



NORTHEAST STATES POLLUTION PREVENTION NEWS

NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION
(NEWMOA)

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NORTHEAST STATES POLLUTION PREVENTION ROUNDTABLE

FINANCIAL ANALYSIS OF P2 PROJECTS

The NE Roundtable is completing a curriculum for conducting workshops on financial analysis of pollution prevention projects called, "Improving Your Competitive Position: Strategic and Financial Assessment of Pollution Prevention Projects." NEWMOA and the Massachusetts Office of Technical Assistance have collaborated on management of this project.

The curriculum is designed to familiarize environmental and operational staff at small and medium size businesses with the tools and procedures for evaluating financial aspects of a P2 project. The material provides a general introduction and focuses on two topics in financial analysis -- cost information and measures of profitability -- and concludes with a discussion of qualitative issues. In addition, the curriculum includes several problem solving and case study exercises.

This curriculum builds upon NEWMOA and MA OTA's previous financial analysis curriculum and training experience. NEWMOA and MA OTA staff have been conducting training on this topic for the past four years.

The instructional package will include an instructors guide in addition to the curriculum. The curriculum is designed to be handed to participants in workshops for their use. The instructor's guide will be designed for use by facilitators of workshops.

The material should be finalized and available this summer. NEWMOA is seeking opportunities to present the workshop material and pilot aspects of the curriculum. Please contact NEWMOA if you are interested in organizing such a workshop.

FINANCING P2 PROJECTS

Under a grant from the U.S. EPA Region 1, NEWMOA is developing an information booklet about sources of financing for P2 capital investments. The difficulty of finding such financing has precluded some small companies from undertaking important initiatives that would enable them to eliminate sources of pollution and often realize significant operating savings.

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The booklet will have two main sections: financing sources and loan/grant application procedures. The financing sources section will provide a description of public and private financing sources that are available to firms in New England, including state loan and matching grant programs, federal loan and matching grant programs, and private banks. The description will cover the types of loans and grants offered by the various sources, typical rates and repayment schedules, funding guidelines and restrictions and contact names and addresses. NEWMOA plans to publish the booklet by the end of this year.

We are currently seeking additional information on loan and grant opportunities for environmental investments on a regional, state or local basis. If you can offer information on these topics, please contact the NEWMOA office.

In addition, NEWMOA is organizing an ad hoc advisory group to review materials and assist with information collection. We are particularly interested in attracting participants with financing expertise or experience in obtaining financing for environmental investments at small and medium size businesses. Please contact the NEWMOA office at the number listed below if you can provide such assistance.

CLEARINGHOUSE

NEWMOA has developed a regional database of technical documents on pollution prevention. The 5,000+ citation database combines databases from five sources: NEWMOA, MA TURI, VT DEC, NH DES, and RI DEM. These databases contain listings of articles, reports, books, fact sheets, case studies and other materials on a wide range of technical aspects of pollution prevention. If you are researching P2 technologies or methods, please contact the NEWMOA office and we can search our database to assist you in answering your questions.

NEWMOA manages a public clearinghouse of P2 information. The clearinghouse contains over 1,500 publications on P2 technologies and methods. If you are in the Boston area and would like to use the clearinghouse, call NEWMOA and make an

appointment. We would welcome the opportunity to assist you.

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

VERMONT

VERMONT DEC

The Pollution Prevention and Education Division is continuing its strategic planning efforts which began in January following a reorganization of the Vermont Department of Environmental Conservation (VT DEC). The Division is developing long range plans in the program areas of environmental leadership and pollution prevention integration, business and technical assistance, information, education and training. These planning activities have consumed many staff hours over the last few

Northeast States Pollution Prevention News

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

We appreciate hearing comments and suggestion on the newsletter from our readers. Write or call NEWMOA at the address on the cover of the newsletter. Please use the form at the back of this issue to request an address change or to add your name to the mailing list. We appreciate your cooperation in ensuring that we have your correct address.

months and have involved all staff, yet the process has been very worthwhile as we work toward completion in early June. The Division has also participated in the reorganization of the environmental regulatory and media programs, which are seeking to achieve a greater multi-media coordination and pollution prevention emphasis. In this process, the Division has invited high level managers from Massachusetts and New Jersey to discuss their multi-media experiences.

The Division is now concentrating on pollution prevention plan review for about 250 facilities and is gearing up for expanded toxics use reduction plan requirements in 1995. We have now passed the due date of the first annual progress report that planning facilities were required to submit. Plan review has focused on metal industries, printers, and automotive and trucking facilities.

Pit Stops activities with automotive service and repair facilities have involved on-site assistance and workshops. The Division is planning a statewide pollution prevention workshop for May 18 to be televised at eight interactive television sites throughout Vermont. Videotapes of this conference will be made available after the event. Four retired engineers have been trained to conduct on-site assistance and assessments at vehicle service and repair facilities that will commence in April.

The Division has been in the process of reorganizing its retired engineers on-site assistance program. At times we have carried over 20 engineers and business professionals. In order to improve efficiencies, the group has been pared down to eight individuals, one or two of which will manage the program and be participants in technical assistance. The initial primary focus of the program will be to work with vehicle service and repair facilities and metals and electronics firms. Assistance will also involve helping facilities with deficient or incomplete plans and providing assistance on plan implementation.

The Division is attempting to reactivate its industry-specific pollution prevention focus group meetings. We will try a slightly different approach this year. Where possible, half-day meetings will be held at or near an industrial facility and involve a plant tour of facility

processes. Martin-Marietta in Burlington has agreed to host our next meeting of metal industries with a plant tour of coolant recovery and management systems and CFC replacement in metal parts cleaning and printed circuit boards.

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

RHODE ISLAND

RHODE ISLAND DEM

The *Providence Journal Bulletin* recently began a weekly section for small business that profiles individuals and companies, their business struggles and triumphs. On Thursday, February 17, 1994, the Journal ran an article profiling J&L Finishing, a Rhode Island company specializing in metal finishing. The article was entitled "Toxics User Found Friends at DEM", and it details how working with the Rhode Island P2 program has helped the company eliminate its wastewater stream while minimizing the generation of sludge. As a result, 12 other Rhode Island companies have requested assistance in technology transfer. Copies of the article are available from DEM.

Rhode Island's Pollution Prevention Program has been asked to help several fish processing plants at the port of Galilee. These facilities have huge BOD loadings as well as a number of aesthetic problems. The program was introduced at a recent town meeting and a workgroup will be developed consisting of RI DEM P2 staff, University of Rhode Island (URI) Chemical and Environmental Engineers, URI Food Science Professors, and URI Marine Affairs Professors.

Rhode Island's Pollution Prevention Program continues to grow, with over 140 companies now assisted. Rough calculations have shown that over 14,000 tons of industrial waste and wastewater have been eliminated since the program began.

Case studies of RI DEM successful P2 projects are available to industry and other state programs. To date, 25 are available with an estimated 20 more in the coming months.

Publications that aid in technology transfer are now available. They include: Pollution Prevention in Mass Finishing Operations, Vibratory Solution Recovery in a Zinc Die-Casting Operation, and Electrofloatation, and Alternative Waste Management Method for the Electroplating Industry. These process specific packages will continue to be developed. Future titles include, Pollution Prevention in Nickel Plating, Pollution Prevention for the Photofinishing Industry, and Pollution Prevention for Oily Wastes.

The next RI Pollution Prevention Conference will be held in October 1994. Plans for the location and technical seminar tracks are underway. The conference will once again be co-sponsored with the Narragansett Bay Commission and other RI and northeast trade associations.

The RI P2 Information Library continues to grow and is now serviced by a laptop computer that will be taken on company assessments so that searches can be made while working with the company representative. The laptop also has fax, modem, and network capabilities so on-site assistance can be accomplished while tapping into EPA databases. For more information contact: Richard Girasole, RI DEM, (401) 277-3434.

NEW YORK

NEW YORK STATE DEC

Training, Education, and Outreach

- The manual entitled "The Environmental Self-Audit for Small Business," which was described in the last issue of the NESPPN, has been printed and widely distributed. For copies of the booklet, contact Ronald Maylath at (518) 457-2010.
- Development of a program for delivery of workshops to small businesses in the regulated community has begun. A survey will be developed to determine what industrial sector(s) most need the technical assistance. This workshop program is being supported by an EPA PPIS grant.

- Training on how to conduct team and reconnaissance multimedia inspections is being developed through a DEC training committee with assistance from EPA. The training will be based upon guidance developed by the Pollution Prevention Unit on multimedia inspections. Approval of a grant proposal to EPA to support full development of the training program is pending. The first phase of training will be conducted during the spring and summer of 1994.

Toxic Chemical Reduction Plans Regulation (Part 378)

Final revisions have been made to New York's proposed regulation that will require facilities that generate hazardous waste and emit, discharge or release toxic chemicals at or above certain thresholds, to reduce such releases to the environment to the extent technically feasible and economically practicable. The regulation will go before the Environmental Board for final revisions or approval in June 1994. The final rule is expected to be promulgated and in effect in the fall of 1994. For further information on Part 378, please contact William Eberle at (518) 457-2480.

Grant Activity

A joint effort on behalf of NYSDEC and the US EPA has resulted in New York becoming one of the National Performance Review pilot projects on intergovernmental partnerships. The implementation of an integrated facility management approach to multimedia pollution prevention (M2P2) supported by flexibility in use of federal grants will be demonstrated and evaluated. The pilot will be evaluated after two years.

Pollution Prevention Conference

Preparations are underway for the 1994 Seventh Annual Pollution Prevention Conference to be held June 1-3, 1994 at the Omni Albany Hotel. One year after implementation of the M2P2 initiative at DEC, the conference, "Helping Business: Compliance and Beyond While Remaining Competitive," will address how the M2P2 program has been working for New York State industries and DEC. The conference is designed to bring together people from industry, government, academia, technical professions,

citizen and environmental groups, and others who are working on or are interested in exchanging information and stimulating further efforts and progress in pollution prevention. The conference consists of plenary, panel and case study presentation sessions, exhibitor displays of pollution prevention technologies and services, and an array of informational resources regarding M2P2 with an opportunity for interactive exchange of information.

First Annual Governor's Awards for Pollution Prevention

To recognize the outstanding commitment of New York industries to reducing pollutants they generate and discharge to the environment, Governor Mario M. Cuomo has instituted the First Annual Governor's Awards for Pollution Prevention. The Pollution Prevention awards honor companies who have developed new technologies, successfully substituted non-toxic for toxic materials and changed processes to eliminate or reduce pollution. The Pollution Prevention Unit has developed criteria and a weighted matrix for evaluation of applications. Nominations for awards will be made to the Commissioner by a committee comprising industrial, environmental and other state agency representatives. The awards will be presented at this year's conference.

Pollution Prevention Bulletin

The spring 1994 issue of the *Pollution Prevention Bulletin* will be available in late May or early June. This issue of the Bulletin will feature an article from our newly appointed Acting Commissioner, Langdon Marsh; pollution prevention information for printers with a case study; case studies of M2P2 successes; and a description of pollution prevention technical assistance programs in state and local governments. This issue will be available in late May to early June 1994.

Pollution Prevention Unit (PPU) Updates

- Three new staff members have joined the Pollution Prevention Unit, with three former staff members having moved on to other positions in the agency. Dan Demicco, Senior Administrative Analyst, and Joe Iannotti,

Environmental Engineer II, join the Project Management and Coordination Section, and Grace Farrell is beginning a traineeship as an Environmental Program Specialist in the Program Development and Support Section.

- The Department's first Annual Pollution Prevention Report has been prepared.

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

ERIE COUNTY OPP

The Erie County Office of Pollution Prevention (ECOPP) has been successful in securing \$225,000 to conduct a three-phase nonpoint source pollution prevention effort. As part of the Buffalo River Fish and Wildlife Restoration Demonstration Project, ECOPP will conduct an "Upper Buffalo River Pollution Prevention Monitoring and Implementation Project". This three-phase project will focus on coordinating existing efforts among the various agencies that are currently addressing nonpoint source pollution as well as providing pollution

prevention information to a wide audience including industry, public and private sectors.

The three Phases include:

- | | |
|-----------|---|
| Phase I | Identify and map land use activities and potential pollutant sources within a section of the Upper Buffalo River Watershed. |
| Phase II | Qualify, quantify and prioritize pollutant loadings through modeling and monitoring. |
| Phase III | Develop and implement remedial and pollution prevention strategies to reduce and/or eliminate the pollutant loads. |

To narrow the scope of this project, Phases I and II will focus on the Cazenovia Creek Sub-Basin of the Buffalo River Watershed. This project will complement existing pollution prevention projects by adding a nonpoint source element.

Pesticides Clean Sweep

On November 4, 1993, Erie County conducted the first ever county-wide collection event for unusable/unwanted agricultural pesticides in New York State. This cooperative effort was funded by the US EPA Region 2 through the Costal Environment Management Fund, CWA Section 104(b)(3).

After an outreach program and planning survey, a series of registration and training sessions were held. The 54 pre-registered participants provided an estimated 8,340 pounds of pesticide product that were properly removed from the local watersheds and the Lake Erie from Niagara Basin.

The Erie County Clean Sweep Project is a model for a developing state-wide agricultural pesticide disposal program. Interested counties are advised to establish an advisory group of representatives from the farmer's organizations and government agricultural agencies as early in the project planning process as possible. A copy of the final report is available through the ECOPP office.

Technical and Information Assistance

As reported in the last update, ECOPP conducted a pollution prevention training seminar for municipal sewage treatment agency officials on January 14, 1994. Dr. Robert Pojasek of GEI Consultants, Inc. facilitated the training and provided case studies from other areas geared towards POTW's. A total of 73 attendees from New York State, Ohio and Canada were present. Part of the program involved setting up a steering committee of POTW personnel and conducting a second training seminar. A final report was developed and will be available shortly.

On March 22nd, ECOPP conducted a "Pollution Prevention for Metal Painting Operations" with the cooperation of NEWMOA. ECOPP staff presented information contained in a training manual developed by WRITAR. Exhibitors were present to provide detailed information on cleaning, application, treatment and recycling opportunities.

ECOPP has been working with the University of Tennessee CIS and the NYS Department of Economic Development in downlinking a May 12th teleconference on dry cleaning. Other workshops are planned for later this year. Specific topics and audiences are still being discussed.

ECOPP provided pollution prevention information about our program to 26 federal, state, local government and private entities this past quarter. Most of the requests were from organizations starting a pollution prevention program or surveying what has been done.

On March 15th, ECOPP mailed a bulletin that described their on-site services to approximately 4,200 businesses throughout Erie County. As of April 8th, ECOPP has had 24 requests for on-site technical assistance and pollution prevention reviews from these facilities. The requests were comprised of 7 vehicle maintenance, 5 printing/photofinishing, 3 metal manufacturing, 2 municipalities, 1 educational, 1 dry cleaner, and 4 other facilities. **For more information contact:** Thomas Hersey, Erie County, (716) 858-7674.

NEW YORK CITY DEP/ITAC

The New York City Department of Environmental Protection (NYC DEP), Pollution Prevention Unit, will be convening a US EPA sponsored one-day conference entitled "Pollution Prevention and Sustainable Development: Tools for Economic Revitalization". This event is scheduled for June 23, 1994 in midtown Manhattan. All P2 Roundtable members who are interested in a draft conference outline, and are interested in attending or participating in this event should contact NYC DEP.

For more information contact: Jeff Potent, NYC DEP, (718) 595-3624.

SUFFOLK COUNTY WATER AUTHORITY

The staff at the Suffolk County Water Authority (SCWA) is continuing in its efforts to

THE NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION

The Northeast Waste Management Officials' Association (NEWMOA) is a non-profit interstate governmental association whose membership is composed of the hazardous and solid waste program directors in Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island and Vermont. NEWMOA is a forum for increased communication and cooperation among the member states, a vehicle for the development of unified positions on various issues and programs, and a source of research and training on hazardous and solid waste management and pollution prevention. NEWMOA's pollution prevention program was established in 1989 to enhance the capabilities of the state environmental officials in the northeast to implement effective source reduction programs. The program is called the Northeast States Pollution Prevention Roundtable (NE Roundtable). The NE Roundtable involves four components: (1) establishing a clearinghouse of information (2) conducting training sessions (3) researching source reduction strategies and (4) organizing NE Roundtable meetings and committee activities. NEWMOA's PP program is supported by grants from the U.S. EPA and by NEWMOA member states.

coordinate a series of five workshops that will be conducted on specific health and safety concerns for the water utility industry and service areas at automobile dealership. The workshops will be train-the-trainer type of format geared to supervisors and managers responsible for health and safety training at their facility. The Authority is working with the Greater New York Automobile Dealerships Association (GNYADA) and Safety Kleen to coordinate the workshops for the automobile dealerships and is working with representatives from individual water utilities both private and public to coordinate the water utility workshops.

Currently the staff is preparing an integrated pest management policy and program for the Authority to minimize the use of pesticides and fertilizers at Wellfield properties and within Authority buildings. Staff attended a one day train-the-trainer workshop on integrated pest management for schools, parks and other public sites offered by the International Pest Management Institute that was held at Stony Brook University in February. The workshop was conducted by William Currie, who did an excellent job in presenting a very informative workshop. For those interested in further information and workshops conducted by IPMI, contact William Currie at (301) 753-6930. In addition, the following documents are available on integrated pest management:

- Directory of NYS Pesticide Programs and Who to Contact for Help and Information

About Environmental Health (a listing of federal and nongovernmental resources) contact: NYS Dept. of Health at (800) 458-1158 ext 402

- EPA Pest Control in the School Environment: Adopting Integrated Pest Management, EPA 735-F-93-012, August 1993. Write to: Public Information Center, USEPA, 401 M Street, SW, Washington, D.C. 20460
- Pesticides in Schools: Reducing the Risks, Revised February 1994, NYS Department of Law, Attorney General's Office
- The Secret Hazards of Pesticides: Inert Ingredients, NYS Department of Law, Revised February 1994
- National Pesticide Telecommunications Network, (800) 858-PEST.

The Program has received requests for information on how to obtain pretreatment standards for a photoprocessing laboratory and has also received a request from a University in Argentina for information/documents available on CFC alternatives.

In addition, the Program has received a brochure from the University of Amsterdam for a summer course that will be offered by the University on August 15 - 26, 1994. In their letter accompanying the draft course brochure was a request for assistance in promoting the course. The University of Amsterdam is looking for assistance through other organizations, and

universities, in providing them with available databases containing student names and addresses and for organizations willing to hand out their leaflets at future conferences. Anyone that is interested in helping the University should write to Mrs. Drs. B. Hertz, Program Coordinator, University of Amsterdam, Interfaculty Department of Environmental Science, Nieuwe Prinsengracht 130, 1018VZ Amsterdam, The Netherlands, Telephone: (31) 20-525-6202/6218, Fax: (31) 20-525-5853. A copy of their letter and brochure will be forwarded by Program staff to the P2 Consortium of New England Universities Program at NEWMOA.

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

NEW JERSEY

NEW JERSEY DEPE

NJDEPE sent out its first round of Pollution Prevention Plan Summary Reports to approximately 600 of the 800 companies covered by the state's Pollution Prevention Act. Covered companies must prepare Pollution Prevention Plans by July 1, 1994 and keep them on-site and, submit a Pollution Prevention Plan Summary by July 1, 1994 to NJDEPE. The Summaries collect facility and process-level pollution prevention data, including production process descriptions and facility-set five-year pollution prevention goals.

The New Jersey Pollution Prevention Program is under scrutiny from the New Jersey Legislature which is considering amendments to the state's 1991 Pollution Prevention Act, which would significantly alter the purpose and function of the program. The pending amendments were developed in response to criticism of the program by some of the state's industry, particularly the chemical industry. A legislative hearing on the amendments was held in March; the Whitman administration has not taken a formal position on the amendments.

The 15 companies participating in the NJDEPE Facility-Wide Permit program met to set a course and schedule for the program. All 15 companies volunteered for the innovative program under which each company will be

issued a single environmental permit that consolidates its regulatory requirements with its pollution prevention plan and replaces its existing permit requirements. The program is required by the state's Pollution Prevention Act which stipulates that the actual Facility-Wide Permits will be issued by September 1995.

NJDEPE embarked on an aggressive outreach effort to educate the state's industries about their regulatory requirements under the Pollution Prevention Act, but to also educate industries about the financial benefits of pollution prevention. Six workshops on various pollution prevention topics were held at different locations around the state throughout February and March. In addition, personal phone calls have been placed to approximately 300 businesses with less than 50 employees. The NJDEPE Pollution Prevention Guidance Document was distributed to 800 companies and site visits have been conducted at every facility calling to request assistance.

NJDEPE has completed three reports on pollution prevention topics. The first studies the use of materials accounting data in tracking pollution prevention progress in comparison to emissions data as gathered by the Toxics Release Inventory. The second develops a profile of the state's major industries that are covered under the Pollution Prevention Act. The third provides a brief overview of pollution prevention progress reported for the past three years to NJDEPE.

For more information contact: Thomas Ballantine, NJ DEPE, (609) 984-7339.

MASSACHUSETTS

MASSACHUSETTS TURI

Education and Training

The Plan Enhancement Program (PEP), a joint program of DEP, OTA and TURI, has provided a number of outreach and training projects to TURA filers. Specific training programs have included planning workshops, field planning assistance, and planning clinics. In addition, beginning in March, PEP initiated a weekly open house. The TUR Planners Open House is scheduled each Thursday from 9:00am

to 4:00pm at TURI's office at the University of Massachusetts Lowell. PEP staff are on hand to answer questions and assist planners in the development of TUR plans. During the open house, planners have an opportunity to discuss ideas and share information on their experiences with TUR planning. In addition to TUR planning assistance, the open house also provides one-on-one assistance on preparing for the toxics use reduction planners examination. PEP's newsletter, *PEP Talk*, is distributed to over 2,000 people. The fourth edition is planned for distribution in early May 1994. For more information on PEP events and the open house, please call the PEP Hotline at (508) 934-3144.

The Toxics Use Reduction Planners Course is now into its spring 1994 session. The course is being offered at six locations throughout the state. To date, 150 individuals are enrolled in the spring sessions. With this 150, the number of individuals who have completed the TURP course total approximately 553.

Research

TURI's research division recently issued its third request for proposals for the Matching Grants for Industry program. Funding is available for Massachusetts companies who are engaged in toxics use reduction activities. The grants, which provide one year of funding, are awarded on a competitive basis. The application deadline is April 29, 1995 for FY-95 funding. Awards will be announced in June. Please call TURI's main number at (508) 934-3275 for a copy of the RFP or more information on the program.

The Research Fellows Program, offered to University of Massachusetts Lowell graduate students, will begin its fourth year in September 1994. These awards are provided to students who are conducting innovative TUR research. Research proposals are currently being solicited for the upcoming academic year.

TURI recently published a new fact sheet on "Non-Cyanide Plating Processes". This fact sheet describes alternative processes for copper, zinc, and cadmium plating. These TURI fact sheets published in 1994 include, "Toxics Use Reduction", "Design for Environment", "Clean Production", "Alternatives to Solvent-Based

Coatings", and "Alternatives to Petroleum and Solvent-Based Inks". A new methods and policy report entitled, "Summary of Responses: TURI Further Chemical Restriction Policies Report" was published in 1993. This is a follow-up report to the "Chemical Restriction Policies Report" that was published in January 1993. For copies of TURI fact sheets and reports, or for a listing of TURI facts sheets and reports to date, please contact TURI's main number.

The Surface Cleaning Laboratory is now open for business. The lab will test and evaluate aqueous cleaners and equipment. The initial focus is on non-precision cleaning applications, such as metal finishing and metal parts industries. The lab staff will assist companies in evaluating and selecting process-specific aqueous cleaners and equipment. A standard consultation is free of charge to all TURA and non-TURA filers in Massachusetts that use toxic chemicals. More extensive services will be available to out-of-state companies and suppliers on a fee for service basis, however, preference will be given to all Massachusetts companies. TURI encourages other P2 program people to visit the lab.

The Environmental Protection Agency Clean Alternative Project is underway. TURI is currently identifying companies that will switch, or have recently switched, from chlorinated solvents to safer alternatives. Each case study will examine the technical, economic (total cost assessment) and environmental effects of solvent substitution alternatives.

Technical Support

Work on the United Nations Environment Programme grant is progressing and is near completion. The grant provides for the assessment of equipment availability and needs in the development of the clean production technologies industries.

The Technology Transfer Center continues its acquisition of new reports, articles and books. The number of users of the Center continue to steadily increase. The number of users from January through March 1994 totalled over 207; 80 of these were visitors. The majority of users are from Massachusetts and include those from private firms, government and colleges and universities. Those interested in the

TTC are encouraged to visit or call (508) 934-3346 for more information. The TTC is open from 9:00am to 4:00pm, Monday through Friday.

Other

Three members of the TURI staff participated in the April conference of the National Roundtable of State Pollution Prevention Programs in Seattle. Jody Hensley chaired and facilitated a session on Pollution Prevention and Higher Education; Jodie Siegel presented a session on Wet Garment Cleaning Processes; and Beverly Johnson presented a plenary session talk on Pollution Prevention and Environmental Justice.

Several TURI staff members will participate in sessions of the New England Environmental Expo scheduled for late April. TURI will also have a display booth at the Expo. A selection of TURI Publications and other materials produced by TURI will be available at the booth.

For more information contact: Beverly Johnson, TURI, (508) 934-3298.

MASSACHUSETTS OTA FOR TUR

"AMNESTY OFFERED TO COMPANIES FAILING TO REPORT TOXIC CHEMICAL USE" is the headline that topped the February 1, 1994 release from DEP announcing an opportunity for Massachusetts companies that have failed to report as required under the Toxics Use Reduction Act (TURA). The amnesty period allows companies to file TURA reports and pay the back fees they owe without additional penalties. Under TURA, large quantity toxics users are required to report annually on their chemical use and waste, and pay fees based on that usage. To date, some 700 companies have filed their TURA reports with DEP. "TURA is the centerpiece of the state's pollution prevention efforts," said Environmental Affairs Secretary Trudy Coxe. "The ultimate goal is to help industries reduce the amount of toxic chemicals they use and waste. But for the program to work as it was intended, we need reliable and accurate information, which the law requires industries to provide."

The amnesty program, which began immediately and runs until September 30, 1994, will be divided into two phases. During the first phase, DEP invites companies to voluntarily file their annual reports and delinquent fees. Those which do so before May 31, 1994, will not be subject to additional penalties. During phase 2, June 1 through September 30, 1994, DEP will be actively looking for non-filers. Those companies which DEP discovers to be "outside the system," will be subject to having their fees doubled, as well as paying significant penalties. Companies that come forward voluntarily during this phase still must file their reports and pay delinquent fees but will not be subject to additional penalties unless other serious conditions exist.

TURA seeks to reduce the use and waste of hazardous materials by Massachusetts companies. In addition to the annual reports, large quantity users are also called on to develop Toxics Use Reduction Plans detailing how they could reduce their reliance on toxic chemicals or reduce their toxic waste. Those plans are due to be in place by July 1, 1994. Contact Cynthia Chavez, DEP, (617) 292-5848. (DEP will send information to an individual's home if there is concern about revealing a company name.)

Site Visit Highlights

OTA technical assistance teams have been working on a variety of projects, including: a manufacturer having problems with copper, TPH and phthalate in its effluent; a manufacturer of rubber insulation (recommendations centered around better operating procedures to minimize the waste generated); a company that cleans and refurbishes used 55 gallon drums; a coatings facility seeking resin and solvent replacements in their coatings as well as technologies for recovering solvents; a pilot study for determining the effect of dragout recovery on the plating process at a metal finishing facility; preparation of a list of formulators of UV curing coatings; a manufacturer of roofing materials; a coating company experiencing seasonal difficulties because of the effect temperature has on resin viscosity in storage tanks; and a no-discharge tumbling process.

Special Projects

The members of the **Merrimack Business Environmental Network** voted to expand the area of the group's activities and change the name of the group. The group will now be known as Northeast Business Environmental Network and will work with business, government and environmental groups to accomplish what MBEN showed itself to be good at — building working partnerships on a watershed basis to accomplish pollution prevention, economic growth and environmental excellence all at the same time. The original group of MBEN member companies and groups will become the charter chapter of the new organization and keep their local Merrimack River watershed focus. The organization is now in the process of filing for incorporation as a non-profit tax-exempt corporation. Contact: Cynthia Barakatt, (617) 727-3260 ext 666.

OTA staff are reviewing agency clean state plans, have continued offering educational workshops and technical assistance to state facilities in a number of areas of concern, and are conducting an interagency effort to perform model site visits.

A demonstration of alternative paints and application methods for industrial users, 8:00 am - 3:00 pm, **Tuesday May 17**, at Minuteman Regional Vocational Technical School, Lexington, Massachusetts, will give vendors of low pollution industrial paint and coatings and application systems a day-long opportunity to demonstrate their products. A special feature of this event, called **Painting Innovations for the 90s**, is that manufacturers may bring unfinished, ready-to-be-painted samples of their products. The event will give vendors the opportunity to demonstrate and potential purchasers the chance to test the new surface coating products and application techniques they need to meet Clean Air and other environmental regulations. Minuteman Tech is on Rte 2A just west of Route I-95/128 and the demonstrations will be in the school's auto body shop. There are no registration fees for attendees. Contact: Bill Griffin, OTA, (617) 727-3260 ext 694 or 644.

OTA is coordinating the Massachusetts downlinks — at six to ten locations — for **Clearing the Air on Clean Air**, the first national

interactive teleconference for **Perc Dry Cleaners** scheduled for **Thursday, May 12**. The four-hour EPA-developed training is designed to help dry cleaners comply with the new EPA "Clean Air" requirements that go into effect June/July 1994. Registration is free; all participants will receive a comprehensive reference book with sample monitoring forms, EPA forms, corrective action forms, loan information for equipment changeouts, and recommendations for other steps that can help reduce costs. The agenda:

- History of the Clean Air Act will provide dry cleaners an understanding of how the law impacts their business and the specifics of collecting data and monitoring usage of perc;
- Live, interactive, step by step explanation of the three forms that must be returned to EPA before the June/July deadlines, and
- A time for one-on-one discussion between dry cleaners and regulators on the Clean Air Act regulations. Contact: George Frantz, OTA, (617) 727-3260 ext 631.

New Publications

OTA has, or will soon have, several new or revised publications. The first printing of OTA's *A Practical Guide to Toxics Use Reduction* has been distributed and a new updated and revised edition will be available by mid-May. *A Practical Approach to Solvent Substitution*, is a four-page summary of regulatory considerations and options companies need to keep in mind as they seek to eliminate CFCs and other ozone depleting substances from their operations. *The Central Massachusetts Pollution Prevention Project, Summary Report*, covers OTA's role and results in its joint three-year EPA funded project with DEP in the Blackstone watershed region. The Blackstone Project was awarded a Ford Foundation "Innovations in Local Government" award and pilot tested the ability of joint cooperative efforts by regulatory and nonregulatory bodies to foster pollution prevention.

The following are proceedings/workbooks from recent OTA conferences:
Clearing Up the Clean Air Act for Business (February 4, 1994 conference)
Milspecs Roundtable Proceedings (October 20, 1993 conference)
Pollution Prevention for the Printing Industry (September 30, 1993).

The EPA supported **Critical Parameters Project** is a now two-pronged focus on discharges to the wastewater system: an educational effort aimed at loadings from homes and work with small communities facing heavy loadings from a single manufacturing source. OTA has published the following:

H₂ome Improvements: Preventing Pollution from the Home (manual)

H₂ome Improvements (6-lesson primary grade curriculum) to be printed soon

H₂ome Improvements (30-minute video)

The Warren Project, a preliminary report.

Toxics Use Reduction Case Studies & Success Stories:

Materials Management Yields Major Savings for Anitec, a manufacturer of photoprocessing materials and equipment.

Deluxe's Solvent-Free Printing System, is a solvent and VOC free "printing system" that integrates ink and blanket wash for lithographic printers. OTA has published more than 20 case studies and several more are in process.

Miscellaneous

Barbara Kelley, Paul Richard and David Geschwind participated in the National Roundtable of State Pollution Prevention Programs in Seattle in early April.

Clean Air Act training by OTA staff for OTA staff is underway.

A team from the Tufts Capstone Program has chosen Hazardous Materials Use in Schools as its project and will be working with OTA to identify materials and propose solutions that incorporate P2 principles. Richard Torberg is working with NEWMOA on a financing sources packet and an article on P2 finance for *Pollution Prevention Review*. Grace Offen has gathered information on safer wood preservatives. Bill Griffin visited the Center for Technology Conversion in Westborough and found some useful information on chemical treatment for cooling towers and compositions to replace R-12 in home and auto air conditioners. The center is looking for companies to take research from NASA and develop commercial products; it can do exhaustive computer searches, on request, for current research in areas of interest.

OTA and EOEa personnel are participating in organization of the **North American Hazardous Materials Management Association (NAHMMA)**, proposed as a nonprofit, membership based group. NAHMMA's primary focus will be household and small business hazardous materials and waste and other entities exempt from national regulation in those areas; the group plans to develop on-line information services, policy alert services and to publish a newsletter — in order to promote communication and information exchange for those involved in hazardous materials research, manufacture, and management. Contact: Michael Frishman, OTA, (617) 727-3260 ext 674; Michael Bender, NAHMMA, (802) 223-9000.

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

MASSACHUSETTS DEP

The MA DEP has been working on a number of new initiatives in the Toxics Use Reduction (TUR) program. This spring and summer, the program will be developing regulations for:

- waivers from permitting requirements if companies do P2;
- criteria for setting up user segments; and
- listing/delisting criteria for TURA chemicals.

They will be forming workgroups for rule development in the near future.

The 1992 TUR data was released April 15, 1994 at the TUR Administrative Council meeting. Standard reports and discs with the complete set of raw data are available from Steve Nelson (617) 574-6804.

Other activities underway include an Amnesty program for companies that have not filed past TURA reports and back fees. See the MA OTA for TUR program update on page 10 for details on this program.

DEP has issued a guidance manual for TUR planning. The manual describes the regulatory requirements for the TUR plans that are due July 1, 1994. Model sections of plans and charts for organizing planning information

help to facilitate TUR planning. DEP recommends that the guidance manual be used in conjunction with the MA OTA *Practical Guide to Toxics Use Reduction*, which describes how to do a plan.

On February 15, 1994, DEP administered the second TUR certifying exam for TUR planners. Sixty-six new TURPs were certified. The third exam is scheduled for May 14, 1994.

For more information contact: Susan Green, MA DEP, (617) 292-5582.

MAINE

MAINE DEP

The Maine Small Business Assistance Program is now fully underway with the hiring of Brian Kavanah as the principal technical assistance coordinator for this CAAA 1990-related position. Initial work in Maine has been with Dry Cleaners (perc) and follow-up training on regulations and P2 opportunities are planned for this spring. The program is merged with the Office of Pollution Prevention to ensure that P2 is the priority method for reaching compliance with the many CAAA regulations impacting small businesses in Maine.

The first reports are in for Maine's Toxic Use Reduction law. Data will be analyzed this summer/fall and released as statewide numbers (by statute) in the fall. A series of workshops is underway across the state to help companies improve reporting and review issues related to their plans.

Maine DEP staff training is planned for this summer to build on past efforts to include P2 in all aspects of work at the department. The OPP in cooperation with a DEP-wide education committee is coordinating the effort.

P2 Teams are being developed to work with state purchasing officials to encourage P2 considerations when seeking bids on supplies.

ME DEP/Industry TQEM Teams continue at 12-15 of ME's largest businesses (paper, metal, etc.); they will report on the results of these projects in a future newsletter.

DEP Commissioner Dean Marriott resigned in March to take on the position of Environmental Director for the City of Portland, Oregon. Former Deputy Commissioner Debrah Richard has been appointed as acting commissioner. Debrah is a major supporter of P2 and continues to promote the program in her new capacity.

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

MAINE WASTECAP

\$280,000 Available to ME Businesses for Low-Interest Loans to Encourage P2 & Recycling

The availability of \$280,00 for low-interest loans for businesses was recently announced by the Finance Authority of ME (FAME) and the Maine Waste Management Agency (MWMA). Loans are available on a competitive basis for businesses that are reducing, reusing or recycling solid waste. A business may borrow up to \$50,000 at rates as low as four percent if its proposal is selected for funding. Applications are due to FAME by June 30, 1994.

FAME and MWMA will fund projects that support the use of recycling materials in manufacturing processes, that reduce, reuse and recycle waste by the generating businesses; and that process waste for reuse and recycling. Priority will be given to projects that address bulky waste, such as tires, construction and demolition debris, and organic wastes such as food and wood waste.

Loans made under this program will help to continue the rapid expansion of businesses to reduce and recycle solid waste.

Maine Businesses Receive Governor's Waste Reduction Award

On March 31, 1994 at the annual waste management and business conference in Portland, sponsored by the MWMA, the ME Alliance, and Waste Management of ME, the Governor's Waste Reduction Award was presented to two ME businesses. This award was

developed to recognize and promote business waste reduction efforts.

This year's winners are Lamey Wellehan of Lewiston and L.L. Bean of Freeport.

Elements of Lamey Wellehan's waste reduction program include: developing a company mission statement that states "Lamey Wellehan promises (to be) respectful to its community;" encouraging customers to use reusable bags when making purchases by offering a \$1.00 rebate. Through this program, the company reduced the use of Lamey Wellehan plastic bags by ten percent; and donating shoe boxes and shoe sticks, accounting for ten percent of their waste, to local schools and resource centers. Lamey's reuse and recycling programs saves the company over \$2000 per year.

Elements of L.L. Bean's waste reduction program include: an environmental policy stating, in part: "L.L. Bean will conduct its business in an environmentally responsible manner...;" eliminating 25,000 boxes from the waste stream by the use of reusable plastic totes and more than 4.8 million boxes through reuse of boxes; encouraging reconditioning and reuse of their products, saving 148,497 items from going into the waste stream last year; and buying recycled paper and paper supplies for internal use, recycled paper for their catalogue and order forms, recycled corrugated shipping boxes, recycled paper packaging rather than polystyrene or bubble wrap, and recycled paper for retail bags.

This is the third year the Governor's Waste Reduction Award has been presented to ME businesses that have implemented innovative programs. Hannaford Brothers Co. of Scarborough was 1992's recipient. In 1993 the award was presented to You Know Whose Pub of Waterville, Statler Tissue Company of Augusta, and Bath Iron Works of Bath.

Health Care Facility Waste Reduction Conference Attracts Over 60 Facilities

On April 4 - 5 over 60 hospital administrators, facility managers, environmental service directors, and other health care professionals came together for a full day and evening workshop on developing responsible waste management practices for health care

facilities. The overall focus was on how to create less waste and realize cost savings.

Topics for the conference included: an introduction to health care facility waste management (including federal and state regulations); a characterization of health care waste; and an overview of health care waste reduction. On the evening of April 4th, a pre-conference discussion focused on efforts of the health care supply industry to reduce packaging waste.

The conference featured two nationally known experts from CGH Environmental Strategies, Inc., of Burlington, VT, a firm that specializes in waste management for health care facilities. Hollie Shaner, R.N., President and Co-founder has more than 15 years of nursing experience and Kathleen Scacciaferrom, R.N., a former lab manager, currently teach and facilitate total quality management training sessions for hospitals.

The conference, sponsored by the Eastern ME Development Corp., the ME WMA, and WasteCAP ME, was held at the Bangor Airport Marriott. Co-sponsors for the workshop included: the Association of Operating Room Nurses, ME Health Care Association, ME Hospital Association, and Synernet.

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

CONNECTICUT

CONNECTICUT DEP

National Industrial Competitiveness Through Efficiency, Environment, Energy and Economics (NICE-3)

The Connecticut Department of Environmental Protection (Department) submitted two grant applications in response to the DOE/EPA grant solicitation for the NICE-3 program. One project will test and provide on-site demonstration of an innovative heat treatment process for stress relieving wire and will eliminate hazardous chemical inputs and waste and reduce energy related to the current conventional bell furnace heat treatment system.

The second project will design and test hydropulping mini-mill machinery for a regional supplier of table-top milk and juice containers. The NICE-3 grant program is a competitive grant process open to all fifty states. Awards will be announced in May 1994.

Department Pollution Prevention Workgroup Formed

The Department's Bureau of Waste Management established a Pollution Prevention Workgroup in February. The Department-wide planning group will coordinate pollution prevention activities across programs and bureaus, initiate further efforts to institutionalize pollution prevention within the Department's functions and act as a planning committee for a proposed Advisory Committee on Pollution Prevention and Sustainable Development to the Department's Office of Pollution Prevention.

Inspectors Disseminate Pollution Prevention Information

Inspectors in compliance programs for core grant programs in air, water, hazardous waste as well as pesticides and underground storage tanks, now provide an introduction to the Departments' pollution prevention office, deliver the Pollution Prevention Options for Industry booklet prepared by the Department, and survey the facility manager about the company's waste minimization/pollution prevention program.

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

CONN TAP

ConnTAP has awarded Matching Challenge Grant Funds to five Connecticut organizations to assist in developing and evaluating projects to prevent or minimize hazardous waste, wastewater discharges, and air emissions. Grants totalling \$30,000 have been authorized for projects scheduled for completion in calendar year 1994. The following projects have been funded:

- Development of a pollution prevention training curriculum and manual for employees.

The training materials will be available through ConnTAP for use by other companies.

- Wastewater recycling study for application of Nano/Reverse Osmosis filtration to copper contaminated process wastewater for the purpose of reuse.
- Evaluation of a fungal degrader of environmental pollutants. Fungus has a high tolerance for toxic materials and therefore may have an advantage over the more common bioremediation techniques using bacteria cultures.
- Source reduction evaluation of iron phosphate substituted for zinc phosphate in a metal finishing process. Successful substitution would reduce the discharge of toxic zinc ions, the zinc content of metal hydroxide sludges disposed, and reduce employee exposure to cadmium, which is a contaminant in zinc solutions.
- Pilot study regarding the substitution of ozone for chlorine (sodium hypochlorite) in treating cyanide bearing wastewaters. If successful, this treatment would result in a less toxic effluent to surface waters and would eliminate the dangers from the storage, handling, and use of chlorine.

Final reports discussing results of these projects will be available from ConnTAP in early 1995.

Evaluation of the ConnTAP resource center filing system is underway. As our resource center's library of documents continues to grow, accessibility has become increasingly important. Discussions with a library consulting agency took place in mid-March to determine if outside assistance is required. The consultant's proposal is expected in early April. The primary areas of focus are improved accessibility of the center's 1,000+ documents, purging of outdated material, determining sources of new acquisitions, and improving our computer filing system. We anticipate evaluating In-Magic software. In addition, the resource center will soon house the library of the American Electroplaters and Surface Finishers Society (Hartford Chapter). Reorganization of the ConnTAP resource center is needed prior to this event.

Robert Brown has joined ConnTAP as the Technical Specialist. Bob comes to

ConnTAP from an environmental regulatory compliance/pollution prevention position with a major Connecticut manufacturer. Please contact Bob with questions related to technical issues.

The 1993 Status Report on Connecticut Hazardous Waste Generation and Management has been issued. This report, prepared by ConnTAP's parent organization, the Connecticut Hazardous Waste Management Service, highlights ConnTAP's positive contribution to hazardous waste reduction efforts in Connecticut. Copies of this report are available from ConnTAP. A summary of 1991 hazardous waste data for Connecticut will be the focus of a ConnTAP publication expected to be issued this summer. This summary will update the Status Report that was based on 1989 data.

ConnTAP recently published a subject index for all *ConnTAP Quarterly* newsletters published since 1985. The index makes quick work of tracking down a particular article in a Quarterly. The index is available from ConnTAP, as are back issues of the Quarterly.

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

EPA REGION 1

Regional Issues and Activities

Since the last Newsletter, our new Regional Administrator, John DeVillars has come on board. Mr. DeVillars has served as head of MA's Executive Office of Environmental Affairs, and more recently with Coopers and Lybrand. He has come to Region 1 with a favorable attitude toward P2 (and in fact has highlighted it in several speeches already). Shortly after arriving, Mr. DeVillars voiced his four main priorities for Region 1:

- Helping the regulated community be better environmental citizens.
- Fostering New England's environmental technology industry.
- Innovative and cost-effective application of regulations.
- Strong and targeted enforcement.

The Region 1 P2 Task Force intends to see that P2 principles are incorporated into

planning and implementation in each priority area.

Region 1 has been named the lead for the "P2 issue" within the Office of Research and Development. We plan to use our new position to advocate for more comprehensive and practical directions in P2 research.

In January, Region 1 P2 staff met with representatives of the Barnstable County (MA) Health and Environment Department to learn about their latest P2 outreach efforts. Among other services, the program teaches small businesses and public institutions (like schools) about P2 through on-site audits and hazardous substance removal. This is an enormously productive P2 program, in part because those involved are well-acquainted with those they are trying to influence.

Region 1 held a competition among our Divisions to choose projects to support with this year's \$155K in internal P2 funds. The seven winners are:

- A Resource Efficiency Auditing Program in Minority and Low Income Communities.
- Measuring the Effectiveness of EPA Pollution Prevention Outreach Activities.
- Workshop for the States on Integrating P2 into the Implementation of the Clean Air Act.
- Pollution Prevention Opportunity Training for RCRA Inspectors.
- Incorporating P2 and Environmental Justice Criteria into a Multimedia Compliance Inspection Targeting System.
- Integrating Environmental Constraints into Local Land Use/Transportation Plans (Cape Cod focus).
- Pollution Prevention Consortium of New England Universities (support).

PPIS Grants

The Regional Administrator has already made a difference in Pollution Prevention Incentives for States grants in Region 1. Mr. DeVillars modified the draft guidance to make ALL state agencies, state universities and tribes eligible to compete for the \$550K to be awarded, and asked that \$100K be earmarked for P2 indoor air projects. As of April 11, we are planning to issue the guidance in the next day or two; pre-proposals are due May 13, 1994.

Green Lights

Northeast Utilities, the largest utility in New England, has joined the Green Lights program as an "ally." The New Hampshire Hospital Association has joined as an "Endorser." Shaw's Supermarkets, based in New England, became the first national grocery chain to join. Shaw's 85 stores in New England will upgrade to energy-efficient lighting where feasible. Shaw's won an EPA Stratospheric Ozone Protection Award in 1993 for recycling CFCs and adopting refrigeration that does not require CFCs. (Contact: Norman Willard, (617) 565-3787)

Training and Outreach Programs

Region 1 continues to hold monthly P2 Technical Seminars for compliance, permitting and enforcement staff, wherein industry, state experts and others present information on standard processes and P2 techniques/technology. Seminars on printing and closed-loop recycling have taken place this calendar year, as well as a field trip to an electroplating firm that introduced process changes and substituted inputs as part of a Supplemental Environmental Project.

Several Toxics Release

Inventory/EPCRA outreach workshops will be offered throughout the region starting in early May and continuing through June. (Contact: Dwight Peavey, (617) 565-3230)

An Integrated Pest Management conference will be held in Marlborough, MA in September or October. Its theme will be "IPM Services for the Consumer," focusing on structures, turf, and ornamental vegetation. (Contact: Rob Koethe, (617) 565-3702)

Fred Friedman, the contractor managing our Research Library for RCRA, has developed a grants database for entities seeking funding assistance which we cannot provide (municipalities, startup entrepreneurs, for-profit companies, etc). We receive 20-30 inquiries about this database per month. There are about 240 grantmaker listings in the database now (foundations, venture capitalists, states, etc). We have documentation of at least a dozen successful matches (funding received) via Fred's referrals. (Contact: Fred Friedman, (617) 573-9687)

Fluorescent Lamp Recycling

Global Recycling Technologies wrote to EPA Region 1 in March to express concern over their inability to receive fluorescent lamps for recycling that are manifested as a hazardous waste. Representatives from the Waste Division are working with the company in hopes of resolving the problem, and are continuing to evaluate the regulatory options relative to RCRA regulation of fluorescent light bulb recycling. (Contact: Lisa Papetti, (617) 573-5745)

National Waste Minimization and Combustion Strategy

The Region 1 Waste Management Division has initiated discussion with the New England states on potential projects to implement EPA's **Draft Strategy on Waste Minimization and Combustion**. These projects could include direct mailings to facilities in selected states or industries, meetings with hazardous waste generators, state technical assistance and business and industry groups, or a regional conference.

P2 in RCRA Permits

The Region 1 Waste Management Division has developed draft language that can be used in HSWA permits. The document is currently in review in the regional office. We hope to begin discussion of how this language can be applied to state permitting activities in the summer.

Pit Stops Project

The state of Maine held a workshop in February for auto repair shops; other states are planning to hold workshops later this year. Although the poster for auto repair shops has been designed, few funds remain to print it. EPA is working to identify other funds to print a limited number of copies this spring for distribution by states and automotive associations. The slide show and audio tape are slated for production and distribution to the states this spring. Massachusetts has convened a group of educators and has begun development of P2 teaching curricula for use in vocational-technical schools. A matrix of regulations pertaining to

auto repair shops in the New England states is available.

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

EPA REGION 2

Review of Pollution Prevention Grants

In 1993, Region 2's Office of Policy and Management conducted an evaluation of the pollution prevention grants that were awarded from 1990 through 1993. This close examination enabled us to easily target our grants guidance to better the quality of proposals we receive in the future.

Pollution Prevention Incentives for States

Region 2's FY-94 PPIS grant funds will be awarded on a competitive basis. The five areas being targeted are: partnerships with local government and private non-profit organizations; tangible measurements for the reduction of waste generation; the Region's high risk problems; sustainability of projects beyond their funding periods; and special focus issues (environmental justice, non-industrial sectors and infrastructure building in Puerto Rico and the Virgin Islands).

Tour de Sol

On February 10, 1994 Nancy Hazard, Director of Tour de Sol (TdS), spoke at 26 Federal Plaza. After talking about the 1994 TdS, an electric and solar-powered vehicle race, she recruited about 30 EPA Region 2 volunteers for the May event that will run from New York City to Philadelphia.

Total Cost Assessment (TCA) Workshop

Region 2's TCA workshop originally scheduled for March 24 has been rescheduled for Thursday, May 26. Information on the training, which will be facilitated by NEWMOA's Terri Goldberg, will be sent out shortly.

Pollution Prevention Opportunity Assessment Workshop

From February 28 - March 2, 1994, EPA

Region 2 and the Air Force Center for Environmental Excellence (AFCEE) conducted the second jointly sponsored Pollution Prevention Opportunity Assessment Workshop. The workshop was financed primarily by EPA's 1993 Pollution Prevention Set-Aside Funds, with contracting and logistical support from AFCEE. The workshop was held at Picatinny Arsenal, an Army research facility in Dover, New Jersey. The workshop was attended by approximately 55 people, including environmental, operations, and facilities staff from each of the military services, several National Guard and Reserve units, EPA, and a number of other federal agencies and departments. The workshop covered pollution prevention policies, initiatives, and assessment procedures, employing a hands-on approach to enable students to readily implement what they learned. Toward that end, the workshop included instruction on the pollution prevention process, site visits to facility activities to assess waste generating processes and identify pollution prevention opportunities, and a review of case studies and techniques for implementing recommended pollution prevention opportunities. Additionally, the attendees identified more than 50 recommended pollution prevention opportunities for various facility activities during the field exercises.

A Navy Base in New Jersey has expressed an interest in conducting a facility-wide PPOA in the near future. The Base Environmental Coordinator participated in the PPOA Workshop at Picatinny Arsenal, and subsequently expressed an interest in inviting EPA to participate.

Funding is available for ORD to conduct several PPOAs nationally (though some contract details still need to be "ironed out"). We hope to get one of the PPOAs done in Region 2. Discussions are underway regarding the types of facilities that may be of interest to both ORD and the Region. (Contact: Steven Petrucelli: (212) 264-6720)

Post Office P2 Opportunity Assessment

On December 15, copies of the PPOA of the General Mail and Vehicle Maintenance Facilities were submitted to the National Technical Information Service (NTIS) in Springfield, Virginia. The report has just been

assigned an NTIS number, PB9412978, and now can be ordered through NTIS for \$27.00. (Contact: Steven Petrucelli: (212) 264-6720)

Green Lights

Over the past quarter, Long Island Lighting Company became a Green Lights Utility Ally and The St. Regis Mohawk Tribe became a Green Lights Government Partner. (Contact: Ed Linky (212) 264-2517)

Closure for Underground Injection Wells

Region 2 requires that each closure plan contains a signed site maintenance plan that must state, among other things, that:

- the facility will use collection devices to contain spilled materials, clean up spills immediately to prevent waste accumulation, and collect spilled materials manually before using non-reusable absorbent materials;
- an attempt will be made to eliminate wastewater generation through recycling, improved housekeeping, waste minimization or other means;
- should the facility not be able to eliminate the waste stream entirely it will attempt to reduce the waste stream volume and toxicity in order to reduce costs, liabilities, and regulatory burden of waste management;
- the facility will incorporate safe alternatives to hazardous materials to the extent possible;
- the facility will use corrosion resistant materials to enhance recycling, spill prevention and storage;
- pipes, fittings, valves, pumps and equipment will be maintained to insure prevention of leaks and spillage; and
- personnel will be informed of good housekeeping practices, maintenance and inspection procedures. (contact: Chip Hillenbrand (212) 264-5124)

States Report Pollution Prevention Activities At EPCRA Seminars

The Region is coordinating eight Emergency Planning and Community Right to

Know seminars in Region 2 (four in New York, four in New Jersey). At each seminar, representatives from the state's pollution prevention program will make a presentation on their program. The audience will consist of invited facilities. The NJDEPE Pollution Prevention presentations will cover the NJ Release and Pollution Prevention Report (DEQ-114) and the Pollution Prevention Plan Summary form. NYSDEC will be making presentations on their Multimedia Pollution Prevention (M2P2) program.

The following is a list of the dates and locations for each seminar:

New Jersey:

1. April 15, 1994 - Mahwah
2. April 26, 1994 - Clarksboro
3. April 28, 1994 - Edison
4. April 29, 1994 - Edison

New York:

1. April 12, 1994 - Buffalo
2. April 13, 1994 - Liverpool
3. April 19, 1994 - Albany
4. April 21, 1994 - New York

Training On Executive Order 12856

We are coordinating a Federal Facility Emergency Planning and Community Right to Know Training that will cover the requirements under the Exec. Order 12856, Federal Compliance with Right to Know Laws and Pollution Prevention Requirements. This will be held June 7-9, 1994 in Edison, NJ.

33/50 Program Activity Update

EPA's 33/50 Fourth Progress Report showed a 55.06 percent increase in releases and transfers associated with companies making 33/50 commitments in Puerto Rico. Region 2 believes that this increase reflects increased production activity at committed facilities in Puerto Rico having corporate parents located in the continental United States. In an attempt to normalize the data to better reflect usage trends

and company achievements, we have asked 19 facilities, identified by Hampshire Research as having the highest percentage increases, to provide us an explanation for the increases. We have started to receive responses.

We also plan to contact facilities with corporate commitments in the Great Lakes Basin to determine whether they are aware of and participating in the 33/50 Program. (contact: Nora Lopez (908) 906-6890)

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

NEW POLLUTION PREVENTION PUBLICATIONS

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

"TURA Primer, Massachusetts," Associated Industries of Massachusetts, Toxics Use Management Committee, September 1993, (617) 262-1180.

"The Central Massachusetts Pollution Prevention Project, Summary Report," The MA OTA, (617) 727-3260.

"A Practical Approach to Solvent Substitution," MA OTA, (617) 727-3260.

"Toxic Use Reduction Case Study, Materials Management Yields Major Savings for Anitec," MA OTA, (617) 727-3260.

"Toxic Use Reduction Success Story, Deluxe's Solvent-Free Printing System," MA OTA, (617) 727-3260.

"Massachusetts Photographic Chemical Waste Project Report," Massachusetts Environmental Trust, 100 Cambridge Street 20th floor, Boston, MA 0202, March 1994.

"Emission Reduction Credit Summer Demonstration Project," NESCAUM, Summer 1993, (617) 367-8540.

"Great Lakes P2 Resource Catalog," IL Haz. Waste Res. and Inf. Center, HWRIC TN94-033, February 1994, (217) 333-8940.

Pollution Prevention, EPA Should Reexamine the Objectives and Sustainability of State Programs, U.S. General Accounting Office, GAO/PEMD-94-8, January 1994, (202) 512-2900.

Environmental Design Considerations for Petroleum Refining Crude Processing Units, American Petroleum Institute, 1220 L Street, NW, Washington, DC 20005, February 1993.

Guide to Pollution Prevention Funding Organizations, Pacific Northwest Pollution Prevention Research Center, (206) 223-1151.

Ongoing Efforts by State Regulatory Agencies to Integrate Pollution Prevention into their Activities, U.S. EPA Office of Pollution Prevention and Toxics, EPA/742/B-93/002, September 1993, (202) 260-2237.

Improved Equipment Cleaning in Coated and Laminated Substrate Manufacturing Facilities (Phase I), U.S. EPA Office of Pollution Prevention and Toxics, EPA-600/R-94-007, January 1994, (919) 541-2734.

International Symposium on Pollution Prevention in the Manufacture of Pulp and Paper, Opportunities and Barriers, U.S. EPA, Office of Pollution Prevention and Toxics, EPA-644R-93-002, February 1993, NTIS Number PB94-104312, (703) 487-4650.

NEWMOA would like to thank the following people for helping to write and produce this newsletter: Mary Sherwin, Rita Lomasney, Ron Dyer, Gayle Briggs, Michael Frishman, Beverly Johnson, Susan Green, Tom Ballantine, Judy Jakobsen, Linda Shea, Tom Hersey, Jeff Potent, Richard Girasole, Gary Gulka, Sally Mansur, 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.

CALENDAR

Title	Sponsor	Date/Location	Contact
Metal Industries Pollution Prevention Focus Group Meeting	VT ANR	April 26 -- Martin-Marietta, Burlington, VT (9:00 am-12:00 noon)	(802) 241-3888
Environmental Compliance Through Process Source Reduction	NEWEA	May 11 -- Boxborough Host & Conference Center, Boxborough, MA	(603) 225-7723 or (203) 649-2469
Dry Cleaning Teleconference	VT Dept. of Public Safety	May 12 -- Waterbury, VT	(802) 241-3888
Emergency Planning and Community Right to Know Seminars	EPA Region 2	April 12 -- Buffalo, NY April 13 -- Liverpool, NY April 15 -- Mahwah, NJ April 19 -- Albany, NY April 21 -- New York, NY April 26 -- Clarksboro, NJ April 28 -- Edison, NJ April 29 -- Edison, NJ	(212) 264-1925
P2 Tech. Ass. for Paint and Coating Applications	WRITAR	Spring 1994	(612) 379-5995
A Life-Cycle Environmental Approach for Electronics Products	IEEE	May 2-4 -- San Francisco, CA	(908) 562-3878
Perc Dry Cleaners	MA OTA	May 12 -- To Be Arranged	(617) 727-3260
Demonstration of Alternative Paints and Application Methods for Industrial Users	MA OTA	May 17 --Minuteman Regional Vocational Technical School, Lexington	(617) 727-3260 ext. 674
Pit Stops: A Pollution Prevention Workshop for Vehicle Servicers	VT ANR, VT Interactive Television	May 18 -- Brattleboro, Randolph Center, Rutland, S. Burlington, Springfield, St. Johnsbury, Waterbury (5:30-8:45 pm)	(802) 241-3888
Symposium on Mercury Contamination in the Northeast	NESCAUM and CLF	May 25 -- Royal Sonesta Hotel, Cambridge, MA	(617) 367-8540
National 33/50 Program/P2 Meeting -- What's Working, What Isn't?	EPA	June 1-3 -- Arlington, VA	(202) 260-9499
1994 Seventh Annual P2 Conference	NYS DEC	June 1-3 -- Albany, NY	(518) 457-2480
Federal Facility Emergency Planning and Community Right to Know Training	EPA Region 2	June 7-9, 1994 -- Edison, NJ	(212) 264-1925
Spray Painting: Improvements and Alternatives Teleconference	Vermont ANR CAMP Environmental Services	June 8 -- VT Interactive Television sites (1:00-4:30 pm)	(802) 241-3888
Pollution Prevention Conference for Vermont's Printing Industry	VT ANR	June 21 -- Holiday Inn, Rutland, VT, (8:45 am-3:15 pm)	(802) 241-3888
Pollution Prevention and Sustainable Development: Tools for Economic Revitalization	NYC DEP	June 23, 1994 -- Manhattan, NY	(718) 595-3624

NEWMOA'S P2 PUBLICATIONS

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