



# NORTHEAST STATES POLLUTION PREVENTION NEWS

THE NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION  
(NEWMOA)

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## INTRODUCTION

At the last meeting of NEWMOA's Northeast Multi-Media Pollution Prevention (NEMPP) Workgroup in June, we decided to change our name to the Northeast States Pollution Prevention Roundtable (NE Roundtable). The group felt that this would enable us to be consistent with the Roundtables in other regions of the country and would be more descriptive of the workgroup's activities. We will no longer use the NEMPP title for the workgroup. For the foreseeable future, the NE Roundtable will continue to meet on a quarterly basis.

We send *Northeast States Pollution Prevention News* to state and EPA officials and others for free. We provide this as a service to EPA and the states to keep everyone informed of each other's activities in pollution prevention. We update our mailing list every four months and would like to keep it as current as possible so that we do not print more copies than we need. Please call the NEWMOA office or use the form at the back of this newsletter to change your address, to remove your name from the mailing list, or to suggest others who might be interested in receiving the newsletter.

## NE ROUNDTABLE UPDATE

NEWMOA is planning its annual joint meeting with EPA for November 17-18 in Waterville Valley, New Hampshire. This year we are planning six pollution prevention sessions, including sessions on PP Technical Assistance and Regulatory Programs: Sorting Out Their

Roles; Integrating PP Into Compliance, Permitting and Enforcement, Goals and Strategies of Multi-Media PP Initiatives in the Northeast; Pollution Prevention for Regulatory Program Managers: A Training Workshop; Waste Paint Reduction, Recycling and Management; and Pollution Prevention Planning Requirements: An Update. Please call the NEWMOA office for more information on the conference.

### Report Available

NEWMOA has published a report, "Lead, Cadmium and Mercury in Hospital Solid Waste: A Scoping Study". The report describes potential sources of heavy metals in hospital wastes and a case study of a Boston-area

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hospital. The report is available for \$15 for public agencies and non-profit groups and \$30 for profit firms. Call the NEWMOA office for more information on the report.

#### **PP Information Available Electronically**

EPA headquarters operates an electronic database of information on PP, called the Pollution Prevention Information Exchange System (PIES). PIES is managed by the Agency's Pollution Prevention Information Clearinghouse (PPIC). PIES contains a database of abstracts of PP articles and PP case studies as well as an electronic bulletin board.

NEWMOA and EPA Region I have been collaborating with PPIC to develop an electronic board devoted to the northeast region. This board, called the Northeast Interstates Association Region 1 Mini-Exchange, contains several databases, including a database of individuals with PP expertise in the northeast and a list of publications available at NEWMOA's pollution prevention clearinghouse. These databases can be searched using a series of simple menus. The Mini-Exchange also contains a list of publications that can be ordered from the clearinghouse and an electronic version of this newsletter. Please contact NEWMOA for information on the Mini-Exchange or PPIC Technical Support at (703) 821-4800 for information on accessing PIES.

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

## **CONNECTICUT**

### **CONNECTICUT DEP**

#### **Pollution Prevention Training**

Pollution prevention training is being offered for Department staff this month. The half-day program includes a discussion on what we mean by pollution prevention, an overview of various Department pollution prevention initiatives, a description of the technical

assistance programs available through the Connecticut Hazardous Waste Management Service, and a discussion on how technical staff can incorporate pollution prevention in inspection, permit writing, and enforcement activities. The focus of the training is to encourage technical staff to use a multimedia thought process in their daily duties.

#### **Pollution Prevention Overview for Managers**

A half-day senior staff seminar for Department managers scheduled for later this month will focus on pollution prevention. This seminar is being held for managers to have the opportunity to learn about the various on-going and emerging pollution prevention initiatives. The newly established pollution prevention policy statement will be discussed and released by the Commissioner for distribution to Department staff.

#### **Targets for Outreach Effort**

After much discussion and analysis of thirty potential target areas for small business pollution prevention outreach effort, we are working with pesticide applicators, auto repair businesses, and furniture strippers. Any technical assistance materials developed by other state programs and organizations for these types of businesses would be of interest to us in developing our program.

#### **CFC Guidance/PCB Video**

The Department has developed a video tape on PCBs and a fact sheet on CFC's. These educational materials will be available from Carey Hurlburt at (203) 393-2449.

#### **Compilation of DEP and Other Pollution Prevention Initiatives**

A document describing the various existing Department pollution prevention initiatives has been compiled. The summary was prepared because pollution prevention is not new to the Department, and many of the existing programs in the Department and elsewhere in Connecticut have incorporated pollution

prevention. Before any new initiatives are recommended, a thorough analysis of what exists is necessary.

**For more information contact:** Anne Gobin, CT DEP, (203) 566-5217.

## CONN TAP

### **Matching Challenge Grants**

A total of \$30,000 is available for waste management projects under ConnTAP's Matching Challenge Grant program. Traditionally, grant projects include assessments of waste minimization opportunities (either plant-wide or individual processes) and feasibility studies of waste minimization technologies or source reduction efforts. A maximum of \$7,500 can be awarded per grant and recipients are required to provide a 100 percent match. Any Connecticut company, organization or individual is eligible. Applications are due by November 13, 1992.

### **Training**

On October 28, 1992 ConnTAP will be cosponsoring the 7th Annual Pollution Prevention in the Metal Finishing and Manufacturing Industries conference. The conference will highlight new technologies and management strategies to prevent pollution. The event will include a technical panel, case studies, discussion groups, a facility tour and vendor displays.

ConnTAP attended and displayed at the EPA 33/50 workshop meeting in Framingham, MA on September 14, 1992. A case study of a pollution prevention project funded by a Matching Challenge Grant from ConnTAP was featured at the meeting.

**For more information contact:** ConnTAP staff at (203) 241-0777.

## **MAINE**

### MAINE DEP

#### **TUR Program Guidelines**

The Maine Department of Environmental Protection (DEP), under the auspices of the Office Pollution Prevention, is in the process of developing Guidelines for its Toxics Use and Hazardous Waste Reduction (TUR) Law, 38 M.R.S.A. Sections 2301 et seq. Although DEP anticipated releasing the Guidelines earlier this year, their release has been delayed due to internal resources limitations. The Toxics Reduction Advisory Committee, made up of representatives of the Maine business community, municipal officials, organized labor, a public health organization, an environmental organization, and members of the public, has been working on finalizing the guidelines in conjunction with DEP.

Under the TUR Law, toxics users, toxics releasers, and hazardous waste generators in Maine must develop plans to meet the State's reduction goals. For toxics users, the voluntary reduction goals are a 10 percent reduction in the amount of toxic substance used in the State by January 1, 1994, and 20 percent reduction by January 1 1998. For toxics releasers, the mandated reduction goals are a 20 percent reduction in the aggregate amount of toxics released into the environment by January 1, 1994, a 20 percent reduction by January 1, 1996, and a 30 percent reduction by January 1, 1998. For hazardous waste generated at a facility the mandatory minimization goals are 10 percent reduction by January 1, 1994, a 20 percent reduction by January 1, 1996 and a 30 percent reduction by January 1, 1998. The reduction goals for each category of the regulated community are measured against different baselines.

The Guidelines should be released by December this year. For more information, contact Ann Pistell at (207) 287-2651.

### **The Technical Assistance Program**

The Maine legislature has approved a bill establishing a Technical and Environmental Assistance Program (TEAP) under the direction of the Office of Pollution Prevention. The measure that was passed is codified in 38 M.R.S.A. Section 343-C.

Maine's technical assistance program will be centered in the Office of Pollution Prevention and will provide technical assistance to the Maine regulated community in general. Specifically, the TEAP will combine the Clean Air Act Amendments of 1990's small business technical assistance requirements with the TEAP legislative requirements to form one general technical assistance program. Also incorporated into the program will be a technical assistance grant Maine has received from EPA (see below). Maine's technical assistance program workplan will be reviewed by the Pollution Prevention Advisory Committee, by the Board of Environmental Protection, and by the public in a public hearing before November 15, 1991.

### **The Maine Pollution Prevention (MEPP)**

Maine has received a grant from EPA under EPA's Pollution Prevention to States 1992 Grant Program. The grant will give Maine the ability to add the "Maine Environmental Partnership Program" (MEPP) to its technical assistance program.

The MEPP will provide comprehensive, multi-media pollution prevention technical assistance to the regulated community while increasing cooperative interaction between the Department of Environmental Protection (the Department) and the regulated community. The MEPP asks both the Department and a participating facility to make commitments toward a mutual goal, that of efficient and effective environmental protection emphasizing pollution prevention as a vehicle. The payoffs under the MEPP include improved competitiveness for business, and stronger ties between the public and private sectors as both work together toward common goals. Look for more information on the MEPP arm of Maine's

technical assistance program in upcoming issues.

**For more information contact:** Anette Dearden, ME DEP, (207) 287-2811.

### **UNIVERSITY OF MAINE**

#### **Upcoming Events**

#### **5 November 1992**

One-day conference: Grease to Gold, Pollution Prevention for Automotive Maintenance Organizations  
8:30 - 4:00 The Black Bear Inn, Orono, Maine.

#### **19 November 1992**

One-day conference: Reducing Exposure to Environmental Lead  
8:30 - 4:00 Hauck Auditorium, University of Maine, Orono, Maine.  
Co-sponsored by the Maine Bureau of Health and the Maine Public Health Association. \$20.00

#### **20 November 1992**

Workshop: Reducing Exposure to Hazardous Substances.  
9:30 - 3:00. 222 Jenness Hall, University of Maine, Orono. Presenters are Marquita Hill, Jim Dill, and Lance Gurney.

#### **Fact Sheets and Leaflets**

Concepts sheets on Pollution Prevention in the Classroom:

What is Pollution Prevention?, EPA's Waste Management Hierarchy, Green Lights, Adopt a Lake, and Make your Voice Heard.

#### **Leaflet series**

Reducing Exposure to Hazardous Substances: Hazardous Products, Detecting and Reducing the Use of Hazardous Substances, and Indoor Air Quality.

Brochures:

Municipal Solid Waste Incinerator Ash  
Some Basic Concepts in Toxicology

For more information contact: Nick Houtman,  
University of Maine, (207) 581-1490.

## MASSACHUSETTS

### MASSACHUSETTS DEP

#### Toxics Use Reduction Reporting

DEP received approximately 600 Toxics Use Reduction Forms for 1991. We have begun reviewing them and are finding that while firms are doing a better job than they did last year, there is still some confusion about what is "byproduct" ("waste prior to treatment" or non product output). We have found a significant number of instances in which the amounts listed in Section 8 of EPA's Form R differ substantially than the amount listed as byproduct on DEP's Form S. Unfortunately these numbers should be equal. In addition firms are still having difficulty calculating the "Byproduct Reduction Index", which measures the net change in the amount of chemicals wasted per unit of product produced between the reporting year and the "base year". Many firms are having trouble selecting a good unit of product.

The 1990 reports have been entered into our data system, and DEP is expecting to start generating reports from the system within the next few months. DEP will be entering the 1991 data later this year, after filers submit the necessary corrections to the forms.

The Massachusetts system includes additional SIC codes (including service industries such as laundries, transportation industries such as airlines, and waste treatment facilities such as TSDf's and recyclers and resource recovery facilities). DEP also included CERCLA chemicals as well as the TRI chemicals. Numerous policy questions arise as a result of this. For example, how do you handle substances in incoming wastes, does the exemptions for motor vehicle maintenance or fuel oil still hold

when motor vehicle maintenance or transportation is the main function of the facility, and what is reported if a chemical is a category on the CERCLA or an individual substance on the TRI list? DEP will be resolving these issues over the next few months.

#### Toxics Use Reduction (TUR) Planning

DEP promulgated the TUR planning regulations this spring. The plans are kept on-site and are approved by Toxics Use Reduction Planners (TURPs), who are themselves certified by DEP. TURPs can be certified to approve plans for their own facilities if they can demonstrate two years experience in TUR. They can be certified to approve any facilities plans if they attend training developed by the Toxics Use Reduction Institute (TURI) and pass an exam offered by DEP. DEP expects to promulgate the certification regulations and offer the exam in January and begin certifying TURPs thereafter.

DEP will also work with volunteer facilities to develop model TUR plans. Because our regulations do not establish a planning "cookbook", firms can take any of a number of different approaches to the planning process and still have an approvable plan. However, this lack of structure concerns potential TURPs because there are no precise rules about what is and is not an acceptable plan. We hope that the plans will reveal the range of what is and is not acceptable.

#### Multi-Media/Pollution Prevention Biased Permitting, Compliance, and Enforcement

Compliance DEP is moving toward full implementation of the Waste Prevention F.I.R.S.T. (facility-wide inspections to reduce sources of toxics) approach to all compliance inspections. This has involved categorizing all facilities according to their status in all of our regulatory programs (e.g., the XYZ company is a major air source, a small quantity hazardous waste generator, has a sewer connection and is not a TURA filer). Inspection priorities are set according to the facility's multi-media status. Depending on its complexity, a facility will be

inspected by one, (if it is a minor in two programs for example) two, or perhaps even three inspectors (if it is a major and complicated source in all three media). DEP is working with EPA so that grant agreements reflect this approach. DEP expects to have its inspectors trained in this approach by the end of the year. DEP is examining its organizational structure to determine whether or not reorganization would facilitate this approach.

**Enforcement** DEP has recently received the first toxics use reduction compliance analysis completed by a company as a part of a consent decree. In this case the company was issued a civil penalty for violations of DEP hazardous waste and water pollution control regulations. Because it appeared that pollution prevention techniques could eliminate the need for treatment, DEP offered to mitigate the company's penalty for the cost of completing a toxics use reduction analysis, and in order to encourage the implementation of TUR, the cost of implementing toxics use reduction strategies that, absent penalty mitigation, would not have been economically feasible. It looks as though the enforcement strategy will be successful, and the company will be able to meet water pollution control standards without installing treatment. We plan to develop an agency-wide policy on using toxic use and source reduction analyses in our enforcement actions based upon our experience in this case.

**Permitting** DEP has hired the staff to begin a pilot project in our NE regional office. The intent of the project will be to identify and evaluate changes to our permitting procedures that will lead firms to think "prevention rather than treatment" when they are seeking to comply with our environmental standards. DEP also will be evaluating ways to coordinate permitting across media. (DEP is not at this time seeking to issue a joint multi-media permit however).

**For more information contact:** Suzi Peck, MA  
DEP (617) 292-5870.

## MASSACHUSETTS OTA

OTA continues to implement the Merrimack River Pollution Prevention Project, which supports special pollution prevention projects in the Merrimack Valley through coordination with the area's POTWs. During the summer of 1992, OTA's Merrimack Project Coordinator has focused efforts on the formation of a business network that will link up area companies to address pollution prevention issues regarding technical, management, and regulatory concerns. OTA is also planning a Spring '93 fair as a public outreach activity. Workshops are being planned for this fall on: water conservation and source reduction, filtration technology options, and other topics.

Another grant OTA is working on is EPA's Pollution Prevention in Publicly Owned Treatment Works (POTWs) or "Critical Parameters" project. Three towns are served under this grant; Worcester, Warren and Springfield. Various activities for the fall are being planned under this grant, including the opening of the Worcester Recycling Center in September (to accept antifreeze, spent photographic chemicals, and used oil), and the development of workshops to target residents and school children and educate them about how treatment plants operate and how household chemicals can interfere with plant operation.

OTA's toxics use reduction manual, "A Practical Guide to Pollution Prevention", is now available and has been mailed to each NEWMOA state. The guide is designed for Massachusetts businesses and institutions that use toxics, both those required to do TUR planning under the Toxics Use Reduction Act, and small quantity toxics users not covered by the law. The manual is designed to serve those with different needs as well as different levels of experience and includes a number of appendices on related pollution prevention topics.

OTA, in conjunction with the Massachusetts Water Resources Authority, hosted a workshop on silver recovery in the photoprocessing industry. Nearly 200 attendees received information on regulatory updates from

MWRA and DEP, and pollution prevention information from OTA. Future workshops include Pollution Prevention in the Coatings Industry (October 1 in Worcester) and Pollution Prevention in the Dry Cleaning Industry (September 17), both in conjunction with EPA Region I. OTA is planning to work with American Chemical Society's Chemistry Week (October 29 - November 6) by hosting a workshop for high school science teachers to teach them about lab safety, toxics use reduction in the lab, and hazardous waste regulations. In addition, OTA has been working with TURI to organize the National Pollution Prevention Roundtable scheduled for October 21 - 23, 1992 in Lowell, MA.

OTA now tapes its workshops in order to provide copies to interested parties. Currently, copies of the following workshops are available: Total Quality Environmental Management, Pollution Prevention in the Printed Circuit Board Industry, Focus on Silver: Pollution Prevention in Photoprocessing, and Technical Strategies for Waste Reduction in the Metal Working Industry and Machine Shops. Please send us a blank tape and let us know which workshop you would like copied, c/o EOE/OTA, 100 Cambridge Street, Room 1904, Boston, MA 02202.

**For more information contact:** Lisa Dufresne, MA OTA, (617) 727-3260.

### MASSACHUSETTS TURI

Over the past six months the Toxics Use Reduction Institute (TURI) has been actively engaged in a number of research, education, and technical support projects.

In the research program, the Institute established an "Industry Matching Grants Program". In this program, grants ranging from \$5,000 to \$25,000 are awarded to Massachusetts companies to conduct short-term research in toxic use reduction technologies. In fiscal year 1993, which began in July, the Institute awarded six grants totaling \$90,000 to companies who met the Program's criteria. In total, the Institute

received nine proposals in response to an RFP, which was sent to industries in June of this year. Projects funded include, replacing lubricants for metal forming with environmentally-safe alternatives; developing alternatives to arsine in gallium arsenide; and developing super-critical fluids as a replacement for ozone depleting chemicals.

Also in the research program, the Institute awarded research dollars to seven University-based projects through its "Research Fellows Program". These projects, which are more experimental than application-based, aim to incorporate TUR into the design phase of new material or product development. Projects include, developing a biological process to make environmentally-friendly water soluble ionic polymers; developing non-volatile precursors to ozone depleting chemicals in fire extinguishers; and evaluating the use of super-critical fluids as substitutes for cleaning solvents. This is the second year that the Institute has sponsored the "Research Fellows Program".

Education and training activities have focused on a number of varied projects. In June, the Institute and the Associated Industries of Massachusetts sponsored a one-day conference on "Design for the Environment" (DfE). Over one hundred and fifty individuals, primarily from Massachusetts business and industry, attended the conference. Featured speakers included Walter R. Statal, Director of the Product-Life Institute in Geneva, Switzerland, and Brazen R. Allenby, who is currently on fellowship at the National Academy of Engineering. The agenda also included a panel discussion with Massachusetts industry representatives from Texas Instruments and Polaroid Corporation along with consultants from Arthur D. Little and INQC consulting. Small group discussions and activities were designed by the Institute's Education and Training staff to allow conference participants to explore the DfE approach, to examine problems and solutions in implementing DfE in their organizations, and to suggest what is needed in order to apply DfE concepts in Massachusetts businesses.

In the fall, the Institute will offer the

Toxic Use Reduction Planner Course at three locations. In addition to Worcester Polytechnic Institute and the University of Massachusetts Lowell, the course will be offered at Bridgewater State College. Approximately eighty-five individuals have enrolled in the fall course, which brings the total number of attendees since the March 1991 inception of the course, to well over two hundred.

The Education and Training staff is also working with the Massachusetts Department of Environmental Protection (DEP) on the design and development of "Waste Prevention FIRST" training for all inspectors in the Department's Bureau of Waste Prevention. (FIRST is an acronym for Facility-Wide Inspection to Reduce Sources of Toxics). The outcome of the project will be a comprehensive DEP Inspector's Reference Manual and training course for Level I and Level II inspectors. The Education and Training staff has also participated in the development of a training seminar for DEP middle managers entitled, "Environmental Management Strategies for the 90's". Many of the key personnel are supervision agency staff, who are implementing TURA requirements through their inspection activity.

The fall 1992 meeting of the National Roundtable for State Pollution Prevention Programs is being hosted by the Massachusetts Toxics Use Reduction agencies - Office of Technical Assistance of the Executive Office of Environmental Affairs; the Bureau of Waste Prevention of the Department of Environmental Protection and the Institute. Attendees at the Roundtable represent state program offices, universities, industries, and consultants. The Institute is the lead agency in planning the conference, which will be held in Lowell from October 21 - 23.

The Technical Support staff has been working on the creation of a new Technology Transfer Center to provide technical information on TUR and pollution prevention to the Institute's various audiences. Among the services that the Center will provide is an industry specific subscription service, which will provide current information directly to the individual in a firm

who will be responsible for implementing TUR projects. One of the first projects that the Center has implemented is a pilot program for the subscription service in conjunction with some local chapters of the AESF. Those interested in obtaining more information on the Technical Transfer Center are encouraged to contact the Institute at (508) 934-3275. The Technical Support staff has also been working on a project with the US EPA to facilitate pollution prevention in the printing industry and another in the dry cleaning industry.

The Institute has compiled a Toxics Use Reduction Research Directory. The directory provides a listing of organizations identified as sponsoring or performing research on TUR, lists the organization's name, address, telephone number and a description of the organization and its research activities. The directory is free of charge and can be obtained by calling the Institute.

**For more information:** TURI, (508) 934-3275.

## **NEW HAMPSHIRE**

### **NEW HAMPSHIRE DES**

Tabatha Pellerin, DES' second pollution prevention intern and recent graduate from the University of New Hampshire, has been very helpful in cataloging NH's pollution prevention reference and vendor information. She is currently the main contact for the InMagic library program that will coordinate with other P2 Programs in the Northeast.

The NH DES held its first Multi-Media Pollution Prevention Task Force Meeting on June 9, 1992. This introductory meeting was attended by representatives from each of the media programs. This group will serve as the main vehicle to facilitate improved dialogue and communication among the various programs, with the end result being the institutionalization of pollution prevention within the Department.

Vince Perelli helped provide a speaker



for the MASS OTA and TURI, "Pollution Prevention in Printed Circuit Board Manufacturing and Assembly" Workshop. New Hampshire Pollution Prevention Program (NHPPP) staff, as well as the NH Pre-Treatment Coordinator, attended this well received workshop on June 10, 1992.

During this three-month period, NHPPP staff and volunteer professionals conducted three on-site assessments and one pre-assessment meeting. Companies visited include a printed circuit board fabricator, a manufacturer of PVC and coated fiber tubing, a federal aircraft maintenance facility, and a manufacturer of specialty sapphire items.

NHPPP staff held a number of meetings with the NH WasteCap coordinator regarding the development of a brainstorming/creative problem solving workshop for both sets of volunteers. The training, to be held in November, will provide a number of techniques to assist the WasteCAP and NHPPP volunteers in the formulation of viable waste reduction/pollution prevention opportunities during the "post-assessment report writing" phase.

NHPPP staff attended three meetings with representatives of the University of NH, the NH Industrial Research Center, and the NH BIA's WasteCAP Program to discuss the development of a Spring '93 pollution prevention conference for small to medium sized NH companies. The conference will be process-oriented so that a wide cross-section of companies can be served. The conference will emphasize that pollution prevention is an important tool that can help companies become economically competitive.

Paul Lockwood has been involved with a number of New England Recycling Council (NERC) teleconferences pertaining to the various recycling logo and labeling initiatives being proposed or already in place in the Northeast. The conferences ended this past August, and each state will now create/revise individual state laws that are consistent throughout the region.

NHPPP staff assisted and participated in

the Retired Engineers Training Program which was sponsored by the Vermont Agency of Natural Resources, Pollution Prevention Division, and the Associated Industries of Vermont, WasteCap program. Included in the training were four on-site assessments, two of which were led by Vince Perelli and Paul Lockwood.

Vince Perelli attended a two-day Hazardous Waste Capacity Assurance Meeting in Newport, RI. The group continued discussions on cooperative regional waste reduction initiatives. Questions remain as to the most effective way to link Hazardous Waste Capacity Assurance-specific waste reduction concerns with the diverse array of waste reduction technical assistance programs.

NHPPP staff have been meeting regularly with three of the volunteer retired professionals in order to improve the progress of the program. Volunteers have been actively contacting companies by phone in order to further "advertise" and promote the services of the NHPPP, provide specific information, and performed limited waste stream assessments.

NHPPP staff have continued to supply a steady stream of information to requesting companies. A number of companies have requested regulatory information, recognizing the NHPPP as a "safe" place to ask questions.

NHPPP staff recently sent out a mass mailing to chambers of commerce, trade associations, and Kiwanis and Rotary Clubs to make them aware of the existence of the NHPPP.

**For more information contact:** Vince Perelli, NH DES, (603) 271-3503.

## **NEW JERSEY**

### NJTAP

A collaborative effort was completed between NJTAP, HSRC analytical staff and a small pigment production plant in Union County. The goal of the project was to determine baseline

levels of contaminants in the aqueous effluents and to develop procedures for production modification leading to better yield and capture and reuse of unreacted chemicals. The company estimates an annual savings of about \$100,000 as a result of this effort. Discussions have been started with the company to do similar assessments with the remaining process streams.

The first "Waste Reduction Training for Managers of Industrial Facilities" was held. The three, half-day session course is designed to aid attendees in developing a pollution prevention program to suite their needs. A unique feature of this course is the assignment of homework, in which the trainee is to apply the classroom theory to their industrial environment. Homework review during the following class provides feedback to both the trainer and the attendees.

NJTAP will host two high school teachers this summer as part of a NJ educational program. Donna Carpinelli from Clifton High School will develop curricula for the printing and auto body industries vo-ed project. This is a collaborative effort with a vo-ed teacher, NJ Department of Education, NJDEPE and industry representatives. Howard Miller from Rancocas High School will produce a feasibility study describing resource needs for a proposed on-site Information Resource Center database.

EPA has awarded \$10,500 from the two percent set-aside program for further development of NJTAP's Vocational Environmental Education Program. Other funding comes from an omnibus EPA Pollution Prevention Grant.

#### **State Funding**

Agreement has been reached on a contract with NJDEPE that will provide \$600,000 to NJTAP over a three-year period. The contract became effective on June 29, 1992.

#### **Honors**

The Burlington County Industrial Technology Transfer Program (administered by NJTAP) has been named a recipient of the 1992

Governor's Award for Excellence in Pollution Prevention, which was presented to a representative of the Burlington County Freeholders at the June 18 ceremony.

**For more information contact:** Kevin Gashlin, NJTAP (201) 596-5864.

## **NEW YORK**

### **NEW YORK DEC**

#### **Office of Pollution Prevention**

DEC is about to name the first Director for the newly created "Office of Pollution Prevention". Once named, the Director will work with Division Directors to reassign staff to complete the makeup of the new office. Overall, the new office will be responsible for the coordination of multi-media program efforts, and finalization of the Part 378-Hazardous Waste and Air/Water Toxic Chemical Reduction Plans. Future reports will identify how this new office brings the Department into the age of "Multi-Media".

#### **Hazardous Waste Reduction Plans**

Progress continues on the review of new plans for facilities that generate greater than 500 tons of hazardous waste, and on the review of annual status reports for facilities that submitted plans last year. Overall, good progress is being made by facilities reporting to date. Plans are to computerize the data received to date and track reduction progress.

#### **Pollution Prevention Regulations - Part 378**

The Department is considering alternatives to the latest draft dated June 30, 1992. The alternatives being considered maintain reduction requirements, but would give consideration for confidential processes and may allow reduced reporting requirements for meeting waste reduction goals.

**For more information contact:** Dennis Lucia, NY DEC, (518) 457-6072.

## ERIE COUNTY

Limited funding has been obtained from the US EPA Region II Office to conduct an Agricultural Clean Sweep (Pesticide Disposal) Program and Pollution Prevention Training for POTW inspectors. More details will be available within the next few months.

Over the past few months, ECOPP has been finalizing the work plan for a county-wide oil filter recycling program. ECOPP has been selected as a grant recipient from the New York State Energy Research and development Authority. ECOPP will place different types of oil filter crushers at various vehicle maintenance shops throughout Erie County and evaluate their efficiency. The used filters will then be recycled. Laboratory analysis will also be conducted to determine if the oil or filters will impact air emissions at facilities which burn the used oil or melt the filters as scrap.

The ECOPP policy report, "Creating Pollution Prevention Incentives for Small Quantity Generators", has been completed. This report analyzes the incentives available to implement pollution prevention strategies and the role government can take to promote and integrate these strategies in both an economical and regulatory feasible manner.

ECOPP is currently in the process of soliciting consulting firms to evaluate its program. The evaluation will be developed to serve as a model for other local pollution prevention programs as well as an assessment of the role of environmental regulations on small businesses.

The ECOPP staff continue to make progress on the backlog of facilities requesting on-site pollution prevention reviews. There are currently fifty companies requesting assistance.

On October 16, ECOPP staff will present a pollution prevention workshop/seminar for school administrators and chemistry/science teachers in the area. Speakers will address solid and hazardous waste management, microchemistry, chemical spill management, state and federal regulations, as well as pollution

prevention methodology.

Also in October, ECOPP will participate in a continuing effort to develop and implement strategies for local level pollution prevention programs. This "Bilateral Initiative" involves the federal, state and local levels of government, both in the United States and Canada.

ECOPP staff will present the 1992 Pollution Prevention Conference on November 18 and 19, at the Buffalo Convention Center, in conjunction with the Lower Great Lakes Waste and Recycling Exposition. Speakers from the US EPA, NYS DEC and ECOPP will address pollution prevention, air and water discharges and solid and hazardous waste regulations and requirements. Over 7,000 businesses throughout Western New York and 170 state and national programs will be sent information.

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

## **RHODE ISLAND**

### RHODE ISLAND DEM

#### **Pollution Prevention Conference and Exposition**

The 1992 Pollution Prevention Conference and Exposition will be held on September 30 - October 1, 1992 at the Holiday Inn at the Crossings in Warwick, RI. The Conference and Expo offers a unique opportunity to equipment manufacturers, distributors, chemical suppliers and other trade organizations to present their products to Rhode Island, Connecticut and Massachusetts business and environmental professionals. This unprecedented, two-day technical conference will accommodate participants as well as an unlimited number of business representatives who choose to review vendor exhibits only. The conference has been planned to afford maximum time for attendees to visit vendor exhibits.

This technical conference and vendor show will focus on recent advances in source reduction techniques for the metal finishing,

textile, auto body and solvent user industries. Special sessions will be held on recent Rhode Island Department of Environmental Management/United States Environmental Protection Agency initiatives including EPA's 33/50 Project, the 1990 Clean Air Act Amendments, the new SARA Form R Pollution Prevention Reporting Requirements, the TCLP Test Procedure, Land Ban Certification Documentation, Clean Water Act Compliance and more.

**For more information contact:** Richard Enander, RI DEM, (401) 277-3434.

## **VERMONT**

### VERMONT DEC

The Pollution Prevention Division is conducting its vehicle service workshops in September at five locations around the state. The topics include pollution prevention, environmental and OSHA regulatory compliance. The Division expects around 300 attendees. In addition, the Division has distributed pollution prevention information to over 2,500 vehicle service facilities in the state.

In August, the Pollution Prevention Division conducted a four-day training program for its retired engineers and professionals on-site technical assistance program. Training assistance was from the Alabama WRATT program of retired engineers, the Tennessee Valley Authority, NEWMOA and the State of New Hampshire, which recently instituted a program. The training was a great success with 24 participants in the program. The program will be administered out of the offices of Associated Industries of Vermont/WasteCap Program in Montpelier. On-site pollution prevention opportunity assessments will be conducted at no cost to Vermont businesses beginning in late September. Vermont businesses that are interested in scheduling an on-site assessment should contact Connie Leach Bisson at AIV (802-223-3441).

Starting in late September and continuing through the fall, the pollution Prevention Division will be sponsoring industry focus group meetings in an attempt to bring like industries together to discuss and share information on pollution prevention options and opportunities. Focus group meetings will also allow businesses to discuss issues and approaches to Toxics Use Reduction and Hazardous Waste Reduction Plans that are required of large quantity generators of hazardous waste and many small quantity generators. Focus groups that are planned include metal finishing and fabricating, printing, plastics and fiberglass, electronics, furniture manufacturing and finishing, vehicle service, and dry cleaning.

Toxics Use Reduction and Hazardous Waste Reduction Plans are required of large quantity generators by January 1, 1993 and by July 1, 1993 for small quantity generators of greater than 1200 kilograms per year. Most of the Pollution Prevention Division's technical assistance efforts will be directed towards these 300-400 facilities.

The Pollution Prevention Division has developed an information clearinghouse of Pollution Prevention documents that is accessible to any Vermont business. Upon request the Division will perform literature searches and provide copies of documents and case studies.

The Division now has a toll-free hotline to respond to technical assistance requests - 800-974-9559.

The Pollution Prevention Division continues to lead a Pollution Prevention Task Force within the Agency of Natural Resources that is developing pollution prevention pilot projects and investigating ways to integrate pollution prevention into technical assistance and regulatory programs.

A Toxics Technical Advisory Board (TTAB), consisting of small and large businesses, begins meeting in September 1992. Its function is to provide guidance to the Division on the development of technical assistance programs. One of the first functions of the TTAB will be to

work with the Division to develop an awards and recognition program for businesses implementing pollution prevention measures.

**For more information contact:** Gary Gulka, Pollution Prevention Division, (802) 244-8702.

## **EPA REGION 1**

### **WASTE MANAGEMENT DIVISION (WMD)**

Representatives of the Waste, Air and Water Division have distributed funding available for the Pitstops Project, according to the draft work plan developed by the Region's Pitstops Implementation Team, to a number of organizations that will work on this project over the next year. Region I hopes to begin this project during the Fall by holding a meeting with state P2 program offices to get input on the target audience for industry workshops in New England.

The Waste Division has received the final report from Hazardous Materials Management Program students at Tufts University on pollution prevention in wood furniture finishing. Copies of the report are available from Sally Mansur at (617) 223-5529.

The Waste Division has assisted the Massachusetts Office of Technical Assistance (OTA) for Toxics Use Reduction on its "Critical Parameters" project by identifying a speaker for a workshop on automotive waste management and reduction. The workshop will be held in Western Massachusetts in November. Grace Caner at OTA has more details at (617) 727-3260 x 696.

The Waste Division is sponsoring a project to be conducted by Dana Duxbury's Waste Watch Center on HHW and CESQG wastes. The project will involve convening a group of experts on these wastes from the states in New England to discuss problems with collection, disposal, participation, and funding, and integrating pollution prevention into collection program educational efforts. A model collection program will be developed after a meeting is held this Fall. Sally Mansur can be

reached at (617) 223-5529 for more information.

The Waste Division and the Planning and Management Division are collaborating to devise a system for cataloging P2 information from their library collections. Document data will be entered into a regional network accessible to all EPA Region I employees under a format devised by P2 Program Coordinators in these two offices and the EPA Region I Library. We hope that this system will complement the network now being developed by NEWMOA.

EPA Region I and Headquarters are sponsoring a technical forum to discuss reducing lead, cadmium and mercury at the source in six consumer products: lead soldered circuit boards, cathode ray tubes, cadmium-based thermal stabilizers in plastics, nickel-cadmium batteries, fluorescent tubes and thermometers and other mercury-measuring devices. These consumer products are part of the municipal solid waste stream and contribute lead, cadmium and mercury to municipal landfills and incinerators. The forum will be held December 2-3, 1992 in Providence, Rhode Island and attendance is by invitation only. If you work with these consumer products and their contribution to the municipal solid waste stream, and would like more information on the forum, please contact Cynthia Greene at 617-223-5531.

EPA Region I and the Massachusetts Office of Technical Assistance are co-sponsoring a conference entitled Pollution Prevention for the Coating Industry in Worcester, Massachusetts on October 1. Contact Janet Beloin at 617-565-2734.

### **Energy**

The Region I ENERGI (Green Lights, Golden Carrot, etc) energy-efficiency program is going strong. Cambridge-based Camp, Dresser & McKee, Inc. has become the first Region I engineering and environmental services company to join the Green Lights Program. Brandeis University is the latest academic institution in the Region to sign onto Green Lights. All in all, we now have over 50 participants: corporations, governments, manufacturers, lighting

management firms, utilities, and endorsers. The total square footage involved is up to over 160 million. Projected savings are over 700 million per year, over 480 metric tons of air pollutants, and over \$70 million in energy cost savings. Contact Norman Willard at 617-565-3243.

### PP PROGRAM

Region I is planning a two-day drive-up Car Care "Check Up and Clinic" to be held at a Boston-area mall to celebrate October Car Care Month. The event is being co-sponsored by the Massachusetts Lung Association and a local chapter of the American Automobile Association. Region I RA Julie Belaga and other local celebrities will participate. Exhibits to demonstrate technological advancement will include a natural gas vehicle, an electric car, an antique car and perhaps a Desert Storm jeep. Contact Norman Willard at 617-565-3243.

Region I produced educational bookmarks that describe what the Agency is doing to halt the release of ozone layer-destroying CFC's. Ten thousand bookmarks have been printed (on recycled paper, of course) for distribution to patrons of public libraries across the Region. Contact Norman Willard at 617-565-3243.

On September 13 on CNBC TV, Boston's Old North Church, one of Region I's first Green Lights trophies, will be featured in a half-hour show on Green Lights. Administrator Reilly will speak, and the show will be narrated by Dennis Weaver. The Old North Church project is praised by Reilly as an example of a high-visibility symbolic focus that draws attention to the Green Lights program. Contact Norman Willard at 617-565-3243.

### **Research**

A report entitled "Assisting the New England States in Implementing Reasonably Available Control Technology at Leather Finishing Plants" has been finalized and distributed to Region I states. This report summarizes the responses received from a survey of leather finishing plants and coating suppliers

on pollution prevention practices that was conducted by NESCAUM (Northeast States for Coordinated Air Use Management) with the assistance of EPA Region I. Contact Anne Arnold at 617-565-3166.

Summer intern Donna Vorhees completed an extensive review of links between the pollution prevention and indoor air pollution programs. Her paper, which highlights source reduction and waste minimization in the home, is circulating within the Region and in HQ; copies will be available soon for distribution to the states. Contact Janet Beloin at 617-565-2734.

The Planning and Analysis Section in Region I is currently analyzing the results of an in-house survey to assess current staff involvement in providing both regulatory and non-regulatory technical assistance to industry. The results of this survey will inform Region I decisions on how best to provide pollution prevention technical assistance in the future. Contact Mark Mahoney at 617-565-1155.

### **Strategic Planning**

Region I Divisions have completed their investment/disinvestment analyses and are on the verge of finalizing their Pollution Prevention Workplans for FY93 on October 1. These workplans will be distributed to the states. Divisions will be implementing the activities in these workplans in FY93, and planning for FY94 efforts: the next phase of workplans, as well as incorporating P2 into state grants. Contact Mark Mahoney at 617-565-1155.

### **New England Pollution Prevention Council**

EPA Region I and the New England Pollution Prevention Council are planning a second Pollution Prevention Transportation Forum for early 1993, and are working with other New England groups interested in sound transportation planning to develop the theme for the Forum. Contact Abby Swaine at 617-565-4523.

### **Grants**

EPA Division Directors and New

England State Commissioners met on September 2 to further discuss their joint interest in incorporating pollution prevention into EPA base grants to the states. This was a followup to a broader discussion at the EPA/Commissioners meeting June 18-19 in Nashua, NH. This project coincides with EPA Region I priorities under Strategic Planning, and with a push at EPA Headquarters to plan a substantial role for pollution prevention in base grants for the FY94 grants cycle. Contact Mark Mahoney at 617-565-1155.

**For more information contact:** Sally Mansur, EPA Region 1, (617) 223-5529 and Abby Swaine, EPA Region 1, (617) 565-4523.

## **EPA REGION II**

Region II's Freedom of Information Act (FOIA) Technician has asked her division's FOIA Coordinators to intensify current paper reduction practices in FOIA processing to reduce paper work and copying time. Her suggestions included:

- do not attach a copy of the incoming request with an agency response to a FOIA requestor, and do not make copies of this control slip. The External Programs Division keeps all original FOIAs/control slips on file;
- encourage your FOIA personnel to have their files available for review by requestors.
- double check your addressee list to avoid sending unnecessary copies.

She will also include a pollution prevention module in the Regional FOIA Training Course to be held in October with HQ trainers.

### **Lecture**

Joanne Underwood, President of INFORM Inc. will speak at EPA Region II on the morning of October 29. Ms. Underwood has personally, and on behalf of INFORM, received

three awards from EPA for work in pollution prevention. This lecture marks the one-year anniversary of Region II's pollution prevention lecture series.

### **Grants**

A 1992 Pollution Prevention Incentives for States (PPIS) grant was awarded to the Industrial Technology Assistance Corporation (ITAC) this month. ITAC will be continuing a Clean Industries project in Greenpoint/Williamsburg, Brooklyn that was started last year under a Public-Private Partnerships program grant.

### **Training**

On September 16 - 18, a pilot pollution prevention Train the Trainer course was held in Newark, NJ, which focused on the metal painting industry. The training was sponsored by Region II, in cooperation with CERI, NEWMOA, and WRITAR. Within the next couple of months, plans will be made for follow up trainings throughout the region.

### **Energy**

On the morning of October 16, an EPA Green Lights Forum for corporate leaders will be held at American Express Headquarters in New York's World Financial Center complex. American Express and Warner Lambert, two charter members, will deliver positive messages about their experiences implementing Green Lights.

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

## **TRAINING BRIEFS**

The participants in the last meeting of the Northeast States Pollution Prevention Roundtable (NE Roundtable) listed preparation of a PP training booklet as a priority project for the group over the next year. The proposed booklet would provide useful case studies,

exercises, agendas, training contacts and other information that state agency officials could use in developing PP training programs. The booklet would also list the training programs that states have already organized with contact names so that trainers in the Northeast states can learn from each other's experiences. Terri Goldberg, NEWMOA Pollution Prevention Program Manager, has begun to gather the material for the booklet and to outline its content. She would appreciate hearing from state and other PP trainers who are willing to contribute to the booklet. Please contact her at the NEWMOA office with suggestions and ideas for the booklet.

The NE Roundtable will be co-sponsoring a number of other training programs with EPA and the over the next year. These include a two-day train-the-trainer program for state PP and other staff, a one-day financial analysis for PP projects program, workshops in EPA Region II for facilities involved in metal painting operations, a workshop or conference in New Hampshire on PP for targeted hazardous waste generators, and workshops in EPA Region I for automobile fueling and maintenance facilities. In addition, NEWMOA is collaborating with MA DEP, MA TURI, and MA OTA on development of a one-day workshop on PP techniques for state agency managers. The outcomes of these workshops will be presented in future "Training Briefs" columns.

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

## **NEW POLLUTION PREVENTION PUBLICATIONS**

The following is a list of new publications on pollution prevention:

*Facility Pollution Prevention Guide*, U.S. EPA Office of Research and Development, EPA/600/R-92/088. Available free from the U.S. EPA Center for Environmental Research Information, (513) 569-7562.

*Pollution Prevention Options in Wood Furniture Manufacturing, A Bibliographic Report*, U.S. EPA Office of Pollution Prevention and Toxics, EPA/5608/8-92/001C. Available free from EPA's Pollution Prevention Information Clearinghouse (PPIC), (703) 821-4800.

*Pollution Prevention in Metal Fabricated Products Industries, A Bibliographic Report*, U.S. EPA Office of Pollution Prevention and Toxics, EPA/5608/8-92/001A. Available free from EPA's Pollution Prevention Information Clearinghouse (PPIC), (703) 821-4800.

*Industrial Pollution Prevention Opportunities for the 1990s*, U.S. EPA Office of Research and Development, EPA/600/8-91/052. Available free from EPA's Pollution Prevention Information Clearinghouse (PPIC), (703) 821-4800.

*Environmental Dividends: Cutting More Chemical Waste*, by Mark Dorfman, Warren Muir, Catherine Miller. Available for \$75 plus postage from INFORM, Inc. (212) 689-4040.

*A Citizen's Guide to Promoting Toxics Use Reduction*, by Lauren Kenworthy. Available for \$15.00 plus postage from INFORM, Inc. (212) 689-4040.

*Pollution Prevention*, by Louis Theodore and Young McGuinn. Available from Van Nostrand Reinhold, (606) 535-6600 for \$62.95.

*Pollution Prevention Case Studies Compendium*, U.S. EPA Office of Research and Development, EPA/600/R-92/046. Available free from the U.S. EPA Center for Environmental Research Information, (513) 569-7562.

*User's Guide: Strategic Waste Minimization Initiative (SWAMI) Version 2.0, A Software Tool to Aid in Process Analysis for Pollution Prevention*, U.S. EPA Office of Research and Development, EPA/625/11-91/004. Available free from the U.S. EPA Center for Environmental Research Information, (513) 569-7562.



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### ADDITIONAL UPCOMING EVENTS

● Pollution Prevention Conference on Low-and No-VOC Coating Technologies, May 25-27, 1993, San Diego, California. Call Colleen Northeim, Research Triangle Institute, (919) 541-5816 for more information.

● How to Perform a Life Cycle Analysis: A Conference and Workshop, September 30-October 2, 1992, Alexandria, VA. Call (703) 318-8970 for more information.

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