

NORTHEAST STATES POLLUTION PREVENTION NEWS

THE NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION
(NEWMOA)

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NORTHEAST STATES POLLUTION PREVENTION ROUNDTABLE

P2 Clearinghouse

NEWMOA manages a pollution prevention (P2) Clearinghouse of technical, regulatory and other information on industrial source reduction to assist manufacturers and state programs in the Northeast implement P2 projects. The NE P2 Clearinghouse currently contains over 1,200 books, reports, articles, fact sheets, and case studies. Interested individuals can use the NE P2 Clearinghouse by visiting the NEWMOA offices or calling NEWMOA's P2 Program Manager to request information. An order form to request selected publications that may be of particular interest to those involved in P2 programs is also available by contacting NEWMOA.

A list of the publications at the NE P2 Clearinghouse is included in the U.S. EPA Pollution Prevention Information System (PIES), which is a computerized information network of the Pollution Prevention Information Clearinghouse (PPIC). The NE P2 Clearinghouse is in a section of PIES called the Region I and II Northeast States P2 Roundtable Mini-Exchange. In addition to the list of P2 publications available in the NE P2 Clearinghouse, the PIES Mini-Exchange contains a list of people with expertise in pollution prevention. This list contains over 100 vendors, consultants, academics and environmentalists. Contact the NEWMOA office to find out how to access the PIES system.

The NEWMOA is constantly adding new materials to the Clearinghouse and periodically updates the list of publications and the experts list on the PIES Mini-Exchange. If you know of publications that should be in the NE P2 Clearinghouse or individuals or firms that should be included on the P2 experts list, please send NEWMOA their names and addresses.

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

CONTENTS

Connecticut	2
Maine	4
Massachusetts	4
New Hampshire	7
New Jersey	8
New York	9
Vermont	12
EPA Region I	13
EPA Region II	14
Training Briefs	15
New PP Publications	16
Additional Upcoming Events	17

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 (hazardous waste only), Rhode Island and Vermont. NEWMOA is a forum for increased communication and cooperation among the member states, a vehicle for the development of unified positions on various issues and programs, and a source of research and training on hazardous and solid waste management and pollution prevention. NEWMOA's pollution prevention program was established in 1989 to enhance the capabilities of the state environmental officials in the Northeast to implement effective source reduction programs. The program is called the Northeast States Pollution Prevention Roundtable (NE Roundtable). The NE Roundtable involves four components: (1) establishing a clearinghouse of information (2) conducting training sessions (3) researching source reduction strategies and (4) organizing NE Roundtable meetings and committee activities. NEWMOA's PP program is supported by grants from the U.S. EPA and by NEWMOA member states.

CONNECTICUT

CONNECTICUT DEP

Conferences Highlight Pollution Prevention

The Connecticut Department of Environment Protection (Department) held a conference for Small Quantity Generators (SQGs) of hazardous waste in March 1993 at which pollution prevention was prominently featured. The video "Pollution Prevention: The Bottom Line" was shown. A "Small Quantity Generator Guidance" booklet was developed and distributed. It includes a discussion on pollution prevention strategies, the Department's policy statement, and references and resources.

Approximately 195 businesses (38 percent large generators, 44 percent small quantity generators), as well as local government officials and consultants attended the conference. A second conference on these topics is scheduled for May. For more information contact Bet Flores at (203) 566-5369.

Department staff spoke on the topic of "pollution prevention" at the Connecticut Groundskeepers Association annual meeting in February 1992. At the meeting, the Department

announced that it is initiating a pollution prevention outreach project for turfgrass managers. Approximately 3,000 groundskeepers attended the meeting.

Fact Sheet Series Initiated

The Department has initiated a series of fact sheets to educate professionals and the public about the meaning, strategies, benefits, and successes of pollution prevention. Headlined "Pollution Prevention at the Source" the first fact sheet topic is "Facts and a Quiz".

Grass Clipping Source Reduction Program Begins

In an effort to promote source reduction, pollution prevention and recycling of organic wastes, the Department has just released a twelve minute video entitled "Don't Trash Grass!" which is aimed at convincing people to leave grass clippings on their lawns instead of bagging and throwing them away. The Department has been working closely with the MA DEP to produce additional public education materials including a brochure, a community action handbook and a radio PA to promote the "Don't Trash Grass!" program. Each state environmental agency in New England will receive customized "masters" of these materials and the video for reproduction and distribution in their states. For more

information on this project contact K.C. Alexander at (203) 566-8722.

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

CONN TAP

Ozone Layer Protection Conference and Exposition

The two-day Ozone Layer Protection Conference and Exposition will be held on September 8 & 9, 1993. The first day will feature presentations addressing non-ozone layer depleting solvents. The second day will feature practical demonstrations of non-ozone layer depleting solvents. The exposition will be similar to the Massachusetts Solvent Bazaar. Stay tuned to future issues of ConnTAP Quarterly for details.

Personnel

Walter Bonn joined the ConnTAP staff in the newly created part-time position of Site Visit Program Administrator. Walter's responsibilities include conducting initial visits, assigning site visit staff, and promoting the program. Walter brings over 36 years of industrial experience to the program. Most recently, Walter served as the senior vice president of operations for a Hartford recycling company.

Training

Staff gave a presentation to the Smaller Manufacturers Association (SMA) of Waterbury, CT. Staff addressed the difference between waste minimization and pollution prevention, benefits of pollution prevention, explained ConnTAP services and resources, and presented the ConnTAP video to approximately 60 attendees.

ConnTAP recently cosponsored the Focus On Large and Small Hazardous Waste Generators Conference. Staff gave presentations on managing empty containers and explained

ConnTAP's services and resources. Approximately 225 representatives from Connecticut businesses attended.

ConnTAP staff gave a presentation to teachers of autobody repair. The goal was to provide the teachers with general information on pollution prevention/waste minimization as well as specific methods to reduce waste in autobody shops. The talk was part of a curriculum development day at Central Connecticut State University.

Staff presented the ConnTAP, 10-Step, no-sweat guide to replacing ozone depleting chemicals, to approximately 60 attendees of a Connecticut Business and Industry Association (CBIA) meeting on the Clean Air Act Amendments.

A ConnTAP representative attended the two-day, Train the Trainer session in Lexington, MA on January 19 & 20, 1993. The training was provided by EPA and NEWMOA, with the goal of teaching important skills to individuals conducting pollution prevention training sessions and/or conferences.

Environmental Assistance Revolving Loan Fund (EARLF)

ConnTAP approved two applications for Environmental Assistance Revolving Loans. Both loan projects involved replacing ozone depleting chemicals with water-based cleaning systems. When completed, both projects combined will reduce emissions of ozone depleting chemicals by 57,000 pounds per year.

Matching Challenge Grants

Quality Rolling and Deburring recently completed its 1992 Matching Challenge Grant project. As a result of the grant study, the company will purchase an enclosed methylene chloride degreasing system. The "tight" system will reduce the company's solvent emissions by 80 percent.

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

MAINE

MAINE DEP

Maine DEP Pollution Prevention staff are currently "on the road" with Guidelines and reporting documents for the state toxic use reduction law. Twelve meetings are being held through May 93; about 100 companies have attended sessions to date. Part of each meeting is being used to solicit input from companies on what types of technical assistance they would use (i.e., compliance assistance, process assistance, etc.). We will share this information with NEWMOA when the project is complete.

As part of the DEP Total Quality (TQ) effort, the internal DEP P2 task force is developing a strategic plan for pollution prevention with the help of a volunteer facilitator. This effort helps to focus us and "do a few things right." Please contact us if you would like to see what we have developed so far.

The state P2 program has recently begun "TOEM" type P2 efforts with Boise Cascade paper company and now sits as a representative on Portsmouth Naval Shipyard's P2 Team. P2 staff and P2 Advisory Committee are looking at new revisions to the state's Haz Waste rules to identify obstacles to P2 efforts. Finally, DEP in cooperation with NEWMOA is sponsoring a P2 training session for all media programs on April 15, 1993. Response from staff has been exceptional to the offer to receive training for P2.

For more information, contact: Ron Dyer, ME
DEP 207-287-4152

MASSACHUSETTS

MASSACHUSETTS DEP

Toxics Use Reduction Planning

The Toxics Use Reduction Planner Certification regulations have gone out to public hearing. DEP has completed its revisions, and the regulations will be promulgated by the end of April. The regulations provide for two

certification "tracks". Individuals, who can demonstrate two years of experience in the activities needed to develop toxics use reduction plans, may be certified to approve plans developed at facilities owned and operated by their employer based upon information they submit on an application form. Individuals may also become certified as a TURP by completing a TUR planning course approved by the Administrative Council on Toxics Use Reduction and by passing a uniform certification exam offered by DEP. The examination is scheduled for June 5, 1993 at several locations.

DEP is about to begin developing Toxics Use Reduction Planning Guidance/Model Plan Sections to help industries interpret the intent of our plan regulations. We expect to work closely with industry volunteers to demonstrate a range of approaches firms can take.

Finally DEP is working with OTA and TURI in the development of a formal Plan Enhancement Program (PEP). PEP is designed to provide firms with the training in the planning process, economic and technical analyses, measurement issues, and pollution prevention measures. In addition the state agencies will be providing hands on technical assistance and encouragement to firms.

Toxics Use Reduction Reporting

The Form S and Form R have not changed from the last year. However, OTA and the Toxics Use Reduction Institute are spearheading revisions to the instructions designed to make it easier to fill out the forms. We expect to mail out reporting packages in the next few weeks. One of the questions that will be resolved prior to the mailing will be the question of how to resolve inconsistencies between the definitions in the CERCLA and TRI lists of chemicals.

We are presently entering the 1991 data, and expect to generate summary reports and 1990-1991 comparative reports in mid to late May. It is hope that the comparative reports will begin to reveal progress (or the lack thereof) toward our goal of 50 percent reduction in the

quantities of non product output generated by Massachusetts facilities. Data extracts will be available on floppy disks.

Waste Prevention F.I.R.S.T.

DEP has announced a reorganization of the Bureau of Waste Prevention. BWP is comprised of the Divisions of Solid Waste, Air Quality Control and Hazardous Materials and Industrial Wastewater. The latter division includes the RCRA, TURA and Industrial Wastewater Control programs. An Office of Program Integration has been established. This office will be responsible for coordinating compliance and enforcement, permitting, regulation development, training, reporting, program planning and non-facility programs across all the divisions. In addition it will be charged with seeing that a pollution prevention bias is built into all of our regulatory programs.

The regional offices, which are responsible for permitting, compliance and enforcement, have been given the option of organizing as they think best. However, each regional office must have an individual responsible for overseeing all BWP compliance and enforcement and another individual responsible for overseeing and coordinating all permitting activities. Regions have generally taken one of three approaches to this requirement:

- 1) reorganizing functionally with one compliance/enforcement and one permitting section;
- 2) giving one existing "media" section chief the additional responsibility for overseeing permitting, and another existing "media" section chief the additional responsibility for overseeing compliance and enforcement.
- 3) establishing two new positions to perform these functions in addition to the existing "media" section chiefs.

As of this summer all initial facility inspections will be done in accordance with the

F.I.R.S.T. (multi-media with a pollution prevention bias) methodology. This year EPA provided DEP with some relief from its a normal "Beans" to accommodate the F.I.R.S.T. approach, on a pilot basis. We expect to continue in our negotiations with EPA for the coming year.

DEP is working on an pollution prevention biased enforcement policy designed to insure that compliance is achieved through pollution prevention as opposed to treatment whenever possible. It will cover how to select facilities for which the policy is appropriate, and to define how alternative penalties, planning requirements, or other enforcement "tools" should be used to encourage pollution prevention. The policy will also discuss how to determine the situations in which pollution prevention biased enforcement is most relevant.

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

MA TURI

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

Research

On January 1st, the institute delivered the state-mandated report on chemical restrictions to the TURA Administrative Council. The report, entitled Toxic Chemical Management in Massachusetts: An Analysis of Further Chemical Restriction Policies, is a 186 page review of the state's capacity to restrict toxic chemical use, policy options for improving the programs, and a model for a managed toxic chemical transition process. The Administrative Council agreed to hold two public hearings on the report in May. Copies of the report or a shorter executive summary can be obtained by calling the Institute.

In February the Institute awarded funding to Merrimack College to launch a program in micro-scale chemistry laboratory testing. This program will provide a series of

workshops and fora on micro-scale practices that reduce the volume of toxic chemicals used by high school, college, medical lab and industrial lab professionals.

The Institute mailed a flyer to Massachusetts industries soliciting proposals for matching grants in January. These grants are awarded to Massachusetts firms to implement innovative TUR techniques. This is the second round of matching grants that TURI will award.

Education

Education and training activities have focused on a number of varied projects.

TURI's education staff and technical support staff and the Office of Technical Assistance have launched a new program to assist firms filing under TURA to prepare their toxics use reduction plans that are due in 1994. Officially called the "Plan Enhancement Project", or PEP, the project is a year long program to work intensely with firms and Toxics use Reduction Planners (TURPs) to match the needs of the firms with the technical and planning assistance they may require to prepare high quality plans. PEP will involve setting up an information telephone line, preparing a quarterly newsletter, convening a summer "TURA Filers Conference", presenting several "process assessment" workshops, and conducting a large number of on-site technical consultations.

TURI embarked on its fourth round of the Toxics Use Reduction Planners (TURP) Course. The course is being offered at Worcester Polytechnic Institute and at the Lowell and Amherst campuses of the University of Massachusetts. Approximately 81 individuals enrolled in these sessions. Over 280 individuals have attended the course since its introduction in March 1991. The next round of courses is planned for fall 1993. Course dates and locations will be determined in the late spring.

The Education and Training staff completed an educational series in conjunction with the Massachusetts Corporation of Environmental Technology (MCET). The series, entitled "Paper; Manufacture, Use and Disposal",

was developed to involve middle school students in a comprehensive curriculum unit to investigate the processes and environmental impacts of the production, use, and disposal of paper products. The broadcasts were aired in middle school classrooms in January and February.

TURI staff recently participated in the fifteenth annual New England Environmental Conference held at Tuft's University on March 20-21, 1993. TURI staff members conducted three workshops on environmental issues.

The proceedings from the National Roundtable on State Pollution Prevention Programs held at UMASS Lowell in October, 1992 were compiled in January and are available.

Technical Support

Work continues on the Alternatives in Dry Cleaning Project. Based on work completed by the Neighborhood Cleaners Association and the U.S. EPA, this project organized three focus group meetings for dry cleaners at three sites around the state. The focus groups met in March to review the best practices in pollution prevention as well as the new Eco Clean process as potential alternatives.

In February the Alternatives in Commercial Printing Project completed three focus group meetings in the northeast states. Working on an U.S. EPA funded project, Institute staff conducted focus group meetings for commercial printers in New Jersey and Massachusetts. These meetings provided a chance for printers to share ideas on pollution prevention and to provide input to EPA officials in implementing the "Design for Environment" program.

In December, TURI mailed a vendor survey to over 800 vendors of products and services that promote toxics use reduction. The purpose of the survey was to learn more about resources available in the private sector. TURI's Technology Transfer Center is currently compiling lists of products and services that are environmentally friendly in the form of a database for use by Massachusetts companies.

During the months of December and January, the Technology Transfer Center handled 29 requests for information on topics ranging from lubricating oil substitution to TUR plan requirements. As of February, the Center sent out its second mailing to the 44 metal finishers participating in the Metal Surface Finishing Pilot Project.

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

NEW HAMPSHIRE

NEW HAMPSHIRE DES

Outreach

The NHPPP has finalized the location and date of the Solvents Bazaar, now scheduled for August 12, 1993 at the Center of New Hampshire in Manchester, NH. The initial planning stages have included completing a survey to compile a list of vendors who wish to participate and an initial mailing to notify companies of the event. Attendee lists are being prepared with help from Merrimack Project Coordinators in an attempt to focus on the Merrimack River watershed in New Hampshire and Massachusetts.

The first issue of the NHPPP newsletter, entitled 'WASTELINES' was compiled, edited and sent to print. The content of the newsletter provides industry with information on new waste minimization techniques, regulatory information, answers to common questions and a calendar of upcoming events. The first issue will be available for mailing by April 1st, if you would like a copy please contact Liz Todd at the NHPPP.

Multi-media Task Force

At the multi-media task force meetings, the Industrial Pretreatment Program and Nonpoint Source Program identified some industries that may benefit from P2 technical assistance, such as one hour photo finishing shops and laundries (especially those that discharge to

small streams). They also suggested that P2 be incorporated into NPDES permits.

The pollution prevention strategy to institutionalize P2 within the department was outlined in a formal strategy statement to be adopted by the DES. The goals identify areas of common interest between programs and bureaus, specify P2 activities to be pursued by the divisions and programs, and recommend policy and regulatory initiatives.

In-House Library

The "In Magic" database is currently being updated to provide full documentation of our technical papers. Two additional databases under consideration are a vendor database and a case studies products and equipment database promoting source reduction and waste minimization. These are currently being reviewed and an outline drawn up for an "In Magic" database.

Under an Intern Grant, a student at the University of New Hampshire is reviewing existing out of state case studies in order to compile a database when the project is completed. This project will be completed by summer resulting in formation of a separate In Magic database.

Case Studies Project

Working under EPA, AC&C Grant funding, the NHPPP and the University of New Hampshire will research and create a series of P2 case studies from New Hampshire businesses. Graduate students from the Engineering school, along with NHPPP personnel will research and document waste minimization efforts at approximately 12 to 15 businesses as a summer intern project.

On-Site Waste Minimization Assessments

Two waste minimization assessments were completed in January, one at a metal working facility and the second at a circuit board manufacturer. The PCB company clearly illustrated the steps they have taken to

completely eliminate hazardous waste. They demonstrated the equipment and products employed including a waste-based flux, wave solder machine and an aqueous washing unit. The environmental engineer at the company manufacturing circuit boards expressed an interest in documenting their success with pollution prevention techniques as a case study for New Hampshire.

A National Guard Base requested that a NHPPP team provide them with assistance in waste minimization techniques. This resulted in a pre-assessment evaluation of the facility. Areas to be targeted were identified enabling a final walk-through with our engineers to be completed in April.

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

NEW JERSEY

NEW JERSEY DEPE

Commissioner Weiner signed the pollution prevention final rule on February 1, 1993. The rule and response to comments appeared in the March 1, 1993 New Jersey Register. The Department plans to repropose a number of issues, all of which are listed in the rule package that was just adopted. A draft of the reproposal was submitted for DAG review at the end of the month. The reproposal will include the following topics: allowing Pollution Prevention Plans to remain on-site; new Plan review criteria; clarified penalties for failure to prepare a Plan and for false or frivolous confidentiality Claims; and several other relatively minor reporting changes. The reproposal is expected to appear in the April 19 New Jersey Register. For more information, call Jeanne Herb at (609) 777-0518.

OPP did a mass mailing of the pollution prevention rule adoption and a descriptive overview of the regulation. Approximately 600 information packets were mailed to people on the OPP mailing list, including individuals who sent in written comments or testified at OPP

workshops. Notices about the rule and educational materials were also sent to all 800 facilities covered under the Act. For more information, contact Jeanne Herb at (609) 777-0518.

OPP received 29 applications for the Governor's Award for Outstanding Achievement in Pollution Prevention. The breakdown of applications by category is as follows: small business (1-100 employees) - 3; large business (over 100 employees) - 16; other organizations, trade associations, public entities - 4; DEPE employees - 6. The judges will be meeting on March 16 to discuss the award nominations and to select winners. For more information, call Deborah Milecofsky at (609) 777-0518.

OPP spent time planning the development of its database on which industrial reported information will be contained. OPP will meet with the community Right to Know program in early March to discuss the potential of piggybacking onto a request for proposal that the RTK program will be developing in order to develop its database.

OPP met with representatives of the General Accounting Office on February 5. GAO is doing a national review of state pollution prevention programs with the goal of providing recommendations on the need for federal legislation. OPP outlined the New Jersey pollution prevention program and also raised a number of issues that the program has dealt with in development of the pollution prevention regulations.

Five site visits were conducted by OPP as part of the case study investigation on the usefulness of throughout data for pollution prevention measurement purposes. Facilities in SIC codes 2841-43 and 2834 have been targeted for analysis of their existing data under federal Form R and the state's Right-to-Know forms.

OPP hosted a Douglass College intern for the week of January 18 as part of an effort to increase college student's awareness of environmental career opportunities.

As a member of the DEPE's CFC Steering Committee, Mike Aucott helped draft submitted comments to USEPA's proposed CFC emissions control regulations on January 22. The comments addressed a number of serious shortcomings in the EPA proposal.

On January 11, 1993, OPP staff participated in a public hearing concerning revisions to the air permitting regulations (N.J.A.C. 7:27-8.1). The rule revisions provide incentives for pollution prevention through operational flexibility that allows facilities to make certain changes to equipment without receiving pre-approval from the Department. The revisions only apply to facilities receiving a multi-media, facility-wide permit (18 facilities maximum) as defined under the Pollution Prevention Act. The Department will be using the facility-wide permit program for testing other changes in the regulations in an attempt to build a multi-media, pollution prevention focus into the existing permit programs. The Regulation Program has the lead on finalizing the rule. The comment period for the rule ends on January 22, 1993, and the rule is expected to be adopted in February 1993. Contact Richard Langbein of the Air Regulation Program at (609) 773-2753 or Steve Anderson of OPP at (609) 777-0518 for additional information.

Once again, prevention was not a happening in OPP. The Office is proud to announce a new addition to the family: John Steven Anderson was born on January 19, 1993.

For more information contact: Steve Anderson, NJDEPE (609) 777-0082.

NJTAP

The New Jersey Technical Assistance Program's (NJTAP) will be providing pollution prevention training for regulatory personnel (from a Publicly Owned Treatment Works and local government). This will develop their awareness of source reduction opportunities at the industrial facilities that they regulate, which in turn can help these companies attain environmental compliance and save money on

decreased raw material and waste treatment usages.

NJTAP has been awarded a research contract from the Northeast Hazardous Substance Research Center for \$30,000. The project is the Development and Delivery of a Pollution Prevention Awareness Training Program for Field Personnel of a Publicly Owned Treatment Works. Kevin Gashlin and Alan Ulbrecht are the project investigators.

For more information contact: Kevin Gashlin, NJ TAP (201) 596-5864.

NEW YORK

NEW YORK STATE DEC

Toxic Chemical Reduction Plans Regulation (Part 378)

The purpose of this proposed regulation is to require those in New York State who generate hazardous waste and emit, discharge or release toxic chemicals, to reduce the generation of hazardous waste and toxic chemicals that are to be discharged, disposed or emitted into the environment to the extent technically feasible and economically practicable. DEC's revisions to the draft proposed regulations are based on the comments received from The Business Council of NYS, Inc., environmental groups and the New York State Legislature. An advisory group made up of these same interest groups will meet to review the updated draft of the rule this spring. A final draft should be available by the end of the summer when statewide public hearings will be conducted. The schedule provides for a final rule to be promulgated and in effect by the spring of 1994.

Pollution Prevention Conference

The Sixth Annual Pollution Prevention Conference is scheduled for June 7, 8 and 9, 1993 at the Desmond in Albany, New York, and will be cosponsored by the DEC and The Business Council of New York State, Inc. This year's conference theme is "An Integrated

Approach to Pollution Prevention" and will focus on multi-media pollution prevention issues providing a forum for business and industry, corporate and plant managers, government officials, legislative members, citizen and environmental groups, and scientific, technical and academic professionals.

Pollution Prevention Bulletin

DEC will be publishing a Pollution Prevention *Bulletin* twice yearly, and will keep readers informed about DEC's activities related to multi-media pollution prevention including the conference and technical assistance opportunities. For more information contact Linda Beagle, PPU, DEC, (518) 457-2480.

Multi-Media Inspection Checklist

One of DEC's goals in the multi-media pollution prevention initiative has been to develop and implement an integrated management plan for facilities to optimize environmental protection, maximize staff efficiency and produce a reasonable and equitable regulatory climate for New York businesses and industry. In DEC's Region 4 office, a pilot project was conducted to help create one of the tools necessary to achieve this goal. The objective of the pilot project was to develop a multi-media inspection program that allows an entire facility to be examined at one time as well as allowing for observation and reporting by single medium inspectors.

The multi-media inspection program uses a checklist that details the facility description, its process and major areas of concern and relies on common sense observations that point to potential problems for all environmental media. Implementation of multi-media inspection programs will require staff to become knowledgeable in manufacturing operations and to have a general understanding of the entire facility. A team approach was used in the pilot project to train inspectors in the needs of other regulatory program units.

Staff involved in the pilot project have responded strongly in favor of the new inspection procedures and have worked hard to make the

project succeed. As inspections continue, staff will be refining the inspection checklist, expanding guidance and assisting in developing a flexible user-friendly data management system. The pilot project, now being refined, has been successful and will be used as a model for multi-media inspections statewide.

TRI and "400/95" List

DEC has published a 1991 Toxic Release Inventory Report (TRI) for New York State. DEC will use the TRI data along with other information available from regulatory programs (e.g. hazardous waste generation) to identify facilities responsible for the largest releases to the environment. Toxicity information on TRI releases will be used along with the reported quantities as part of the DEC's pollution prevention initiative. Data reveal that approximately 400 existing facilities produce 95 percent of the toxic discharges to air and water and generation of hazardous waste in New York State. Approximately 10 percent of these facilities will be the focus for the DEC's multi-media pollution prevention this coming year.

For more information contact: Mary Werner, NYS DEC, (518) 457-2480.

NEW CITY DEP

The Clean Industries Program announces that a new pollution prevention field engineer, Mr. Kevin Kelly, has joined the staff. Mr. Kelly replaces Peter Brakman, who accepted a position in investment banking earlier this year. Mr. Kelly holds a masters degree in civil engineering and hazardous materials management from Tufts University. He can be reached at (212) 240-6920.

With the hiring of Mr. Kelly, the Clean Industries Program (a partnership between the New York City Industrial Technology Assistance Corporation and the New York City Department of Environmental Protection) will resume its field operations funded through a U.S. EPA \$200,000 matching grant.

For more information contact: Jeffrey Potent,
NYC DEP, (718) 595-6579.

ERIE COUNTY PP PROGRAM

The Erie County Office of Pollution Prevention continues to provide technical assistance and information to small and medium sized businesses. In January 1993, Erie County was awarded a grant from the New York State Energy Research and Development Authority to work with vehicle maintenance facility operators and to reduce used oil filters. The project will assess the economic feasibility of recycling used oil filters versus current landfill disposal procedures. Used oil has not been listed as a hazardous waste in New York State.

ECOPP is working with the State University of New York at Buffalo School of Engineering to initiate a graduate internship program. The program will enable graduate students in various fields of engineering to earn college credits while assisting companies in establishing pollution prevention/waste reduction programs. This project will focus on identifying processes, monitoring, and recommending modifications that promote pollution prevention and operational efficiency.

ECOPP downlinked the CAMP "Alternatives to Solvents Teleconference" - February 1, 1993. A panel of local regulatory officials and sales representatives provided additional information. ECOPP is interested in participating in future pollution prevention teleconferences.

The evaluation of the Erie County Industrial Pollution Prevention Program has been completed by a consulting firm. A final report will be submitted to ECOPP by April 23, 1993. The ECOPP Policy Statement will also be completed at that time.

Erie County's Agricultural Pollution Prevention Program is working with the NYS DEC and the Erie County Farm Bureau to conduct a "Clean Sweep" Pesticide Collection Program designed to help farmers eliminate

waste pesticides from their property to reduce potential non-point source pollutants from Erie County's watersheds.

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

SUFFOLK COUNTY WATER AUTHORITY

The Suffolk County Water Authority will be offering a workshop on "Waste Minimization Opportunities for Metal Spray Painting Operations" on May 20, 1993 at the Huntington Hilton in Melville, Long Island. The workshop will provide information on alternatives that industry and autobody shops involved in spray painting operations can implement to reduce solvent use and VOCs emitted, that will also help them to reduce disposal costs, environmental liability and improve worker conditions at their facilities/shops.

The Suffolk County Water Authority has been awarded an OSHA grant in the amount of \$30,000 for fiscal year 1994, to develop and implement an occupational health and safety training program for water utility workers and vehicle maintenance workers on general worker "Right to Know" laws and industry specific areas of health and safety concern such as working in confined spaces, chlorine gas cylinder handling.

The Suffolk County Water Authority's Source Reduction Program has over the past few months provided assistance to local business, industry and institutions in the following areas:

- Sponsored an exhibit at the Suffolk Community College Energy Fair -- how water conservation measures can save money and energy.
- Provided customers with information on water conservation devices.
- Assisted local students on school projects focused on ground water pollution and the Long Island aquifer system.

- Provided assistance to a local contractor on compliance with local pretreatment standards for medical facility dark room.
- Furnished information on ventilation systems to a vehicle maintenance facility.

For more information contact: Judy Jakobsen, SCWA Source Reduction Program, (516) 563-0308.

VERMONT

VERMONT DEC

The Pollution Prevention Division (PPD) of the Agency of Natural Resources has been active in industry-specific technical assistance efforts. Industry specific focus group meetings are continuing with a number of industries to assist them in developing toxics use reduction and hazardous waste reduction plans and to share information on pollution prevention opportunities. Since January the PPD has held focus group meetings with the following industries: furniture finishing and automotive. Additional meetings with most of these groups are anticipated, the meetings have been invaluable in the networking problems and solutions. The meetings also have served to promote collaboration between business and government in promoting pollution prevention.

The PPD has remained active with the automotive and trucking service and repair industries. Regulatory and pollution prevention information has been mailed to over 2500 facilities. In April and May the PPD will be sponsoring at least 12 breakfast seminars in the population centers of the state to educate the industry on pollution prevention and regulatory issues. Many prevention measures ranging from solvent elimination, better antifreeze through recycling and reuse. Many of these facilities that were defined as small quantity generators have found that they could easily become conditionally exempt generators through implementation of pollution prevention measures.

The PPD will be sponsoring a solvent alternative technology exhibition on June 17 in Barre, Vermont. The event will be modeled after the Massachusetts Solvent Bazaar, and industries will be invited from the metal working and finishing, automotive, printing industries to bring their dirty parts in for cleaning in by a number of technologies that eliminate the use of chlorinated solvents.

The Retired Engineers and Professionals (R.E.A.P.) Program that is funded by the PPD has initiated over 25 pollution prevention assessments at Vermont industries. Over 20 engineers and professionals are currently participating in the program. Participation in this free and confidential service can be arranged through Vermont WasteCap at 800-439-9559.

On Earth Day Governor Howard Dean will be announcing a statewide Environmental Excellence in Pollution Prevention awards program that will recognize pollution prevention efforts by business and industry, individuals and organizations. Application forms will be available at this time and awards are to be made in September.

The PPD is initiating a small matching grants program with grants of up to \$5000 to businesses and industries who are studying and implementing innovative pollution prevention measures. Further information is available through the PPD.

The PPD through the agency-wide Pollution Prevention Task Force has been promoting environmental leadership projects at the Agency of Natural Resources. A ridesharing awareness week has been scheduled for the week of May 17-21 to promote and increase the amount of ridesharing done by Agency employees. A computer program and database has been developed to match riders with rides. The Environmental Leadership group has also developed a green guide for purchasing that will be available for purchases made by state government.

The Pollution Prevention Task Force has also developed a multi-media inspection checklist

for environmental inspection programs that will be introduced into use in May.

The PPD will be presenting a workshop at the 1993 Governor's Prevention Conference on April 28 and April 29. Although the focus of the conference is on promoting the well being of children, families, and communities through health care preventative measures, the PPD was invited to talk about pollution prevention, jobs and the environment. The PPD, as usual, seizes any opportunity to speak to a captive audience on prevention!

The PPD is interested in developing an alternative coatings event that is of a more hands-on nature or along the lines of the solvent bazaar. If you have any ideas or interest please let us know.

For more information contact: Gary Gulka, VT ANR, (802) 244-8702.

EPA REGION I

Transition

The Pollution Prevention Division in Washington reports that their briefing with Carol Browner went well, as was expected based on her keen interest in pollution prevention. Of all the Division's pollution prevention efforts, the Design for the Environment (DFE) program interested Administrator Browner the most. For more information on DfE (it's too complicated to describe here!), contact Abby or Mark.

Strategic Planning

Region I Divisions continue to implement the dozens of activities in their FY93 Pollution Prevention Workplans. In April, Divisions will begin reporting on their progress in implementing both single- and cross-Division activities to senior management.

In the meantime, groups in each Division have begun formulating activities to propose for next year's (FY94) Pollution Prevention Workplans. Leads from each Division met in

March to propose new and continuing cross-Division activities. Although the target region-wide commitment for pollution prevention activities is 15 percent of Region I FTEs, we are concentrating above all on planning activities that are well-defined, measurable, and supported by clear accountability.

Regarding the other facet of our current Strategic Planning effort -- incorporating pollution prevention into key continuing state grants -- Region I Division Directors and staff are in the process of negotiating basic agreements with the states that submitted proposals for shifting FY94 grant funds away from traditional activities toward pollution prevention. All Region I staff involved in negotiating state grants have received a briefing on this grant flexibility effort to prepare them to negotiate with the states over specific deliverable.

Inspector Role

At the February 17 meeting between Region I and the New England state environmental commissioners, DRA Paul Keough and attorney Joel Blumstein provided an overview of the history and issues associated with Region I's "White Paper" (on the roles of regulatory and non-regulatory staff in providing technical assistance and other pollution prevention information to the regulated community). Several Commissioners provided interesting feedback during the meeting. Final written comments on the February 4 draft comments we received were fairly mild, indicating that Region I had managed to provide some reassurance on the issue of how the states would be affected by this guidance.

Beginning April 1, Region I will hold a mandatory training course for EPA inspectors on their role in pollution prevention. After our current inspectors receive this separate training, the pollution prevention module will be incorporated into our basic inspector training course. The materials are nearly ready. We will distribute copies to state pollution prevention staff.

New England Pollution Prevention Council

EPA Region I and the New England Pollution Prevention Council (NEPPC) are planning a Pollution Prevention Transportation Roundtable for June 1993. The goal is to motivate business leaders and environmental group directors to cooperate in advocating for sound transportation planning as a way to address the requirements of the Clean Air Act and the Intermodal Surface Transportation Efficiency Act.

Grants

The Pollution Prevention Incentives for States (PPIS) grants program will be delegated to the Regions shortly. EPA Headquarters expects that national notice of the program will appear in the Federal Register by the end of March. Region I is currently developing its own awards process and drafting guidance to provide to the New England states.

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

EPA REGION II

EPA Region II and the U.S. Postal Service (USPS) have completed a joint Pollution Prevention Opportunity Assessment (PPOA) at the Western New York General Mail Facility (GMF) and Vehicle Maintenance Facility (VMF) in Buffalo. The assessment was conducted to investigate potential pollution prevention alternatives for GMF mail processing operations and VMF vehicle servicing and refinishing operations. A number of alternatives to reduce and/or recycle wastes generated by the GMF and VMF were identified. By implementing the alternatives, the USPS can significantly reduce the environmental impacts of facility operations and save more than \$100,000 annually on waste disposal costs from the two facilities. In addition to the Buffalo facilities, the options identified are generally applicable to the other 270 GMFs and 350 VMFs nationwide.

As a follow-up to the training ORD provided in Region II for the metal painting industry, and the materials WRITAR is developing on metal painting, electroplating, and metal parts degreasing, plans are being made for trainings throughout Region II in FY-93. The first training will be hosted by the Suffolk Co. Water Authority in May primarily for the auto painting industry.

Region II has an ever-growing pollution prevention section in the regional library. The section has documents and videotapes, including tapes of the Region's Pollution Prevention Lecture Series.

Green Lights

As a result of the Green Lights recruiting workshops, Region II co-sponsored in the last quarter of FY-92, Amerada Hess Corporation, Rhone-Poulenc, Inc., Campbell Soup Company, Hospital Association Headquarters in Princeton, New Jersey, Hackensack Medical Center and Community Medical Center of Toms River, New Jersey, have joined the Green Lights Program. Co-sponsors of the workshops were American Express, Green Lights Utility Allies, and the New Jersey Hospital Association.

In FY-93 Region II is actively recruiting the Port Authority of New York, New Jersey's three airports, and F.W. Woolworth Corporation to join the Green Lights Program.

In February 1993 Region II recruited New Jersey's American Littoral Society and Clean Ocean Action as endorsers, pointing out that avoided fossil fuel emissions from power plants means less deposition of harmful nitrogen compounds in coastal waters and bays.

In May 1993 Region II will co-sponsor a recruiting event with the New Jersey Business and Industry Association and the New Jersey Electric Utility Allies for companies that employ more than 100 persons. It is expected that the Association will join the program as an endorser at the event.

During this past year two activities that involved contacting corporate facilities were conducted. The first activity was entitled "Regional Administrator Phone Call Initiative". It consisted of contacting sixteen corporations that had not responded to EPA Headquarters mailings. Of these, eight had already committed or were in the process of having commitments developed, six would not commit and two were not sure. The Environmental Services Division selected five corporations for the Regional Administrator to contact personally either through phone calls or letters. This activity was completed March 1992.

Emissions Trading

Four NY and NJ utilities have accounts in EPA's Allowance Tracking System, and will be eligible to participate in the first environmental auction in Chicago on March 29, allowing emission trading under EPA's innovative market-based program to reduce sulfur dioxide emissions.

Outreach

Region II participated in the NY Flower Show in March. Staffed exhibit booths promoted pesticide reduction, integrated pesticide management, alternatives to synthetic pesticides, etc. Publications on lawn care and pesticide reductions were available.

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

TRAINING BRIEFS

Handbook

NEWMOA recently published the *Northeast States Pollution Prevention Training Handbook*. The Handbook is designed to provide agendas, case studies, and exercises for state environmental programs in the Northeast to use in designing and conducting training on pollution prevention (P2). The idea for the

Handbook grew out of P2 instructor training courses offered by NEWMOA and EPA Regions I and II. The training materials in the Handbook were compiled from a survey of state and EPA Regions I and II program contacts in the six New England states, New Jersey and New York. The Waste Reduction Institute for Training and Applications Research (WRITAR) and EPA Headquarters provided additional information. The 417 page Handbook provides tips on facilitating participatory training, training materials for use in training industrial and commercial firms on P2, training materials for use in training staff and management in public agencies, and resources and contacts for additional information. Copies of the Handbook are available by contacting NEWMOA at the phone number listed below. To cover the cost of printing and handling, NEWMOA is charging \$80 (\$40 for non-profits and government agencies) for the Handbook.

Industry Workshops

NEWMOA is collaborating with EPA Region II states on training workshops for facilities with metal painting operations. The purpose of these workshops is to inform small and medium size firms involved in metal painting of the P2 opportunities and options available to them. Thus far, we are planning four workshops in the Region. The first of these workshops is being organized by the Suffolk County Water Authority in May. They are collaborating with a local trade association in developing the workshop agenda and conducting outreach to potential participants. For more information on the workshops, contact NEWMOA at the number listed below.

NEWMOA and MA OTA were recently informed that we will be receiving a grant from the Northeast Hazardous Substance Research Center (NHRSC) to develop and pilot a workshop curriculum on financial analysis for pollution prevention projects for industry audiences. This grant builds upon a previous project that NHRSC supported that developed a training curriculum on financial analysis methods for state agency audiences. NEWMOA and MA OTA plan to utilize the case studies and other materials that were written for the previous

project in developing a curriculum for the industry workshops on financial analysis methods. The NHRSC project is scheduled to begin in July.

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

NEW POLLUTION PREVENTION PUBLICATIONS

The following is a list of new publications on P2:

Solvent Substitution for Pollution Prevention, U.S. Department of Energy and U.S. Air Force, Noyes Data Corporation, Mill Road, Park Ridge, NJ 07656, 1993.

Pollution Prevention Technology Handbook, Edited by Robert Noyes, Noyes Data Corporation, Mill Road, Park Ridge, NJ 07656, 1993.

Project Summary, Pollution Prevention Opportunity Assessment, General Mail and Vehicle Maintenance Facility, U.S. Postal Service, EPA Contract Number 68-C8-0062, Risk Reduction Engineering Laboratory, Office of Research and Development, U.S. EPA, Cincinnati, OH 45268.

Building State and Local Pollution Prevention Programs, EPA-130-R-93-001, U.S. EPA, Office of Cooperative Environmental Management, Office of the Administrator, A101-F, Washington, DC 20460, (202) 260-6883.

Toxic Chemical Management in Massachusetts, The Massachusetts Toxics Use Reduction Institute, University of Massachusetts Lowell, One University Ave., Lowell, MA 01854-2881, (508) 934-3275.

Study of Process and Equipment for Reducing Consumption and Emissions of 1,1,1-Trichloromethane and Perchloroethylene, July 1992, ConnTAP, (203) 241-0777.

Production of Hydrogen and Chlorine Via Photovoltaic Electrolysis of Sea Water: An Investigation of the Efficiency of the Process of Using Graphite Electrodes, July 1992, ConnTAP, (203) 241-0777.

Treating Emulsified Oily Wastewater for Reuse, October 1992, ConnTAP, (203) 241-0777.

The following assessments are available from NTIS (the titles of these documents are "Waste Reduction Activities and Options for" followed by the citation listed below). When contacting NTIS to order documents use the document identification number listed below. NTIS can be reached by calling (703) 487-4650.

Autobody Repair Facility, Kevin Gashlin and Daniel Watts, PB93-123156, October 1992.

Printing Plate Preparation Section of a Newspaper, Alan Ulbrecht and Daniel Watts, PB93-126563, October 1992.

A Manufacturer of Fine Chemicals Using Batch Processes, Patrick Eyraud and Daniel Watts, PB93-126308, October 1992.

A Manufacturer of General Purpose Paints and Painting Supplies, Alan Ulbrecht and Daniel Watts, PB93-126316, October 1992.

An Electrical Utility Transmission System Monitoring and Maintenance Facility, Kevin Gashlin and Daniel Watts, PB93-126639, October 1992.

A Manufacturer of Finished Leather, Patrick Eyraud and Daniel Watts, PB93-123115, October 1992.

A Manufacturer of Paints Primarily for Metal Finishing, Patrick Eyraud and Daniel Watts, PB93-123123, October 1992.

A Manufacturer of Writing Instruments, Patrick Eyraud and Daniel Watts, PB93-123131, October 1992.

A Manufacturer of Room Air Conditioning Units and Humidifiers, Hana Saqa and Daniel Watts, PB93-123149, October 1992.

A Fabricator and Finisher of Steel Computer Cabinets, Kevin Gashlin and Daniel Watts, PB93-123164, October 1992.

A Manufacturer of Artists Supply Paints, Alan Ulbrecht and Daniel Watts, PB93-123172, October 1992.

A Manufacturer of Wire Stock Used for Production of Metal Items, Alan Ulbrecht and Daniel Watts, PB93-123180, October 1992.

A Manufacturer of Commercial Refrigeration Units, Kevin Gashlin and Daniel Watts, PB93-123198, October 1992.

A Transporter of Bulk Plastic Pellets, Hana Saqa and Daniel Watts, PB93-123206, October 1992.

A Manufacturer of Electroplated Wire, Alan Ulbrecht and Daniel Watts, PB93-123214, October 1992.

A Manufacturer of Systems to Produce Semiconductors, Alan Ulbrecht and Daniel Watts, PB93-123222, October 1992.

A Manufacturer of Fire Retardant Plastic Pellets and Hot Metal Adhesives, Hana Saqa and Daniel Watts, PB93-123248, October 1992.

A Laminator of Paper and Cardboard Packages, Hana Saqa and Daniel Watts, PB93-123290, October 1992.

ADDITIONAL UPCOMING EVENTS

● Microscale Laboratory Workshops for High School Chemistry Teachers, May 21-23 and June 11-13, National Microscale Chemistry Center, Merrimack College, North Andover, MA, Ron Pike, (508) 683-7111.

● Waste Stream Minimization and Utilization, Technology Fair, April 22-23, Stouffer Austin Hotel, Austin, TX, Conference Registrar, Donaldson Brown Center for Continuing Education, Virginia Tech, Blacksburg, VA 24061-0104.

● RCRA Reform, Pollution Prevention and Enforcement -- New Policies and Procedures for 1993, April 20-21, Stouffer Concourse Hotel, Arlington, VA, (800) 424-9068.

● Pollution Prevention Courses: 1993 National Regulatory Update, May 6, 1993; Practical Management Action Strategies, May 7, 1993, Stouffer Concourse Hotel, Arlington, VA, (301) 921-2345.

● Environmentally Conscious Design and Manufacturing, April 18-20, Dearborn Inn, Dearborn, MI, (800) 338-2223.

● Air & Waste Management Association, 86th Annual Meeting and Exhibitions, June 13-18, Colorado Convention Center, Denver, CO, (412) 232-3444.

● Tufts University, Sixth Annual Environmental Management Institute, Managing Now for a Sustainable Future, June 7-July 1, 1993, Center for Environmental Management, (617) 627-3531.

● From Rio to the Capitals, State Strategies for Sustainable Development, May 25-28, Louisville, KY, (502) 564-2611.

● Pollution Prevention Conference on Low- and No-VOC Coating Technologies, May 25-27, U.S. EPA, San Diego, CA, (919) 541-5816.

● Environmental Issues in the Forest and Paper Industry, June 27-29, 1993, University of Maine in Orono, (207) 581-2301.

● Zero Discharge of Industrial Wastewater Conference, May 27, 1993, Sturbridge Hotel and Conference Center, Sturbridge, MA, (617) 367-8554.

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

NEWMOA would like to thank the following people for helping to write and produce this newsletter: Mary Sherwin, Andrew Vecchio, Ron Dyer, Suzi Peck, Beverly Johnson, Vince Perelli, Steve Anderson, Kevin Gashlin, Mary Werner, Jeffrey Potent, Tom Hersey, Judy Jakobsen, Gary Gulka, Abby Swaine, Janet Sapadin, and Terri Goldberg. Special thanks to Lois Makina at NEWMOA for typing the newsletter. Terri Goldberg managed production of the newsletter.

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