



NORTHEAST STATES POLLUTION PREVENTION NEWS

THE NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION
(NEWMOA)

Vol. 3 No. 1 85 Merrimac Street, Boston, MA 02114, (617) 367-8558 Winter 1993

NORTHEAST STATES POLLUTION PREVENTION ROUNDTABLE

Newsletter

The NE Roundtable started publishing this newsletter a little over one year ago to help enhance the exchange of information on state and EPA PP activities in the Northeast. The newsletter content and mailing list have grown over the course of this year. We would like to hear comments and suggestions from our readers on the format and content of the newsletter so that we can make improvements in the coming year. Please call the NEWMOA office with your suggestions.

Reports

The Northeast States Pollution Prevention Roundtable (NE Roundtable) has written a working paper on "Measuring State Pollution Prevention Program Effectiveness." The paper reviews the various PP activities in the northeast states and how the states evaluate them. The paper also summarizes key issues facing the state pollution prevention programs and describes several ideas on how EPA and others should approach measuring state program effectiveness. The paper is available free by calling the NEWMOA office.

NEWMOA has published its first annual report on its pollution prevention, solid waste, hazardous waste and waste site cleanup activities

in 1991-1992. Contact the NEWMOA office for a free copy of the report.

NEWMOA and the northeast states have been collaborating on publishing "A Practical Guide to Pollution Prevention in the Northeast." The purpose of the guide is to help businesses develop a pollution prevention program that makes sense both in terms of environmental protection and corporate competitiveness. This Guide is adapted from the Massachusetts Office of Technical Assistance Manual, "A Practical Guide to Toxics Use Reduction." The Guide was prepared as part of the Northeast Capacity Assurance Project with EPA funding provided to the Tufts University Center for Environmental Management. ERM-New England prepared the Guide. For copies of the Guide, contact the NEWMOA office.

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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.

Pollution Prevention Clearinghouse

The NE Roundtable has formed a Clearinghouse Network Committee to help coordinate sharing PP information in the state, EPA and NEWMOA PP clearinghouses. NEWMOA and each state in the northeast has developed a clearinghouse of technical documents, regulatory and policy documents, books and program materials. The Clearinghouse Network Committee has been meeting over the past year to discuss methods of sharing the states' clearinghouse information across the region. We plan to develop a database that combines a listing of the publications in each state clearinghouse. A first version of the database should be available late in 1993.

We think that the regional database will help all of the states and NEWMOA become more effective in communicating information that industry and state agency staff need to implement PP. However, each state currently operates a clearinghouse and is eager to help you address the issues you are facing. If you have a technical or regulatory question about pollution prevention, please contact NEWMOA or your state technical assistance program. We have extensive resources to assist you in finding the answers you are looking for.

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

CONNECTICUT

CONNECTICUT DEP

Management Training

The Connecticut Department of Environmental Protection (Department) held a half-day pollution prevention seminar for managers and supervisory staff on November 12, 1992. In addition to discussing on-going pollution prevention initiatives, Department policy and multi-media coordination were stressed. Seminar handouts included the Department policy statement, Department fact sheets, and EPA materials. Approximately 50 senior staff members attended this seminar.

EPA Grant Proposals

In response to EPA's willingness to consider flexibility in state grant programs, the Department submitted pollution prevention projects that could be incorporated into existing programs if EPA allows disinvestment in existing grant requirements. Project proposals include: 1) an air, water, and waste emission reduction effort based on Toxics Release Inventory data, 2)

pesticide pollution prevention initiative, and 3) an effort to promote electric utility conservation.

New Staff Hired

The Department has hired a new staff person to work on pollution prevention outreach to small businesses and to coordinate Department pollution prevention efforts. The new staff member, Mary Sherwin, can be contacted at (203) 566-5217.

TRI Emission Reduction Effort

The Department is compiling an information packet to be sent to the largest TRI emitters. An effort will be made to promote pollution prevention as the means to reduce TRI emissions. For specific information on this project, contact Bet Flores at (203) 566-5369.

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

CONN TAP

Training

On October 28, 1992 ConnTAP cosponsored the 7th Annual Pollution Prevention in the Metal Finishing and Manufacturing Industries Conference. The conference highlighted new technologies and management strategies to prevent pollution. The event also included a technical panel, case studies, discussion groups, a facility tour and vendor displays. Approximately 250 people attended.

On November 19, 1992 ConnTAP sponsored a Pollution Prevention Financial Analysis training session. Fifteen attendees from ConnTap, the Connecticut Department of Environmental Protection (DEP), Connecticut Development Authority (CDA), and United Technologies benefitted from the training. Marlene Wittman from the Massachusetts Office of Technical Assistance served as the session trainer.

Matching Challenge Grants

A total of ninety-seven 1993 Matching Challenge Grant applications were distributed. The Matching Challenge Grant review panel met on November 24th to review and rank the applications. To date, two grants have been awarded:

- ConnTAP awarded a \$7,500 Matching Challenge Grant to Dataproducts of New England. The company will use grant funds, and its own fund, to replace its present rosin flux/solvent cleaning process (for manufacturing circuit card assemblies) with a water soluble flux/aqueous cleaning process. The company hopes to reduce its use of CFC-113 (Freon) by 20,000 pounds per year.
- ConnTAP also awarded a \$7,500 Matching Challenge Grant to Keeney Manufacturing. Keeney will develop a treatment process for reusing its spent alkali cleaning solutions. An effective treatment process would reduce the company's hazardous waste generation by approximately 36,000 gallons per year.

Ozone Layer Protection Conference and Exposition

A ConnTAP grant application to EPA Region I was approved in late September. ConnTAP received a \$13,000 grant to help fund a two-day Ozone Layer Protection Conference and Exposition. The first day will feature presentations addressing non-ozone layer depleting solvents. The second day (exposition) will feature practical demonstrations of non-ozone layer depleting solvents. The exposition will be similar to the Massachusetts Solvent Bazaar. The event is tentatively scheduled for September 1993.

Personnel

On October 14, 1992 Lauren Davis Shea joined the ConnTAP staff. Lauren filled the newly created part-time position of Communications Specialist. Lauren's responsibilities include coordinating the publishing of the ConnTAP Quarterly newsletter,

preparing press releases, articles, presentations and handouts. She will also assist in the preparation of the 1992 Hazardous Waste Generation and Management Status Report.

WRITE Grant

A fourth Connecticut WRITE project has been selected. Automatic Plating of Bridgeport will evaluate a process utilizing split solution, and close-loop the recovered water back to rinse.

The fifth and final WRITE project will occur at Quality Rolling and Deburring Co. in Thomaston. A consultant will evaluate an innovative application of vacuum distillation for chromium recovery and reuse.

Clean Air Act Amendments

ConnTAP submitted a proposal to the Connecticut Department of Environmental Protection. The proposal detailed how ConnTAP could assist in the implementation of the Small Business Assistance Program as required in the State Implementation Plan of the Clean Air Act Amendments.

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

MAINE

MAINE DEP

Maine DEP has hired Ron Dyer as the new PP Director for the state program. Internal training and communication with DEP staff is a priority for Ron in the next few months, along with building the PP technical staff at DEP. DEP's Ann Pistell, in cooperation with the state's Advisory Committee, has completed guidelines for use with the Toxic Use, Release and Hazardous Waste Reduction Program. Ann, Michael King and the Advisory Committee are finalizing the reporting guidance at this time. A chemical engineer has been hired by DEP to provide technical assistance to businesses for PP planning. The Department (DEP) Senior

Management Team has identified PP as the top priority for 1993.

For more information contact: Ron Dyer, ME DEP, (207) 287-2811

UNIVERSITY OF MAINE

New Courses

Two new courses are being presented at the University of Maine Spring semester 1993. One is an undergraduate Honors course, Pollution Prevention - Changing Ourselves and Changing Society. Five students are studying pollution prevention and how it can be used at societal, business and individual levels. They will be developing individual pollution prevention projects. The second course, Issues in Environmental Pollution, is more broad than the Honors' course, but emphasizes EPA's Reducing Risk report and pollution prevention.

Conferences

A one-day conference "Pollution Prevention in the Home, Workplace, and Community" will be held on May 27, 1993 from 8:30am - 3:30pm at the Samoset Resort, Rockland, Maine. The conference will stress the connection between pollution prevention and environmental and individual health. Educators, the business community, and government representatives will come together to learn what is being done, and what can be done to promote pollution prevention in the home, schools, and the community at large. Co-sponsors, in addition to the University of Maine include: the Maine Waste Management Agency, Maine DEP, and the Cherwonki Foundation.

Educational Materials

A poster and brochure on reducing hazardous waste from your vehicle is being produced. The project aims at increasing awareness among consumers and businesses about how oil, refrigerants, solvents and anti-freeze can be hazardous and where additional information can be obtained. While the poster is designed for display in businesses, the brochure is

designed for distribution through auto supply retailers. For more information contact Nick Houtman at 207-581-1491.

Two easy-to-read brochures are being developed to address toxics use reduction in the home and workplace:

- Protect Yourself and Your Child: Hazardous Products
- Hazardous Products - You Work With Them Every Day.

For more information contact: Betty Ingraham, University of Maine, (207) 581-2281.

MASSACHUSETTS

MASSACHUSETTS DEP

Toxics Use Reduction Planning

In Massachusetts, toxics use reduction plans must be certified by the "Toxics Use Reduction Planners" (TURPs) who themselves have been certified by the Department. To become certified, TURPs must either take the Toxics Use Reduction Planners course developed by the Toxics Use Reduction Institute, and pass an exam offered by DEP, or demonstrate that they have two years of experience in "toxics use reduction activities". Draft Planner Certification Regulations will be available for public comment in early March, following public hearings in February. The Department will begin accepting and reviewing applications once the regulations have been promulgated. The first examination will be held at the end of March.

Toxics Use Reduction Reporting Data

The data system has been implemented, and DEP has developed some standard reports that rank chemicals, facilities, or towns by total chemical use, "by-product" (waste prior to treatment), amount shipped in product, and emissions. Pending final review of the data and some minor system corrections, DEP should be able to begin distributing summary reports and an extract of all of the 1990 data within the next

month. Data entry on the 1991 data should be completed in March.

For More Information Contact: Suzi Peck, MA DEP, (617) 292-5870.

MASSACHUSETTS OTA

OTA has made on-site visits to over 200 companies. All 30 employees are fully occupied with request for technical assistance in chemical use reduction and environmental compliance. OTA's outreach program is concentrating, in conjunction with the Toxics Use Reduction Institute at U-Mass, Lowell, on an extensive program to assist companies engaged in TUR planning.

OTA has conducted the following recent public activities:

Workshops

"The TURA Workshop", February 10, an overview of the Massachusetts Toxics Use Reduction Act, including information on the law, TUR in permitting and compliance, and Toxics Use Reduction plans.

"TUR in Coatings", April 14, case study presentations on TUR applications for coatings.

On February 11, OTA will be coordinating 10 downlinking sites to present a teleconference on "Water Based Alternatives to Solvent Cleaning". Live from Cuyahoga Community College, the teleconference will run from 1:30 - 4:30pm.

OTA cosponsored two workshops with EPA Region I, "Pollution Prevention for the Coated Products Industry" and "How to Clean Green - Drycleaning and the Environment". Currently, proceedings are only available for the coatings workshop and can be obtained by contacting EPA. In addition, OTA is offering the coatings conference on video. To request video copies, send a blank tape to EOEA/OTA, 100 Cambridge Street, Room 1904, Boston, MA 02202.

In the Western Region, OTA sponsored two workshops, TUR in Metalworking and Lubrication, TUR in Plating Industries. In addition, the team made presentations to the American Institute of Plant Engineers as well as to students at the University of Massachusetts at Amherst.

OTA is planning several workshops in conjunction with the Massachusetts Water Resource Authority (MWRA). These include TUR in hospitals, and chemical use reduction in cooling towers and boilers. No dates have been set for these workshops.

Miscellaneous

OTA began work on a special project with the City of Boston involving urban integrated pest management (IPM). A task force including government agencies, academia, private citizens groups, and the pest control industry met to discuss a pilot project to evaluate IPM in selected schools in the City of Boston. The pilot will to begin sometime this spring.

Grant Projects

OTA's Merrimac River project is in full swing. Project activities included participation on subcommittees (Water Quality Subcommittee and Merrimac River Conference Planning Committee) and the establishment of the Merrimac Business Environmental Network (MBEN). MBEN now has twenty members representing a wide range of business sectors in the Merrimac Valley. MBEN met twice last fall and the next meeting is scheduled for January 27.

The Merrimac Project Coordinator has begun collecting data on water quality in the Merrimac River. This information will be used in conjunction with NPDES information to locate "hot spots" in the river and identify their associated industrial dischargers. In addition, the coordinator continues to meet with the MA Water Resources Planning Task Force to discuss ways OTA can provide water conservation assistance to industries. Call Lori Thayer at OTA for more information.

Under the Critical Parameters grant, the Worcester recycling center has opened. The center accepts waste oil, waste anti-freeze, and waste photographic solution. Pollution prevention flyers and booklets are distributed to residents that bring waste for disposal. The center is open one Saturday a month for residents or Worcester and Auburn.

For more information contact: Paul Richard, MA OTA, (617) 727-3260.

MA TURI

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

Research

Under the direction of the research division, TURI established an "Industry Matching Grants Program". Grants ranging from \$5,000 to \$25,000 were awarded to six Massachusetts companies for short-term research in toxic use reduction technologies. In fiscal year 1993, TURI awarded grants totaling \$90,000. A request for proposal for fiscal year 1994 awards will be distributed in February.

Projects funded include: replacing lubricants for metalforming with environmentally-safe alternatives; developing alternatives to arsine in gallium arsenide; and developing supercritical fluids as a replacement for ozone depleting chemicals. In total, TURI received nine proposals in response to a Request for Proposal, which was sent to Massachusetts industries in June of this year.

TURI also awarded research dollars to seven University of Massachusetts Lowell-based projects, through its "Research Fellow Program". These projects aim to incorporate TUR into the design phase of new material or product development. Projects this year include: developing non-volatile precursors to ozone depleting chemicals in fire extinguishers and evaluating the use of supercritical fluids as

substitutes for cleaning solvents. This is TURI's second year in sponsoring the "Research Fellows Program".

The Institute is currently establishing a Surface Cleaning Performance Testing Laboratory that will concentrate on cleaning methods and chemistries. The laboratory will assist companies in evaluating the effectiveness of different cleaning chemistries and equipment on a variety of substrate and soils.

The Institute completed, and delivered the Further Chemical Restriction Policies Report on schedule to the office of the Secretary of Environmental Affairs. The law required a delivery date of January 1, 1993 for the report.

Education

Education and training activities have focused on a number of varied projects. TURI 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. Stahal, Director of the Product-Life Institute in Geneva, Switzerland, and Braden R. Allenby; who is currently on fellowship at the National Academy of Engineering. The agenda also included a panel discussion with Massachusetts industry representatives, a small panel discussion with Massachusetts industry representatives and small group sessions on a variety of TUR issues.

Beginning in September, TURI embarked on its third round of the Toxic Use Reduction Planners (TURP) Course. The course was offered at Worcester Polytechnic Institute, Bridgewater State College, and the University of Massachusetts at Lowell. Approximately eighty individuals enrolled in the fall sessions. Over two hundred individuals have attended the course since its introduction in March 1991. The fourth round of the course is scheduled to begin in February 1993, at the Lowell and Amherst campuses of the University of Massachusetts and Worcester Polytechnic Institute.

The Education and Training staff is also working with the Massachusetts Department of Environmental Protection (DEP) on the design and development of Waste Prevention Facility-Wide Inspections to Reduce Sources of Toxics (FIRST). The training was developed for all inspectors in the Department's Bureau of Waste Prevention. The outcome of the project will be a comprehensive DEP Inspector's Reference Manual and course for Levels I and II inspectors.

TURI staff also presented two workshops for teachers who participated in the National Science Foundation Summer Training Program, that was hosted by the Tsongas Industrial History Center in Lowell, Massachusetts.

Technical Support

The Technical Support staff has established a new Technology Transfer Center to provide technical information on TUR and pollution prevention to TURI's various audiences. The Center provides an industry-specific subscription service directly to individuals in a firm who are responsible for implementing TUR projects. The subscription service is being piloted with several local chapters of the American Association of Electroplaters and Surface Finishers (AESF).

The Institute is working with the Office of Technical Assistance and DEP to develop a Plan Enhancement Program (PEP). This program is designed to assist industrial filers in developing their toxics use reduction plans that are due July 1994.

The Institute participated in a recent conference on clean-room cleaning sponsored by Digital Equipment Corp. The conference, known colloquially as "Mr. Clean", draws representatives from leading manufacturing firms across the country that are interested in emerging technologies in cleaning and so-called "clean rooms" in the semiconductor industry.

Printers and dry cleaners have been targeted for pollution prevention activity in two projects in which the Institute is collaborating

with the US Environmental Protection Agency (EPA) and other organizations.

The Institute planned, organized and presented a three-day National Roundtable on State Pollution Prevention Programs in October. This conference was attended by 220 participants from around the country. The conference involved presenters from industry, academia, the EPA, the Office of Technical Assistance and DEP.

General Information

In January 93, the Institute issued the Fall/Winter issue of TURA Reports. TURA Reports is the quarterly newsletter of the Massachusetts Toxics Use Reduction Program. To obtain the current issue, please call TURI.

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

NEW HAMPSHIRE

NEW HAMPSHIRE DES

Outreach

The NHPPP, along with the NH Business & Industry Association and the University of New Hampshire finalized the planning for the jointly-sponsored Pollution Prevention conference scheduled for March 25, in Durham, NH. At the present time, the speaker list and topics have been established, and a program has been completed for mailing.

The NHPPP is planning to provide several additional activities in the spring and summer. Two workshops will be planned based on the results of the recently completed "NEWMOA Project" for targeting the major CAP shortfall waste generators and waste producing processes. Working with EPA Region I and NHPPP will provide a "Solvents Bazaar" in the late summer following the Massachusetts format from last year.

The NHPPP continued its PP presentations at several functions during the fall. Presentations were made at the Small Business Associations' SCORE program, as well as at several civic and business organizations.

On-site Assistance

During the three-month period, NHPPP staff and its retired professionals conducted seven on-site waste minimization assessments. Companies assisted included a printed circuit board manufacturer, several machining and metal working facilities, an armed forces base, and a printing firm. A site visit to a tool and small arms manufacturer was performed for the first time by NHPPP engineers on a "solo" basis without any DES personnel.

Training

The NHPPP conducted several training sessions for the pollution prevention program staff. In November, an in-house training session was conducted on machining and metal working pollution prevention. In addition, the NHPPP and NH BIA WasteCap program held a joint training session for its assistance personnel titled "Creative Problem Solving for Waste Minimization". Additional training in the area of Full Cost Accounting is planned for February, with the assistance of NEWMOA.

Multi-Media Activities

Two multi-media Task Force meetings were held during this period. Through a questionnaire, the NHPPP attempted to correlate common activities of the various media programs. When completed, a multi-media "matrix" will be established and used to combine program activities. Due to a somewhat surprising enthusiastic interest by the different media programs, Task Force meetings are now scheduled on a monthly, rather than bi-monthly basis.

In-House Library

The NHPPP received and installed the updated version of the "InMagic" database.

There are currently 394 entries in the present database, and the filling of a vacant assistant's position in the NHPPP should allow resumption of the compilation of information into the database.

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

NEW YORK

NEW YORK DEC

John Iannotti, former Director of the Bureau of Pollution Prevention in the Division of Hazardous Substances Regulation, has been named head of the Department's new Pollution Prevention Unit. Mr. Iannotti will report to the Deputy Commissioner for Environmental Quality, Edward O. Sullivan. The Unit was established as part of the Department's new pollution prevention initiative and is responsible for managing, coordination, planning, monitoring and communication regarding multi-media pollution prevention activities among the Environmental Quality regulatory programs as well as the Office of General Counsel and other support programs. Major multi-media pollution prevention activities planned for the Unit include prioritization and planning of inspection, permitting, and enforcement at high-priority facilities, technical support to major enforcement cases, information management, training, conferences, technical guidance, and outreach.

The Unit has established its headquarters in the Central Office in Albany with a staff of 17, including engineers, environmental quality specialists, environmental analysts, and research scientists. The staff has extensive background in a variety of Department program areas covering air, water, hazardous substances, remediation, solid waste, regulatory affairs, and information management. Initial efforts are being directed toward finalization of Part 378 (Chemical Reduction Plans), the annual Pollution Prevention Conference, development of a risk-based criterion for use in selection of high-priority facilities, and on-going technical support for the current major enforcement cases. As part of the same initiative, multi-media pollution

prevention coordinators have been named in each of the Department's nine regional offices.

For more information contact: Mary Werner, NY DEC, (518) 457-1415.

ERIE COUNTY PP PROGRAM

Erie County has been awarded an EPA grant to conduct pollution prevention training for Municipal Sewage Treatment Inspectors. Their experience with industrial processes and concern for the wastestreams generated at industrial facilities creates the opportunity for promoting pollution prevention alternatives. Traditionally, pretreatment programs focus on treatment technologies to achieve regulatory limits. The challenge is to redirect programs to encourage dischargers to prevent discharge through process and practices alterations.

ECOPP organized a pollution prevention conference that coincided with the Lower Great Lakes Waste Recycling Exposition on November 18 - 19, 1992. Sessions focused on pollution prevention techniques and regulations and were well attended by business managers.

Vehicle maintenance facilities are the County's largest customer. ECOPP staff continue to discover new pollution prevention alternatives for the vehicle maintenance industry. These alternatives include various solvent substitutes; recycling processes for antifreeze and paint waste; and degreasing equipment. The financial status of this industry group has encouraged us to focus on economically feasible recommendations like practice changes, maintenance procedures and more efficient use of contracted services.

A Comprehensive Pollution Prevention Planning concept will be developed through a "Bilateral Initiative" to promote pollution prevention strategies throughout the Great Lakes Basin. In addition to policies to encourage industry to adopt new strategies through this program, ECOPP will be fortifying internal Erie County environmental policies and assisting local municipalities with policy development. As part of the bilateral effort, Environment Canada has been gathering information on existing local government pollution prevention policies. This information will be used to form a template to

assist the local government in identifying pollution prevention opportunities.

ECOPP has contracted a consultant to conduct an evaluation of the Erie County Industrial Pollution Prevention Program. The evaluation will involve surveying the companies that we visited during this effort to determine the effectiveness of our services, the extent to which providing recommendations were implemented and the reasons or barriers preventing implementation. The consultant will also consider ECOPP training approaches and the final policy recommendation.

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

SUFFOLK COUNTY WATER AUTHORITY

Over the past few months, the Suffolk County Water Authority's Source Reduction Program has been involved in the following activities:

- Responded to a continually increasing number of requests received from other state programs and the Center of Applied Research in Norway, and local industries for information on technical assistance available through the SCWA SRP.
- Coordinating a workshop on Waste Minimization Opportunities for Metal Paint Operations to be offered in summer or fall 1993.
- Responded to requests from local residents for information on water conservation devices.
- Created a database for the vehicle maintenance industry located in Suffolk County to identify specific industries within this general industry category by SIC code that are located within the SCWA's service area. The information will be incorporated into the SCWA's GIS.
- Submitted a pre-application for an EPA Environmental Education Grant. The proposed program entitled "Groundwater Education and Community Outreach" would develop an

educational program focused on pollution prevention and the protection of groundwater resources in a sole source aquifer area.

ITAC

The New York City Industrial Technology Assistance Corp. is seeking a manufacturing professional for the position of Pollution Prevention Engineer. The successful candidate will provide technical and regulatory assistance to New York City manufacturers with the objective of preventing industrial pollution at the source while improving the firm's competitive position. Our clients include metal and wood finishers, printers, and small chemical manufacturers who employ processes such as (spray) painting, degreasing, electroplating, and printing.

This self motivated individual should enjoy reaching out to, and assisting, small New York city manufacturers. Tasks include identifying company needs, presenting solutions to client firm's upper management, and marshaling required resources.

The ideal candidate will possess, in order of priority:

- Broad range of industrial experience including production and management. An engineering degree is preferred.
- Strong communication skills and an ability to organize and guide groups with a common goal.
- Experience dealing with consultants and vendors. A Rolodex with relevant contacts is a big plus.
- Familiarity with current manufacturing methods and pollution prevention techniques.
- Familiarity with environmental regulations.

Applications with resume should be sent to:

Executive Director
ITAC, 253 Broadway, Room 302
New York, NY 10007

Equal Opportunity Employer

- Submitted a grant application to the NYS Department of Labor for Occupational Safety and Health Training and Educational Programs for water utility workers and vehicle maintenance workers. The program would provide health and safety training and education in industry specific areas of concern and need.

For more information contact: Judy Jakobsen, Source Reduction Specialist (516) 563-0306.

RHODE ISLAND

RHODE ISLAND DEM

The Rhode Island Department of Environmental Management's Pollution Prevention Section (PPS) has been bustling with activity. In addition to the continuing on-site technical assistance program, the office has recently begun to develop case studies of successful pollution prevention activities related to the PPS in Rhode Island. Since the creation of PPS, over 90 assessments have been performed and approximately 60 reports have been produced. (The rest are on-going.)

The case studies are an attempt to quantify the effectiveness of the PPS program, as well as provide industry with a means of exploring pollution prevention options which may be related to their facility. These case studies include the amount of waste reduced in specific operations, the cost, information involved with modifying the operation or buying new equipment, the payback period if one exists, and the impact that the overall pollution prevention activity has had on the facility. Examples of such case studies include one company's switch to a single soap and installation of a 500 GPD ultrafiltration system for vibratory fluid recycle in a mass finishing operation. Another company installed a 3,000 GPD ion exchange system to close-loop a photo finishing operation by removing silver from rinse water. (The system was built by the company on-site, with help from PPS). Our office estimates that 34-40 case studies will be developed and will become available by the end of February.

Another project involves the development of in-depth "Process Profiles". These reports are similar to case studies, but they provide more comprehensive information on pollution prevention and recycling technologies as applied to specific processes such as vibratory finishing, nickel plating, aqueous cleaning, etc. The process profiles are studies of pollution prevention projects at particular facilities from beginning to end. They provide flow diagrams of the system before and after pollution prevention or recycling technologies are implemented. Also, any difficulties or pitfalls that were encountered are included. The first of these process profiles will be available by the end of January, and it is anticipated that at least six more will be produced at one per month thereafter.

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

VERMONT

VERMONT DEC

Vermont's Toxics Use Reduction and Hazardous Waste Reduction Planning law has taken effect with plans and summaries due January 1, 1993. Plans from small quantity generators will be due July 1, 1993.

The Pollution Prevention Division of the Vermont Agency of Natural Resources is providing a number of planning assistance activities. The Division has initiated industry-specific focus group meetings with Vermont business and industry for the purposes of plan assistance and the identification of technically and economically feasible pollution prevention options. The following industries are involved: electronics, furniture finishing and woodproducts, printing and utilities, automotive and vehicle service, machine tool and metal finishing/fabrication.

Through a series of meetings with these and other industry types over the next several months, the Division hopes to work closely with Vermont business and industry and trade

associations to encourage open dialogue and sharing of information on pollution prevention and plan development, leading to a high level of compliance with the requirements. The Pollution Prevention Division is encouraging all businesses to participate in this opportunity to work toward developing the elements of an approvable plan.

On-site assistance is available to Vermont business and industry through the Retired Engineers and Professionals (REAP) Program. REAP assessment teams have worked with more than a dozen companies in identifying pollution prevention opportunities. The service is free and confidential and further information can be obtained by calling Vermont WasteCap at the Associated Industries of Vermont offices in Montpelier at 800-439-3441.

The Pollution Prevention Division's information clearinghouse continues to be developed, with over 750 documents available to assist in pollution prevention planning. Literature searches and documents may be requested by calling the Pollution Prevention Hotline at 800-974-9559.

The Pollution Prevention Task Force within the Agency of Natural Resources is examining ways to promote multi-media coordination and development of a pollution prevention ethic within the Agency. The Task Force, which meets every other month, has formed subcommittees that meet when the Task Force does not meet. The subcommittees do much of the actual work of developing and implementing initiatives, while Task Force meetings provide an opportunity to exchange information and to further refine ideas submitted by the subcommittees.

The Multi-media inspection, permitting, and coordination subcommittee has developed a Department-level multi-media survey and a multi-media inspection checklist. Both of these are currently in draft stages. The subcommittee hopes to have both documents in final form by mid-February.

The Environmental Leadership subcommittee has targeted three initiatives for

the first three months of 1993. For January, the subcommittee has organized a meeting of representatives from the Agency of Natural Resources, the Public Services Department, and the Division of State Buildings in order to promote the upgrading of existing lighting systems in state buildings to more energy-efficient lighting systems, to discuss what has already been accomplished by the State, and to better understand the merits and drawbacks of becoming a State partner in the EPA Green Lights program. The Pollution Prevention Task Force is urging the Governor to commit to the state as a Green Lights partner in order to make it easier to promote energy-efficient lighting in the private sector.

The Environmental Leadership subcommittee is also preparing a ridesharing awareness week for sometime in March and will soon be launching a promotional/information and education campaign within the Agency for the use of re-refined motor oil and retreaded tires.

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

EPA REGION I

Transition

- The Region I Pollution Prevention Program (as well as the rest of the Region I staff) bid a fond goodbye to Regional Administrator Julie Belaga, who decided to leave EPA on January 15. Throughout her tenure at Region I, Julie has been a staunch supporter of pollution prevention. She reports having no firm plans as yet for her career future, but plans to take a couple of months off to relax at home in Connecticut and visit family in California. Deputy Regional Administrator Paul Keough will be acting RA until the new RA is designated and confirmed.
- Incoming EPA Administrator Carol Browner stated in her Senate confirmation hearing that her top priorities will be building a more cooperative relationship with business and industry and helping them accomplish pollution prevention. This and other transition news

indicates that pollution prevention should fare well in the new administration.

Strategic Planning

- Region I Divisions finalized their Pollution Prevention Workplans for FY93 on October 1 and distributed them in compiled form to the state environmental commissioners. Divisions are now implementing the activities in these workplans. All in all, the workplans contain over 100 activities involving 44 FTEs (work-years).
- The next stage for pollution prevention in strategic planning is summed up in the short-term objective for FY93: "By September 30, 1993, to have approved division and office pollution prevention workplans for FY94 with a target of 15 percent FTEs and approved pollution prevention elements incorporated into key continuing state grants."

Last Fall, Region I sent a memo to the New England state commissioners requesting proposals for projects and activities to incorporate into ongoing basic grants. Region I received specific proposals from three states, and three Region I Divisions have been assigned primary responsibility for coordinating negotiations between the states and EPA grant program administrators. Once the states and EPA agree upon activities to incorporate and equivalent trade-offs, these will be reflected in grant agreements and implemented in FY94. Region I expects that if this first experimental year is successful, more state agencies and programs will be interested in participating, and EPA will be able to handle a higher volume of negotiations.

In January, Region I will train its second contingent of pollution prevention workplan writers, who will then set about writing Division/Office Pollution Prevention Workplans for FY94.

Inspector Role

- On December 7, representatives of the New England states met with EPA concerning 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. The spirited and informative discussion at that meeting highlighted the need to clarify a number of questions and implications raised in the White Paper. Region I programs are currently reviewing a subsequent draft of the White Paper; once this set of internal comments is addressed, the White Paper will be sent again to the states for comment.

- Region I is designing a training course for EPA inspectors that will clarify policies and procedures not covered fully in the basic inspector training course: 1) the role of the inspector in providing information on pollution prevention to facilities; 2) multimedia inspections, checklists, referrals and databases; and 3) litigation issues. We aim to hold four training sessions in March and April.
- To accompany our inspector training, Region I has drafted a brochure on PP for inspectors to distribute at facilities. The brochure contains information on the meaning of PP, the 33/50 and Green Lights programs, PIES, ORD/Cincinnati guides, the Northeast States Pollution Prevention Roundtable, and New England state technical assistance programs (regulatory and non-). Staff of the state programs listed in the brochure will be asked for their comments on the draft.

New England Pollution Prevention Council

- EPA Region I and the New England Pollution Prevention Council (NEPPC) are planning a second Pollution Prevention Transportation Forum for Spring 1993. The current design calls for a much smaller meeting or series of meetings aimed at raising awareness and interest among important New England businesses on the necessity of advocating for sound transportation planning as a means of meeting Clean Air Act mandates.
- Paul Keough will take Julie Belaga's place as co-chair of the NEPPC until a new RA is named. NEPPC member notes: Peter Meade, new president of New England Council, replaced outgoing president Nick Koskores as NEPPC co-chair; John Clements left the NEPPC to take a

new position as director of research and development for the US DOT Federal Highway Administration; Chuck Clarke, Secretary of Vermont's Agency of Natural Resources, has replaced former secretary Jan Eastman on the NEPPC.

Grants

- It appears that the Pollution Prevention Incentives for States (PPIS) grants program, heretofore administered by EPA Headquarters, will be delegated to the Regions shortly. Under this structure, Headquarters would give notice in the Federal Register of the availability of these grants, and each Region would develop its own awards process and specific guidance. Region I pollution prevention staff will keep the New England states informed of how this process develops and how states can apply for grants.

Conferences

- EPA and the Engineering Foundation will sponsor a five-day conference on the role of the Clean Air Act in promoting pollution prevention, March 28 - April 2 in Palm Coast, Florida. This will be a working conference of 80-100 invited participants from all sectors (state and federal government, business and industry, academia, and public interest groups). Mark Mahoney has been helping design the conference; contact him for more information.

Research

- A student from Harvard's J.F. Kennedy School of Government is working with the Region I Pollution Prevention and Mobile Sources programs on a "policy analysis exercise" topic provisionally entitled "Implementing Transportation Demand Management Measures in Boston: A Comparison of Political and Institutional Feasibility." The policy paper, which will inform the work of the New England Pollution Prevention Council, should be available in April.

For more information contact: Mark Mahoney (617) 565-1155 or Abby Swaine, EPA Region 1, (617) 565-4523.

EPA REGION II

Grants

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

The New York City Department of Environmental Protection was awarded \$225,000 to develop a household pollution prevention pilot project in the Greenpoint/Williamsburg area in Brooklyn. This project will evaluate the effect of such a comprehensive program on reducing household toxics and floatables in the waste stream.

Two grants were awarded in Region II for pollution prevention through education. One was awarded to the YMCA to incorporate an energy conservation program into New York City classroom curricula. The other was awarded to the Sciencenter in Ithaca, New York for development of an interactive computer program that will educate consumers about the role they play in natural resource consumption.

The New York State Department of Environmental Conservation received federal assistance under Section 104(b)3 of the Clean Water Act for the continuation of a pollution prevention incentive program in the areas of stormwater, CSO and floatables.

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.

This past spring, Hampshire Research Associates was hired by the Air and Waste Management Division (AWMD) to present a pollution prevention training for federal and state permit writers involved in New Jersey's pre-pilot facility-wide permitting project. On October 29, 1992 Hampshire presented the same training to a broader EPA audience.

Lectures

Joanna Underwood, President of Inform Inc. spoke to EPA Region II staff on the morning of October 29. Ms. Underwood has personally, and on behalf of INFORM, received three awards from EPA for her work in pollution prevention. This lecture marked the one-year anniversary of Region II's pollution prevention lecture series, which serves as an informal method for providing Region II personnel with information on a broad range of programs and techniques used for preventing pollution.

Energy

The EPA Region II Green Lights Corporate Forum was held on the morning of October 16, at the American Express headquarters in New York's World Financial Center. Region II's Administrator invited 180 companies in New York and New Jersey to attend. The forum, coordinated by AWMD and the Office of Policy and Management (OPM), recognized the accomplishments of partner companies, as well as kicked off recruiting efforts for FY-93. American Express and Warner Lambert, two charter members, delivered positive messages about their experiences implementing Green Lights, and the Regional Administrator welcomed Orange and Rockland County Utilities, and Rhone-Poulenc Chemical companies into the Program.

Region II employees recently received notice of our participation in the Employee Trip Reduction Program, required under the Clean Air Act Amendments of 1990.

Regulations

EPA has issued Storm Water Permits for

Indian Lands in New York and for Puerto Rico. All covered facilities must have a pollution prevention plan to reduce pollutants by changing materials, physical practices and processes.

AWMD commented on four Hazardous Waste Reduction Plans for New York facilities in September 1992. Since February 1992, two have been approved by EPA, and eight have been jointly approved by EPA and New York State Department of Environmental Conservation. We are currently expecting revised plans from five facilities, as well as their Waste Minimization Annual Reports.

On October 5 - 6, a staff from Region II's Environmental Services Division (ESD) represented Region II at the Graph Expo in New York City. The staff will provide guidance on TRI Section 313 reporting of releases for the printing industry, pollution prevention documents targeting the printing industry, and other relevant pollution prevention information.

Waste Reduction

AWMD initiated a waste minimization project in cooperation with DuPont in Deepwater, New Jersey. The goal is to apply EPA's waste minimization options development methodology and study the effectiveness of such an approach for 15 waste streams in the DuPont facility.

A request from Tulip Corporation to allow a periodic batch discharge of approximately 1/2 pound of lead every 6 weeks to the City of Niagara Falls Waste Water Treatment Plant has been denied pending evaluation of pretreatment/pollution prevention action to reduce lead, one of the 18 toxic chemicals found in the Niagara Falls River at levels in excess of the most stringent criteria.

Since March 1992, the Environmental Services Division has settled several cases that include environmentally beneficial expenditures (EBEs) for waste reduction. A few examples are:

- Readington Farms, Inc. agreed to install a wash water reclamation system that will enable them to reduce the amount of toxic chemicals used on site, and the volume of wastewater discharge into the local POTW.
- The Home Rubber Company will reduce its use of toluene by substituting a pre-approved alternate chemical.
- The Gleason Works agreed to replace lacquer thinner use by the installation of solvent gun cleanup stations and solvent recycling stills. They agreed to replace petroleum naphtha degreaser with an aqueous-based cleanser.

TRAINING BRIEFS

NEWMOA's pollution prevention program has coordinated a number of training programs with EPA and the Northeast states in the past. We are interested in building on this experience and offering similar training programs to the states and others for the coming year. The following is a list of pollution prevention training opportunities from the NE Roundtable:

- Training on Using EPA's Pollution Prevention Information Exchange System (PIES)
- Pollution Prevention Instructor Training
- Financial Analysis of Pollution Prevention Projects
- Agency Manager and Staff Training on Pollution Prevention Concepts and Methods
- Introductory Pollution Prevention Training for State Agency Staff or Industry Representatives

Contact NEWMOA at (617) 367-8558 if you are interested in any of these training programs.

NEWMOA is collaborating with EPA Region I and the New England states to organize PP outreach activities for automotive maintenance and repair facilities in the upcoming year. The project is called the Pit Stops Project and involves development of written materials, a

video tape, and workshops in the states for the target facilities. The states, NEWMOA and EPA have met to discuss the project and are planning to collaborate on it. We are also interested in working with industry, trade groups and other local business associations on the workshops. Contact NEWMOA or Molly Magoon at EPA Region I (617) 565-3220 for more information on the Pit Stops Project.

NEW POLLUTION PREVENTION PUBLICATIONS

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

Solvents -- The Alternatives, Waste Reduction Resource Center for the Southeast, PO Box 27687, 3825 Barrett Drive, Raleigh, NC 27611-7687, Aug. 1992.

Pollution Prevention, by Barbara Wells, National Governors' Association, 444 North Capitol St., Washington, DC 20001-1572, 1992.

Control of VOC Emissions From Ink and Paint Manufacturing Processes, U.S. EPA, Office of Air Quality Planning and Standards, PB92-190230, 1992. Available from NTIS.

Getting at the Source, Strategies for Reducing Municipal Solid Waste, World Wildlife Fund, 1991. Available from Island Press, Box 7, Covelo, CA 05428, (800) 828-1302.

Pollution Prevention Case Studies in Ohio's Lake Erie Basin, Ohio Environmental Protection Agency, Pollution Prevention Section, Division of Hazardous Waste Management, Columbus, OH, (614) 644-3469, Sept. 1992.

Pollution Prevention for the Vehicle Maintenance Industry: A Self Assessment Guide, Hazardous Waste Minimization Program, Wisconsin Dept. of Natural Resources, PO Box 7921 (SW/3), Madison, WI 53707, (608) 267-9523.

DOD's War on Hazardous Waste, Vol. 3: Identifying Specifications That Require the Use of Hazardous Substances, Logistics Management Institute, 92-01019, July 1991. Available from NTIS.

Solvent Substitution for Electronic Products, Mark Benkovich, Allied-Signal Aerospace Company, DE92-003225, January 1992. Available from NTIS.

Pollution Prevention for the Coated Products Industry, Conference Proceedings, U.S. EPA Region 1, October 1992. Available from U.S. EPA Region 1, Air Pesticides and Toxics Management Division, JFK Federal Building, Boston, MA 02203.

Chemical Substitution for 1,1,1-Trichloroethane and Methanol in an Industrial Cleaning Operation, U.S. EPA, PB92-179886, 1992. Available from NTIS.

Evaluation of Five Waste Minimization Technologies at the General Dynamics Pomona Division Plant, U.S. EPA, PB92-125756, 1992. Available from NTIS.

Clean Technology, by Allan Johansson, Lewis Publishers, Ann Arbor, 1992. Available from CRC Press, Inc., 2000 Corporate Blvd., NW, Boca Raton, FL 33431.

Understanding Environmental Accounting and Disclosure, Executive Enterprises Publications Co. Inc., 22 West 21st St., New York, NY 10010-6990, 1992.

The following assessments are available from NTIS (the titles of these documents are "Waste Minimization Assessments for" followed by the citation listed below):

A Manufacturer of Motor Vehicle Exterior Mirrors, by F. William Kirsch and Gwen Looby, PB92-192806, May 1992.

A Manufacturer of Chemicals, by Gwen Looby and Phylissa S. Miller, PB92-203595, May 1992.

A Manufacturer of Commercial Ice Machines and Ice Storage Bins, by F. William Kirsch and Gwen Looby, PB92-196351, May 1992.

A Manufacturer of Aluminum Extrusions, by F. William Kirsch and Gwen Looby, PB92-19237, April 1992.

A Manufacturer Producing Galvanized Steel Parts, by F. William Kirsch and J. Clifford Maginn, PB92-189695, May 1992.

A Manufacturer of Metal Bands, Clamps, Retainers, and Tooling, by F. William Kirsch and Gwen Looby, PB92-188747.

A Manufacturer of Automotive Air Conditioning Condensers and Evaporators, by F. William Kirsch and Gwen Looby, PB92-188739.

A Manufacturer of Metal-Cutting Wheels and Components, by F. William Kirsch and J. Clifford Maginn, PB92-192145

ADDITIONAL UPCOMING EVENTS

● Role of the Clean Air Act in Implementing Pollution Prevention, March 28-April 2, 1993, Palm Coast, FL. Call John Warren, RTI, (919) 541-7308.

● Toxics Release Inventory Data Use Conference, March 29-31, 1993, Chicago, IL. Call Kim Mitchell, Abt Associates, (617) 349-2785.

● First IEEE International Symposium on Electronics and the Environment, May 10 - 12, 1993, Arlington, VA. Call ISEE Conference Registrar, (908) 562-3878.

● Pollution Prevention Conference on Low-and No-Voc Coating Technologies, May 25 - 27, 1993, San Diego, CA. Call Coleen Northeim, RTI, (919) 541-5816.

● The Greening of Durable Products: What's the Best Route? Public vs Private Industry, March 24 - 25, 1993, MIT Cambridge, MA. Call Jennifer Nash, MIT, (617) 253-3586.

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: Anne Gobin, Andrew Vecchio, Ron Dyer, Nick Houtman, Lisa Dufresne, Suzi Peck, Vince Perelli, Mary Werner, Tom Hersey, Judy Jakobsen, Rich Girasole, Gary Gulka, Abby Swaine, Janet Sapadin, Beverly Johnson and Terri Goldberg. Terri Goldberg managed production of the newsletter. Special thanks to Lois Makina for typing the newsletter.

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