 30, 1995 grant end date. An important consensus point for the Committee was the clear need to continue Partnership activities despite the "official" September end date.

The Summer 1995 Internship was a great success, with 16 Chemical Engineering students being placed at 13 facilities. Last year's program served 11 interns and 10 facilities. Unlike last year, the 1995 Internship Program included four small businesses. This is a trend that the Internship Program would like to see increase. Funding for the Interns placed at the small companies and DES came from a Supplemental Environmental Project arranged in a recent Hazardous Waste/Air non-compliance settlement. Cumulatively, the Internship Program has positively impacted 25 Chemical Engineering students and has helped 18 facilities save money and reduce wastes and pollution. The results of the Summer 1995 Internship Program were presented by the students in late August. Attendance and support by sponsor companies was encouraging. Dr. Ihab Farag of UNH's Chemical Engineering Program and Vince Perelli would be glad to discuss Internship Program details with anyone interested in establishing a similar program.

NHPPP "Market Survey"

The NHPPP contracted with a graphics/marketing firm in April to develop, disseminate, and evaluate the results of a market survey to assess the effectiveness of the NHPPP. The confidential survey was designed to ascertain how well the goals and missions of the NHPPP have been communicated to NH businesses, how useful provided services have been, and to determine areas for improvement. Results of the survey are expected by November.

P2 For Municipalities - New PPIS Award

The DES is beginning to gear up for a new pollution prevention outreach project for municipalities. The project is part of EPA's New England Environmental Assistance Team (NEEAT) Initiative for the municipal sector. An intensive round of summer wastewater sampling has been conducted in preparation for a pilot outreach project focused on phosphorous loadings to the Somersworth Publicly Owned Treatment Works. As currently proposed, the project will include a public awareness campaign for phosphorous, in conjunction with outreach to the industrial contributors. General compliance assistance and education is also proposed for NH municipal officials.

Multi-Media P2 Task Force

The P2 Task Force continues to meet on a regular basis. The Task Force is currently working on identifying "multi-media" facilities and making recommendations to the DES' Senior Management Team on methods to enhance coordination between the regulatory programs in order to better promote pollution prevention at these facilities. The Task Force has also been refining the procedure for using P2 promotional language in "Letters of Deficiency."

P2 Legislation

Legislation to formally create and fund a pollution prevention program at the DES will be re-introduced in the 1996 New Hampshire legislative session. The latest version of the bill establishes two permanent positions (Pollution Prevention Coordinator and Small Business Specialist) in the Department, includes a P2 confidentiality provision, and amends the state hazardous waste clean-up fund to provide funding for the program. The bill, which was re-drafted by a subcommittee of the NH House Environment and Agriculture (E & A) Committee, with help from DES staff, will be further reviewed by the full E & A Committee before it is finalized and filed in the Legislature this fall.

Environmental Technology Initiative Grant

DES was one of three recipients in New England to get a grant under EPA's Environmental Technology Initiative. The Department will receive \$70,000 in federal funds to establish an Environmental Technology Coordinator, who will work on identifying regulatory barriers to innovative technologies. Promoting innovative pollution prevention technologies will also be one of the functions of the Coordinator.

Draft Model Sewer Use Ordinance

A draft Model Sewer Use Ordinance (MSUO) has been developed for the City of Lebanon. The MSUO is intended to meet the needs of communities that both have and do not have EPA approved industrial pretreatment programs (IPPs). To meet the varying needs of both types of IPPs (Lebanon currently does not have an approved program), especially with regard to administration and enforcement of federal categorical pretreatment standards, alternate language is presented in the MSUO

appropriate to each specific type of IPP. The Lebanon MSUO is unique in that pollution prevention is an important component that has been built in from the start. Contact George Carlson, Water Supply and Pollution Control Division, Industrial Pretreatment Programs at (603) 271-2457.

Other P2 Activities

From May to August, NHPPP staff attended the following training sessions - World Wide Web Internet Access; Environmental Cost Accounting and Capitol Budgeting; P2 Technologies for Metal Finishing Operations; Reinventing Pollution Prevention; and Clean Air Act Compliance for Solvents Degreasers.

The DES Pollution Prevention Coordinator, along with staff from the NHPPP, The DES Water Supply and Pollution Control Division; and the Small Business Technical and Environmental Compliance Assistance Program, met with representatives from Maine DEP and the Androscoggin Pollution Prevention Program, to discuss the possibility of a joint NH/ME pollution prevention project focused on pulp and paper mills. Maine officials' approached DES to share the results of a successful pilot outreach project for Maine pulp and paper mills and to propose a new joint venture that recognized the interstate pollution issues for mills near the NH/ME border. Resources required to carry out such a project are currently being reviewed.

NHPPP and DES staff from each of the media programs presented a Pollution Prevention/Compliance workshop at the New Hampshire Technical College (Tech) in Berlin. The presentation was based on the "Pitstops" automotive service workshops provided last year throughout the state. This was a pilot workshop and feedback from a post-workshop meeting will be used to set up and provide formal "train-the-trainer" sessions at teacher workshop in Fall 1995. NHPPP staff have been working closely with the Tech teachers, the NH Auto Dealers Association, and other to look at ways to build pollution prevention concepts into automotive service training programs at both the high school and the technical college levels.

NHPPP staff are part of a small workgroup established to held catalog all the pertinent environmental assistance programs

offered in the state. The initial meeting, called by the NH WasteCap Program manager, resulted in a draft source guide of assistance programs in NH which could be distributed to NH businesses and municipalities.

Two members of the NHPPP staff have successfully completed the Massachusetts Toxic Use Reduction Planning (TURP) training course. The information learned will be valuable to the NHPPP's efforts to provide toxics reduction planning assistance to NH businesses, despite the absence of a law requiring businesses to do so.

Presentations

NHPPP staff gave a pollution prevention presentation as part of a week-long, UNH-sponsored pollution prevention training "camp" for disadvantaged high school students of the "Upward Bound" Program. The program was entitled UNH "Discover Pollution Prevention." The training program (linking pollution prevention to an Upward Bound Program) is the only one of its kind in the country and the NHPPP staff were pleased to be a part of it.

NHPPP staff gave a pollution prevention orientation session at the Merrimack Village District Wellhead Committee. The Committee has been aware of increased hazardous waste compliance inspections in their area and wanted to promote P2 as a step District businesses may take to keep in compliance. The Committee will set up a workshop for their business members and invite DES staff to make presentations there.

NH Small Business Technical Assistance Program

The NH Small Business Technical and Environmental Compliance Assistance Program has developed a new guide to help small business become more aware of their environmental responsibilities. The new guide, entitled "The Small Business Guide to Environmental Awareness: A Simplified Approach to Environmental Compliance", can be obtained by contacting Rudy Cartier, NH Small Business Technical and Environmental Compliance Assistance Program, (603) 271-1370.

For more information contact: Vincent Perelli or Kathy Blake, NHPPP (603) 271-2902 or Stephanie D'Agostino, DES-Pollution Prevention Coordinator (603) 271-6398. The NHPPP can

also be contacted via e-mail: des- vp@granite.mv.net!

NEW YORK

NEW YORK STATE DEC

DEC Reorganization

DEC's old Pollution Prevention Unit is now the new Pollution Prevention Bureau, joining the Bureau of Waste Reduction and Recycling to form a new Division of Pollution Prevention and Waste Reduction. John Iannotti retains his leadership of the Pollution Prevention staff. John Willson, previously the Director of the old Division of Solid Waste, is the Director of the new Division. The Pollution Prevention Bureau has greater responsibilities and additional staff than the old Unit, with the addition of a new Section on Waste Minimization, which is supervised by Dennis Lucia.

Workshops

Pollution Prevention Workshops for Small Business and Local Government have been scheduled to be held in November in three western New York counties. These workshops are part of a series that has been described in earlier issues of this newsletter. These workshops are also being planned to be held at five other locations across New York before the end of March 1996. For additional information on the locations and agendas, please contact Linda Shea at (518) 457-2553.

PPIS Activities

The report summarizing the results of our P2 technical assistance needs assessment is ready for distribution. The assessment involved the ranking of seven industry sectors with respect to P2 technical assistance needs in New York State. The results of the ranking are (with greatest need first): metal plating and finishing, printing, paper products, electronics, automotive, wood products, and textiles. We are beginning to develop a series of workshops based on the findings of the assessment. In consultation with EPA Region II, we have decided to conduct four workshops on metal finishing and four on printing. The locations for the workshops were determined based on data we obtained from the NYS Department of Economic Development on industry sector

geographic distributions for New York State. The assessment and workshops are funded by a PPIS grant that we received in 1993. You may obtain a copy of the report by calling Grace Farrell at (518) 457-2553.

Grant proposals submitted in partnership with the Erie County Office of Pollution Prevention and the Suffolk County Water Authority have been funded under the 1995 PPIS grant program. We defer to Tom Hersey and Judy Jakobsen, who prepared the successful proposals, for descriptions of their projects and look forward to working with them as the projects are carried out.

P2 Conference Proceedings

The Proceedings of the 1995 Pollution Prevention Conference, which was held May 17 - 19, 1995, are being printed and copies can be obtained by calling Linda Shea at (518) 457-2553.

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

SUFFOLK COUNTY WATER AUTHORITY

The Suffolk County Water Authority has been awarded a 1995 Pollution Prevention Incentives for the States grant in cooperation with the NYS DEC. This grant funding will be used to develop and implement a pilot on-site technical assistance program for small and medium-sized businesses and industries located in Suffolk County. Through this grant, a long Island Pollution Prevention Partnership will be created that will include the NYS DEC, SCWA and three Long Island Universities - New York Institute of Technology, State University of New York at Stony Brook and Polytechnic University at Farmingdale. The partnership will also link with the Rhode Island Center for Pollution Prevention that will lend staff expertise as a consultant for the development and implementation of the on-site program.

The program will involve using student interns from the partner universities to go out to companies to perform multi-media waste minimization audits that will assist the company to identify ways to reduce their use and ultimately

the need to dispose of toxic and hazardous materials. This will be a free service provided to businesses and industries interested in volunteering to participate in this program. The work for this program is anticipated to start sometime in November.

The Authority will also be looking to hire a source reduction engineer to assist with this grant work. The employment time period would be approximately two years. The candidate for this position should have a masters degree in chemical, environmental or industrial engineering or related environmental management/sciences with specific training and course work related to pollution prevention. The individual should have direct industry experience, and knowledge of manufacturing methods; waste minimization techniques; process flow; materials balance; federal, state, and local regulations; and TRI Form R reporting. Any person interested in this position should either fax (516) 277-4097 or mail a resume to Judy Jakobsen, SCWA, 3525 Sunrise Highway, Great River, NY 11739.

The Authority will also be assisting the NYS Department of Economic Development with their upcoming teleconference on November 15th for chrome electroplaters.

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

NEW YORK CITY ITAC

The Industrial Technology Assistance Corporation (ITAC), pollution prevention program (our Environmental and Energy Management Unit), has been expanded to include an energy efficiency engineer. We are also in the process of developing a materials exchange service to facilitate transactions of waste materials from source companies to other firms to be used as feedstocks. Our unit mission is to provide an array of P2 and recycling services to our industrial clients, to cost effectively minimize environmental impacts and to help companies develop competitive advantage through improved environmental performance. (ITAC is the local representative for the NIST, Manufacturing Extension Partnership.)

Personnel News

Jeffrey Potent has left the New York City Department of Environmental Protection to join ITAC as the manager of the Environmental and Energy Management Unit. Kevin Kelly has left ITAC to study at the Harvard Business School. We are actively seeking to fill Kevin's position as ITAC's pollution prevention field engineer.

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

RHODE ISLAND

RHODE ISLAND DEM

Rhode Island DEM's Pollution Prevention Program continues to work with RI Businesses to help them reduce or eliminate waste at the source. Successful pollution prevention projects are continually being documented in the form of case studies. Eleven new case studies have been added this summer.

A Call for Papers and Presentation

The RI DEM Office of Environmental Coordination and NBC have begun planning the 1996 RI P2 Conference and Exposition. The 1996 conference has been expanded to a three-day format: October 23-25 and will take place at the RI Convention Center in Providence.

You are invited to participate in the 1996 RI Pollution Prevention Conference and Expo. A Call-for-Papers has been sent out to assure that up-to-date topics and issues are addressed at this conference, and vendors of environmental equipment and services are encouraged to attend and display their products and services in the exhibition area. To obtain a Call-for-Papers application, a vendor brochure or other information, contact Jim McCaughey at (401) 277-6680. If you are a vendor and would like to exhibit your technologies, please call today!! Abstracts are due November 30, 1995. Presentation topics include: Regulatory Compliance, Pollution Prevention Technologies and Initiatives, Solid Waste Reduction and Recycling, Industry-Specific Pollution Prevention and Solid Waste Initiatives, Health and Safety, and Environmental Management.

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

NARRAGANSETT BAY COMMISSION

Technical Support Activities

The Narragansett Bay Commission's (NBC's) P2 Program continues to work with local industry helping to resolve waste management problems with pollution prevention techniques. On average, two to three calls are received each week from industry requesting assistance from NBC's P2 staff.

The NBC P2 Program staff have begun formulating Technical Fact Sheets on various pollution and waste management issues and topics. The first of a series of such fact sheets on the topic of pH control has been finalized and distributed to the industrial community. Four more fact sheets on other topics are planned.

P2 and Regulatory Integration

NBC's legal staff continue to refer companies to the pollution prevention staff in order to develop techniques that may be implemented in the place of paying costly fines and penalties. NBC feels that helping companies put this money to use in the form of pollution prevention will eliminate the potential for similar problems occurring in the future. NBC regulatory personnel continue to refer companies to Pollution Prevention staff for assistance and regularly refer newly permitted companies to Pollution Prevention for assistance with reducing or eliminating the generation of waste.

NBC recently sent out a survey form to the regulated industrial community asking a variety of questions on how NBC is perceived as a regulatory agency. More than 100 companies responded to the survey, and on June 15 a meeting was held between industry and NBC to discuss the results of the survey. Based on these results, NBC will be focusing on additional educational outreach efforts in the form of technical workshops, brochures, and fact sheets. By keeping an open line of communication with the industrial community, NBC can more effectively and efficiently meet its environmental goals and obligations.

Research Projects

NBC and URI continue to research effective methods of preventing and controlling the generation of silver bearing waste from photo processing, X-ray, and electroplating operations. Several local business are participating in this study by implementing source reduction techniques and allowing URI students to collect samples of silver bearing waste for pilot testing various ion-exchange resins at URI. Research is expected to continue throughout 1996.

NBC has been tentatively notified by EPA as to the receipt of a PPIS grant to develop an Industrial Pretreatment Operators Pollution Prevention Training Program. This training program will be designed to help industrial pretreatment operators take a pollution prevention approach to complying with waste management rules and regulations. The development of this program is scheduled to begin in October 1995.

For more information contact: James McCaughey, NBC, (401) 277-6680.

VERMONT

VERMONT DEC

The Environmental Assistance Division, which houses Vermont's pollution prevention program, resource conservation and recycling program, and multi-media coordinators for permitting, compliance and enforcement, and policy and planning, has been working on several new initiatives despite significant budget cuts in the current fiscal year.

The Division continues to implement Vermont's Clean State Program, coordinating the development of a Materials Management Plan to guide state policy in environmentally conscious purchasing, procurement and resource use throughout state government. The plan was completed on July 1 and contains a phased-in implementation schedule over the next two years. The Vermont Agency of Natural Resources is preparing a resource conservation and pollution prevention plan for all agency functions. Six teams and over 30 staff persons are currently conducting the environmental assessment.

The Division is currently coordinating the development of a multi-media small business compliance assistance program that consists of an office-based and an on-site assistance element. A small business assistance coordinator has been established and regulatory programs will be implementing a multi-media on-site compliance assistance program to provide a balance with compliance enforcement activities. Policies for program implementation are currently being finalized, including the details of agreements to be signed by participating facilities. Incentives in the form of enforcement discretion and penalty mitigation have been developed. It is hoped that this program will complement and encourage P2 efforts.

The Division is developing its model facilities pilot project and is working with one printer and one vehicle service facility to establish model facilities of pollution prevention and environmental compliance throughout the state. At the end of this one-year project, we hope to have five printers and five vehicle service facilities in the program as model facilities.

The Division has finalized its revised pollution prevention planning procedures that requires toxics use and hazardous waste reduction plans of Vermont businesses. These revisions are in place for the second round of plans, which are due July 1, 1996.

The third annual Governor's Awards Ceremony for Environmental Excellence and Pollution Prevention will take place in October.

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

EPA-NEW ENGLAND

EPA-NE's reorganization will be effective October 1. The P2 Coordinator function and the NEEATeam will be housed in the P2 and Assistance Unit, headed by Dave Webster and Tom D'Avanzo, within the Office of Environmental Stewardship (OES), headed by Harley Laing and Gerry Levy. Although OES will include both enforcement and assistance staff, the NEEATeam's work will be carried out apart from enforcement, allowing us to assure the

regulated community that coming to NEEAT for assistance will not result in enforcement.

EPA is facing possible severe budget cuts, which may result in furloughs, layoffs, and grant/contact reductions. Thus far, P2 grant funds are not targeted by Congress for reductions.

CSI

Progress on CSI varies across the sectors of interest to EPA-NE. Contact Mark Mahoney (617-565-1155) for more information.

The Electronics subcommittee is working on: 1) classification of photoresist skins and other waste streams as F006 hazardous waste; 2) relationship of RCRA and CWA regulation of closed-loop recycling processes; 3) management of discarded equipment; 4) alternative regulatory systems; and 5) revamping reporting and record keeping systems. Electronics/computers leads Christine Bonica and Andy Miniuks are also helping HQ-OAQPS staff and contractors developing pre-MACT standards for the semiconductor industry by giving them on-site experience with how the industry operates in NE.

The Metal Finishing subcommittee is working with NE firms on several projects, many related to regulatory and reporting issues: 1) model a comprehensive environmental management system to ease reporting burden; 2) produce a plain language "shop floor" compliance/P2 manual; 3) develop a replicable process for transitioning Tier 3 firms out of business; 4) demonstrate P2 and compliance audits and amnesty for small firms ("CLEAN").

In the Printing subcommittee, EPA-NE and CSI are financing the development of a compliance/P2 workbook for printers, contracted to SAIC.

NEEAT: A Sampler of Recent and Upcoming Activities

EPA-NE and DOE-Region I will jointly sponsor a "summit" of federal, state and local technical assistance programs in New England in January 1996. The purpose of this meeting will be to avoid redundancy, increase referrals, cross-train, and plan for maintaining and expanding assistance capacity in New England. Mary Dever, 617-565-9408.

Municipalities leads Jack Healey and Charles Conway conducted two-day compliance/P2 training for 200 state and municipal wastewater inspectors and supervisors in MA, RI and ME this summer.

Printing leads Anne Leiby and Sally Mansur will hold a focus group for experts in the customer/printer supply chain on September 27 in Lexington; we hope to learn how EPA can promote P2 and compliance within this supply/demand relationship. They are also beginning to plan a joint workshop for the textiles and screen printing industries.

Mary Dever and Linda Darveau have been working with the EPA Superfund Removal Program to find operating metal finishers that can use chemicals and equipment from defunct businesses that would otherwise be disposed of.

NEEAT held a joint workshop for metal finishers and printed wire board manufacturers on August 24 in Meriden, CT.

Grants

EPA-New England is awarding 11 PPIS grants to begin in FY96:

MA Office of Technical Assistance

TITLE: Pollution Prevention Education and Assistance in Low Income Area Schools (PEALS)

Conduct voluntary audits of schools in low income areas and advise them on how to reduce chemical use and improve indoor air quality. Develop related training package for teachers to use with classes, and train teachers in its use.

Connecticut Technical Assistance Program (ConnTAP)

TITLE: Pollution Prevention Technical Assistance for Connecticut Metal Finishers

Focus ConnTAP's business assistance activities more tightly on metal finishers: hotline, on-site assistance, library, newsletter, and workshops and conferences with trade associations. Will develop compliance/P2 fact sheets to complement self-audit manual produced in 1990. Will establish a CT Business P2 Roundtable.

CT Department of Environmental Protection

TITLE: The P2 Process in Printing

Develop curriculum to train printers to conduct self-audits. Survey small printers to find out what they know and need. Develop curriculum, pilot it, assess what effect it has had on practices, then modify curriculum.

Narragansett Bay Commission (RI)

TITLE: Industrial Pretreatment Operator Pollution Prevention Training Program

Train manufacturing and wastewater pretreatment staff in small businesses (primarily metal finishing) on how to properly operate process and treatment equipment and how to conduct a facility P2 audit. Include POTW staff in training to enable them to advise facilities on equipment operation and P2 opportunities. Offer in college course format and feature hands-on training with recycling, manufacturing, and pretreatment equipment.

NH Department of Environmental Services

TITLE: Compliance Through Pollution Prevention: The Next Generation

Assist the city of Somersworth in overcoming its phosphorous discharge problem through source reduction rather than (as currently planned) chemical treatment. Train POTW staff and industries, offer technical assistance to industry, and mount public education campaign to reduce household contribution. With NH municipal associations, develop compliance and P2 tools for municipal officials: training, self-assessment, written guidance. Integrate compliance assistance and regulatory reform for P2 into NH DES regulatory programs. Contribute the NH P2 Program's expertise (on-site assistance, library, etc) to UNH's new Environmental Compliance and Pollution Prevention Center (see below).

University of New Hampshire

TITLE: Environmental Compliance and Pollution Prevention Center

Collaborate with NH DES, Public Service of NH, trade associations and Hadco to provide holistic on-site compliance/P2/energy/finance technical assistance to four typical small electronics and metal finishing facilities. Develop two model facilities to demonstrate compliance and technology for other small manufacturers. Produce a videotape for hard-to-reach businesses,

covering: innovative technologies, how to conduct an environment/energy audit, case study plant tour.

VT Department of Environmental Conservation

TITLE: VT DEC Pollution Prevention Program

Integrate printing and metal finishing focus into assistance given under VT's toxics use reduction planning program. Provide on-site P2 assistance to small businesses through the Retired Engineers and Professional (REAP) program. Conduct workshops on P2 and compliance for small businesses in partnership with state's Solid Waste Districts. Publish industry-specific P2 bulletins and quarterly newsletter. Audit state government facilities and operations under VT's Clean State Initiative, and produce a state materials management plan. Develop plan for P2 initiative with hotels, motels, resorts and conference centers, to include a model facility.

Maine Department of Environmental Protection

TITLE: Maine DEP Pollution Prevention Program

Deliver very local half-day workshops on compliance and P2 to small- to medium-sized print shops. Provide on-site compliance and P2 assistance to printers. Develop written compliance/P2 guidance for lithographers. Establish a "green" print shop in Maine, similar to Vermont's; set up other technology demonstration sites. For outreach to metal finishing industry, in coordination with NEEAT: workshops, self-audit package, financial assistance (via Coastal Enterprises).

Northeast Waste Management Officials' Organization (NEWMOA)

TITLE: Northeast States P2 Roundtable

Operate the Northeast States P2 Roundtable, and association of all state-based P2 programs in New England, New York and New Jersey. The Roundtable helps participating programs share technical information; draft state legislation and address agency barriers to P2; develop training for regulatory staff, businesses and others; and perform research on problem chemicals, processes and other issues. This grant will also enable NEWMOA to develop P2 training for agency permit writers; produce a report measuring the success of P2 programs in the

Northeast; hold a summit of all federal- and state-funded P2 and compliance assistance programs in the region, to promote collaboration; hold roundtables for printed wire board manufacturers to investigate regulatory issues; and develop a case study on how a Tier 3 metal plater can go out of business in an environmentally responsible manner.

Mohegan Tribe (Uncasville, CT)

TITLE: Implementation of the Mohegan P2 Plan

Tribe will use these funds to explore P2 options for its planned resort complex and to train contractors involved in designing and building the resort on P2 practices.

Houlton Band of Maliseet Indians (Houlton, ME)

Train tribal administrative staff and road crew in methods to prevent erosion and polluted stormwater runoff from road maintenance projects. Allow all interested municipalities in watershed to attend. Investigate possibility of using organic soil amendments on tribal agricultural land to reduce erosion and reduce nutrient leaching and runoff to ground and surface water. Train tribal housing improvement director with training on indoor air quality monitoring and P2 strategies for improving it.

CT DEP and ConnTAP will receive a 2-year, \$150,000 EPA SBAP Leadership Grant to jointly conduct P2 and compliance audits of metal finishers, making use of EPA's small business amnesty policy. The project will develop and test model assessment protocols and compliance agreements.

For more information contact: Abby Swaine, EPA-New England, (617) 565-4523.

EPA REGION II

Waste Minimization Audits

Region II has developed a special initiative to determine whether generators are operating in compliance with the requirements of the Resource Conservation and Recovery Act (RCRA) hazardous waste manifest certification requirements for reducing or preventing the generation of waste. This initiative seeks to identify regulated hazardous waste generators, not conducting waste minimization as certified by

them on their manifests, by performing field audits at 40 of the largest generators of ozone depleting chemicals or hazardous waste sent to incinerators.

In accordance with the contract agreement, AT Kearney will complete the Waste Minimization Audits before the end of FY95. As of September 18, 1995 AT Kearney completed all 40 audits, and will have submitted all 40 reports by September 29, 1995. During FY96 EPA will review the Waste Minimization information collected during the audits, assess facility needs and establish a vehicle for technology assistance and exchange.

In addition, EPA will review and analyze the reports to determine the hazardous waste reduction levels that each of the 40 facilities were able to accomplish. EPA will follow-up with each facility to review the implementation process of their Pollution Prevention plans and explore reduction levels, future implementation goals, and technologies exchanges.

Camden County Multi-Media Aquifer Protection Workgroup

On February 16, 1995 Region II made a commitment to establish a compliance assistance initiative for the regulated community focusing on environmental justice, pollution prevention, and small quantity generators. As part of the MMAPP workgroup Region II is committed to focus on facilities that could affect groundwater protection within the southern portion of Camden, New Jersey.

Initially the Region planned to work with New Jersey officials and possibly assist with the follow-up of inspections completed by the New Jersey Department of Environmental Protection (NJDEP) in June 1995. After conversations with NJDEP it was determined that our efforts would not be needed and another targeting strategy was developed.

In July 1995 the Region targeted Small Quantity Generators (SQGs), sending out seventy (70) "Outreach Surveys" to various SQGs in Camden, NJ. The survey requested owners/operators to respond to a series of questions that address each facility's generation and handling practices, RCRA SQG requirements, and waste minimization

management methods. As of September 1, 1995 15 facilities have responded, noting the level of assistance they would need to completely understand the regulations. All of the responses expressed a need for assistance with pollution prevention and waste minimization requirements, and only three expressed the need for additional information on regulatory items such as manifests, waste identification, or accumulation of hazardous waste.

During FY96 the Region will follow-up with all 70 SQGs by preparing a mailer and planning workshops to address survey responses. The main focus will be on Pollution Prevention/Waste Minimization options for small quantity generators. Contact: Kelly Ann Few (212) 637-3155

EPA Region II & NYS DEC- NY State Federal Facilities Environmental Workshop

The New York State Federal Facilities Environmental Workshop was held September 19 and 20, 1995, at the Niagara Falls Air Reserve Station, in Niagara Falls, New York, in response to federal facilities requests for more information about state environmental regulations. This workshop was a cooperative effort by EPA Region II, the New York State Department of Environmental Conservation's (NYSDEC) Pollution Prevention Unit, and the Niagara Falls Air Reserve Station.

The workshop speakers, primarily from the NYSDEC, covered such topics as Clean Air Act Title V permitting, pollution prevention success stories, storm-water permitting under the State Pollutant Discharge Elimination System, federal developments in storm-water permitting, NYS regulations for underground and above ground storage tanks, and remedial clean-up technologies.

The workshop attracted approximately 55 Federal facility representatives from various federal agencies including the Postal Service, Army, Navy, Air Force, Coast Guard, General Services Administration, Veterans Administration, Army Corp of Engineers, Department of Agriculture, and Department of Energy. Based on the participants enthusiastic responses, Region II plans to repeat this event in concert with the New Jersey Department of

Environmental Protection, and to make such workshops annual occurrences. Contact: Jeanette Dadusc, (212) 637-3492.

FY95 P2 Grants

Six Pollution Prevention Incentives for States grants were awarded in Region II. One went to the New York State Department of Environmental Conservation (NYSDEC) to work with the Erie County Department of Environment and Planning; the Buffalo Sewer Authority (BSA); Buffalo State College (BSC); and SUNY/Buffalo to demonstrate a model approach to reducing and/or eliminating toxic loadings to a combined sewer overflow (CSO). Another went to NYSDEC to work with the Suffolk County Water Authority and several local universities to create the Long Island Pollution Prevention Partnership. Two grants went to Rutgers University to implement projects in the transportation sector. The first, in partnership with the Tri-State Transportation Campaign; New Jersey Departments of Transit (NJDOT) and Environmental Protection (NJDEP); North Jersey Transportation Planning Authority; and the Townships of Woodbridge and Edison, will develop a pilot project to test various measures for reducing mobile source pollution on Route 1 between New Brunswick and Woodbridge. The second project, in partnership with NJDEP and NJDOT, seeks to strengthen testing of diesel emissions from trucks and buses, and convert NJDOT's bus fleet to alternative fuels. The fifth grant is to the New York State Energy and Research Authority, which in partnership with the New York City Department of Sanitation and INFORM, Inc., will assist up to 25 businesses in nine industrial sectors to develop, implement and evaluate comprehensive source reduction programs. The last grant is to the New Jersey Institute of Technology which will partner with the Clean Water Fund (CWF) to reduce synthetic inputs to turf and seeded lawns by educating consumers and, in turn, create a demand for low maintenance sod.

Six grants are in the process of being awarded in Region II under the Environmental Justice through Pollution Prevention program. Announcements will be forthcoming shortly, as will announcements on the expenditure of pollution prevention support fund.

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Environmentally Beneficial Expenditures:

1. American Computer Assembly - Accelerated Compliance - the company eliminated the use of Freon 113 vapor degreaser with a water-based cleaning system.
2. Bennet Heat Treating Co. - Installed two surface combustion power washers. Eliminates the use of EPCRA Section 313 materials that were used for degreasing metals.
3. Caschem - elimination of water discharge into Newark Bay by eliminating their contact cooling water using a vacuum pump and condenser system that does not utilize contact cooling water
4. Dower Finishing - material substitution of solvent based paints and lacquers with high-solid and water-reducible products.
5. E. Dupont - Modification of Dinitrobenzene manufacturing process by installing automatic water flow controls resulting in reduction of DNB in waste by 25,000 to 50,000 pounds per year.
6. Gibson Tube - changes in annealing and drawing process eliminates one solvent cleaning step and reduces solvent use.
7. Monsanto - Installation of thermal oxidizer removes ethyl chloride, which is an unwanted byproduct.
8. NJ Galvanizing - installation of sulfuric acid recycling and zinc recovery system.
9. Crown Cork & Seal - installation of UV Rimcoat equipment that will eliminate use of glycol ethers in a portion of their beverage can manufacturing.

Note of Interest:

During one of our settlement negotiations a facility proposed a Pollution Reduction SEP, to recycle solvent. After evaluation with the Project Program under the new SEP policy the proposal was deemed unacceptable as it was profitable within the first year. This undermines the concept of Pollution Prevention. Contact: Nora Lopez (908) 906-6890.

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

NEW P2 PUBLICATIONS

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

Directory of Pollution Prevention in Higher Education: Faculty and Programs, National Pollution Prevention Center for Higher Education, 1994, (313) 764-1412, e-mail address: nppc@umich.edu or <http://www.shre.umich.edu/npppc/>

Pollution Prevention Educational Resource Compendia in business (accounting, finance, business law), engineering, environmental studies, industrial ecology, and operations management; 1994-95; National Pollution Prevention Center for Higher Education (313) 764-1412, e-mail address: nppc@umich.edu or <http://www.shre.umich.edu/npppc/> (313) 764-1412.

"Addressing Industry Issues Related to Chemical Reporting for Pollutant Release and Transfer Registers," Tufts University, August 1995. Call NEWMOA (617) 367-8558.

Power Boosters: Ohio's Energy Efficiency Success Stories, July 1995, Available from Safe Energy Communication Council, Washington, DC (202) 483-8491.

Auto Repair Fact Sheets (individual fact sheets on Antifreeze, CFCs, Hazardous Waste Determination, Lead-Acid Batteries, Paint Solvents, Recycling, Used Engine Oil, Vehicle Fluids, Vehicle Painting, and Wastewater), available from the CT Office of Pollution Prevention, contact David Westcott (860) 424-3666.

"Clean Air Act Compliance for Solvent Degreasers," University of Tennessee Center for Industrial Services, May 1995. Available from EPA-New England, contact Linda Darveau at (617) 565-4993.

A Pollution Prevention Resource Manual for Metal Finishers: A Competitive Advantage Manual. Available from The Inst. for Advanced Manufacturing Sciences (513) 948-2000.

Pollution Prevention and Waste Minimization for Metal Finishing, Allied Signal Aerospace, December 1994. Available from NTIS document # DE95-004396 (703) 487-4639.

"VOC Compliant Wash Primer," Army Research Laboratory, September 1994. Available from NTIS document # PB94-117019 (703) 487-4639.

"Alternative Solvent Technologies for Paint Stripping: Phase I," U.S. Department of Energy, March 1994. Available from NTIS document # PB94-15948, (703) 487-4639.

"Innovative Clean Technologies Case Studies: Second Year Project Report", Center for Hazardous Materials Research, Pittsburgh, PA, April 1994. Available from NTIS document PB95-100079, (703) 487-4639.

"A Quantitative Method for Screening Pollution Prevention Program Options at United States Air Force Installations," United States Air Forces Institute of Technology, September 1994. Available from NTIS document # PB94-923031, (703) 487-4639.

Available from EPA Office of Research and Development at (513) 569-7562:

Pollution Prevention Possibilities from Small and Medium-Sized Industries: Results of the WRITE Project, US EPA, May 1995, document # EPA/600/R-95/070.

Project Summary: Evaluation of Super-critical Carbon Dioxide Technology to Reduce Solvent in Spray Coating Applications, May 1994 document # EPA/600/SR-94/043

Project Summary: Pollution Prevention Research Within the Federal Community, April 1995, document # EPA/600/SR-95/061

Project Summary: Alternative Technologies for Refrigeration and Air Conditioning Applications, May 1995, document # EPA 600/SR-95/066

Project Summary: Evaluation of Barriers to the Use of Radiation-Cured Coatings in Screen Printing, June 1995, document # EPA/600/SR-95/060

Pollution Prevention Opportunity Assessment: General Main and Vehicle Maintenance Facility, United States Postal Service, Buffalo, NY. March 1995, document # EPA/600/S-95/001.

Available from EPA's Pollution Prevention Clearinghouse (PPIC) (202) 260-7751:

Encouraging the Use of Pollution Prevention in Enforcement Settlements: A Handbook for EPA

Regions, US EPA, Office of Enforcement and Compliance Assurance, May 1995, document # EPA 300-R-95-005.

Recent Experience in Encouraging the Use of Pollution Prevention in Enforcement Settlements: Final Report, US EPA, Office of Enforcement and Compliance Assurance, May 1995, document # EPA 300-R-95-006.

CALENDAR

Title	Sponsor	Date/Location	Contact
Training Course on Planning & Developing Programs to Manage Household Hazardous Waste	Waste Watch Center	October 11-13, 1995 -- Holiday Inn, Tewksbury, MA	(508) 470-3044
Green Business Trade Show & Conference	co Expo	October 13-15, 1995 -- World Trade Center, Boston, MA	(800) 471-4711
Creating Environmentally Responsible Packaging	Institute for Int. Research	October 16-18, 1995 -- The Madison Hotel, Washington, DC	(212) 661-8740
1995 International CFC & Halon Alternatives Conference & Exhibition	Alliance for Responsible Atmospheric Policy	October 23-25, 1995 -- Washington Hilton & Towers, Washington, DC	(301) 695-3762
P2 In Miami Beach!	NPPR, FL & Dade County P2 Program	December 6-8, 1995 -- Miami Beach, Florida	(202) 466-P2P2
25th Annual Solid/Hazardous Waste Conference & Exhibition	TN DEC Div. of Solid Waste Management & The Univ. of TN	April 10-12, 1996 -- Gatlinburg Convention Center, Gatlinburg, TN	(615) 327-2656
Elementary Teachers Workshop	National Microscale Chemistry Center, Merrimack College	October 14-15, 1995 & October 24-24, 1996 -- Merrimack College, MA	(508) 837-5017
High School Teachers Workshops	National Microscale Chemistry Center, Merrimack College	Nov. 3-5, 1995, Nov. 17-19, 1995, March 29-31 & April 5-7, 1996 -- Merrimack College, MA	(508) 837-5017
A Conference on Minimizing Industrial Water Use	ConnTAP	November 16, 1995 -- Bristol Radisson Inn, CT	(860) 241-0777
A National Teleconference - Clean Air Quality Compliance for Chromium Electroplaters	UTN Center for Industrial Services	November 15, 1995, 2:00 - 5:00est.	(615) 532-8657
The Eight Annual New England Environmental Expo	New England Environmental Expo	May 7-9, 1996 -- World Trade Center, Boston, MA	(617) 489-2302
1996 RI Pollution Prevention Conference & Expo	RI DEM & the Narragansett Bay Commission	October 23-25, 1996 -- RI Convention Center, Providence, RI	(401) 277-3434 ext.4414
College/University Industry and R&D Lab Workshops	National Microscale Chemistry Center, Merrimack College	Organic - June 24-28, 1996 General - July 8-12, 1996 Inorganic & General - July 22-26, 1996 -- Merrimack College	(508) 837-5017



NORTHEAST STATES POLLUTION PREVENTION NEWS

NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION
(NEWMOA)

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Summer - Fall 1995

NORTHEAST STATES P2 ROUNDTABLE

As you can see, we combined the summer and fall 1995 issues of this newsletter into one. We did not publish a separate summer issue because we did not hold a meeting of the Northeast States P2 Roundtable in the summer at the request of the states.

P2 Evaluation Study

During the last meeting of the NE Roundtable in May, the group decided to participate in a national pilot study evaluating the effectiveness of various P2 programs in the region. The study, which is funded and managed by EPA Headquarters, will involve interviews with company representatives, discussions with state and local P2 program staff, analysis of available data, and review of existing literature and studies. It is designed to provide insights into efforts that have motivated companies to reduce their generation of wastes and pollutants at the source. A version of the study is scheduled to be released by the end of the year.

The NE Roundtable members are providing assistance, advice, data and case studies for use in the study. Since the NE Roundtable meeting in May, the group has held several conference calls to scope out the study and provide EPA with an overview of the data and information that each state has available. In addition, staff from two Northeast state P2 programs are working on the study full time for EPA.

Publications

For those of you interested in the Toxics Release Inventory (TRI), EPA has published the proceedings from the 1994 TRI Data Use

Conference that NEWMOA organized in Boston last December. NEWMOA compiled and edited the Proceedings as part of the grant from EPA to conduct the conference. The theme of the conference was, "Building TRI and Pollution Prevention Partnerships." Copies of the Proceedings can be obtained by contacting the EPA EPCRA Hotline at (800) 5350-0202.

Meetings

The NE Roundtable is sponsoring several training workshops and conferences this Fall and Winter. In October, the group is planning a three-day session, called "Skillful Change Agents" to be held in Sturbridge, MA. This session is designed for state and local P2 program staff only.

In November, the group is tentatively planning two workshops a two-day session on P2 in Paper and Soft Plastic Coatings Operations to be held in Wakefield, MA early in the month; and a one-day session on P2 in Permitting later in the month. The Surface Coatings Workshop is designed for federal, state and local P2 program and regulatory compliance staff involved in providing assistance, inspections or permits

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