

FEATURE ARTICLE

Partnerships to Promote P2

The idea of partnerships among governmental and non-governmental agencies and organizations to provide environmental assistance was promoted by EPA and other federal agencies at several recent national meetings. State and local environmental agencies have a long and distinguished history of forming partnerships with other governmental agencies and private sector groups to promote compliance and pollution prevention. The agencies formed these partnerships to expand their ability to reach their targeted audience. The relationships are sometimes formalized through written agreements or memorandum of understanding, but more often than not the partnerships are less formal and rely on the ability of the various parties to collaborate on a project. The examples of these partnerships described in the sections below illustrate the wide range of groups and institutions that state and local programs have engaged in various types of partnerships.

Connecticut

Sustainable Development

The CT Department of Environmental Protection co-sponsored three Sustainable Development workshops with its partners in Climate Wise and the Hartford Neighborhood Environmental Project during the last four months. Trainers from Sustainable Step New England led the three workshops, which featured "The Natural Step," a planning and decision-making tool first developed in Sweden in the late 1980s.

Two workshops, one held in September 1999 and the other in January 2000 focused on sustainable development in Hartford and attracted over 75 participants from community groups, neighborhood

revitalization zones, businesses, environmental justice organizations, and city officials. The other workshop, held at the state legislature in October 1999 targeted businesses and attracted a large number of the state's Climate Wise partners.

The Natural Step tool and organization started in Sweden. A cancer researcher, concerned that increasing childhood cancers were tied to environmental factors, worked with 50 other scientists to write a consensus document that lays out the underlying principles needed for sustainability.

The document is used by the world's largest manufacturers, dozens of municipalities and professional

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associations as a compass to guide their efforts towards a sustainable future. Follow-up sessions are planned with the state's business organizations and the Hartford groups.

Massachusetts

Auto Body Project Results

In 1999 Massachusetts OTA completed the CRASH Course, a partnership with the Department of Environmental Protection, the Attorney General's Office, the Regional Office of the Environmental Protection Agency, the Division of Occupational Safety, and the Massachusetts Auto Body Association. The CRASH Course defined what an inspector would consider "good faith," and it included the basics of compliance and pollution prevention.

In 1998 and 1999 the office held 9 outreach events across the state, reaching about 150 auto body shop personnel. OTA also mailed the CRASH Course to every municipal board of health in the state, and presented to local health officials at three events. The CRASH Course was delivered to every environmental inspector at DEP and EPA Region 1. A cover letter addressed to auto body shop owners and operators, signed by the agency heads of each enforcement agency, affirms that "Used properly, (the guidebook) can demonstrate to an inspector your good faith attempt to comply."

Response to the CRASH Course presentations was positive. Shops were pleased that assistance in understanding the very complex set of environmental rules had been provided. Health agents and inspectors felt that it made their job of inspection much simpler. Others noted that it would lead to greater consistency in enforcement, and to greater implementation of pollution prevention.

As part of the grant, OTA paid for an assessment of the results of the project. A survey was conducted by the Bowdoin Street Health Center in August. The results from 88 respondents showed that the CRASH Course reached a significant number of companies, and that these companies increased their implementation of toxics use reduction activities and improved their environmental compliance and safety, but there is still much work to be done. On the good side, significant

numbers of companies had recently substituted less toxic chemicals, begun recycling hazardous chemicals, changed their processes to reduce hazardous chemical use, and made improvements in their record keeping and in the routine storage and handling of chemicals. But on the other side, in many categories, more than half of responders had done nothing.

Twenty percent of responders expanded or began employee training to improve their understanding and management of hazardous chemicals after participating in the CRASH Course. Twenty one percent initiated employees training on pollution prevention, and others began or expanded training in the use of personal protective equipment.

The CRASH Course, therefore, influenced roughly a fifth of those receiving the materials or attending the workshops to actually change practices to enhance safety and the environment. About a quarter had recently taken responsible actions, but claimed to have done so on their own. In each category, slightly more than half of the auto body shops who took the time to respond to the survey had not recently made changes. The results of the CRASH Course survey are probably best interpreted as an indication that the provision of assistance can motivate many to adopt better practices. But the necessity for enforcement remains, to motivate the large group that does not respond voluntarily.

The CRASH Course materials, including the manual, workshop slides, and the final report are now available on OTA's website: www.magnet.state.ma.us/ota.

Business Environmental Network

Last year, OTA formed the Central Massachusetts Business Environmental Network (CENBEN) on an informal basis, in conjunction with the Massachusetts Manufacturing Assistance Center in Worcester. CENBEN has held monthly meetings with a regular attendance of about 12 companies. As a group effort, CENBEN has put together a matrix summarizing all environmental requirements. Recent lecture topics have included stormwater regulations and pollution prevention, preventive emergency planning, risk management planning, and persistent bioaccumulative toxins. The next meeting will cover recycling of solid and hazardous wastes.

P2 Curriculum

Massachusetts Toxics Use Reduction Institute (TURI) has been working in partnership with MA OTA, MA DEP,

and NEWMOA on an EPA-funded training curriculum designed to assist state regulatory staff in adopting new practices necessary to promote pollution prevention through their policy development, compliance efforts, and enforcement activities. In 1999, the partners delivered several of the eight training modules to Massachusetts DEP staff.

Sustainable Technologies

The University Research in Sustainable Technologies Program is a joint project of Massachusetts TURI and the Center for Environmentally Appropriate Materials (CEAM) at the University of Massachusetts Lowell, with support from the Commonwealth's Strategic Envirotechnology Partnership (STEP). The program taps the research capabilities of all five University of Massachusetts campuses to advance the investigation, development, and evaluation of sustainable technologies that are environmentally, occupationally, and economically sound. The program provides research funding to faculty on a competitive basis and encourages faculty/industry partnerships and cross-campus collaboration. Industry partners provide guidance, propose applications for new technologies, and, in some cases, evaluate and/or adopt processes and technologies from the research. Recent projects have included research on alternatives to PVC in medical applications, ultrasonic-assisted de-inking system for mixed office waste papers, and development of a building commissioning model for energy and resource efficiency for University of Massachusetts buildings. For information contact: Liz Harriman, TURI (978) 934-3387.

New Hampshire

NHPPP & UNH Partnership

The New Hampshire Pollution Prevention Program (NHPPP) has a rich history of partnerships within the state. The longest continuously running partnership is with the University of New Hampshire (UNH). For the past six years, the NHPPP and UNH have been training and placing summer interns in New Hampshire manufacturing facilities and in state and national regulatory agencies. Over 65 UNH students have completed the program, and the program hopes to add another 9 this summer.

Another successful partnership between NHPPP and UNH produces the annual pollution prevention conference held at UNH's Durham campus each spring. This year will be the eighth annual conference sponsored and developed by NHPPP and UNH. The conference committee also consists of members representing the NH DES Small Business Assistance Program, Governor's Office of Energy and Community Assistance, NH Small Business Development Center, US EPA, and WasteCap ReCoN. This diverse group creates an exciting forum for ideas, increases the outreach audience, and shares the workload.

NHPPP & NH SBDC

Two years ago, a partnership was formed between NHPPP and the NH Small Business Development Center (SBDC) with the purpose of hiring an environmental counselor. The first theory behind the partnership was that the financial counselors could refer businesses to the environmental counselor, or one-stop shopping. The financial counselors received three days of training on pollution prevention and environmental compliance. The second theory was that businesses might be apprehensive about contacting a state regulatory agency for assistance. By having an assistance provider housed in a non-profit organization, the hope was that businesses would feel more comfortable contacting the SBDC for assistance.

Mercury Outreach & Health Care Facilities

Recently, the NHPPP has created a partnership for the healthcare and mercury outreach project. The partners include: Foundations for Health Communities' NH Hospital Association (NHHA), Dartmouth Hitchcock Medical Center, Concord Hospital, WasteCap ReCoN, UNH, and EPA. The partnership between NHPPP and NHHA has been particularly beneficial for encouraging hospitals to participate in the project. The hospitals have a good working relationship with NHHA, and this relationship has increased participation in a mercury baseline survey. It is anticipated that this relationship will also encourage a good turnout for a hospital mercury reduction workshop scheduled for early in the summer.

New York

Environmental Assistance Network

In New York State several state agencies and other organizations operate a network, known as the New York State Environmental Assistance Network, for the purpose of strengthening and improving the delivery of environmental

services to NYS businesses. This network is a product of several years of effort begun in 1997 with support from the National Institute of Standards and Technology. Coordination was initially provided through the Manufacturing Extension Partnership (MEP). A planning group consisted of representatives from several MEPs, the Department of Environmental Conservation, Empire State Development, Governor's Office of Regulatory Reform, Environmental Facilities Corp., and the NYS Energy Research and Development Authority. This group met quarterly for approximately two years, developing a mission statement and project goals and tasks to support the establishment and continued operation of the network.

While the planning group developed a number of activities to meet both short- and long-term goals for the network, including coordination of partner activities, training, and collaboration, the most notable product of the network has been a directory of NYS Environmental Assistance Providers. The directory was published in August 1999 and contains contact information for over 90 entities in federal, state, and local government; colleges and universities; interstates; and trade organizations that provide compliance and technical assistance to businesses in New York State. The directory also contains detailed information on the types of services provided, industry sector expertise, and publications available from almost 40 of the listed providers. The directory is very popular and has been distributed in hard copy. It is also available on the Pollution Prevention Unit's website: dec.state.ny.us/website/ppu

Rhode Island

Reducing Hazards at Auto Body Shops

The Rhode Island Department of Environmental Management, Department of Health, University of Rhode Island Center for Pollution Prevention, U.S. Department of Labor - Occupational Safety and Health Administration, and the William M. Davies, Jr. Career and Technical High School signed a joint Memorandum of Understanding to help Rhode Island's auto body industry identify P2 opportunities and address health and safety issues in their day-to-day operations.

On-site training and off-site outreach activities help Rhode Island's auto body industry prevent environmental pollution and run safer, more cost-effective shops. The program provides training on the

most advanced, cost-saving technology available to the auto body industry. Other services include compliance assistance, blood lead testing, sampling of environmental surfaces for lead, and worker education.

DEM's Pollution Prevention Program has been working with auto body shops throughout the state to identify environmental and health hazards. Data gathered from field audits and surveys, workshops, air monitoring, sanding residue testing, and blood testing have revealed health and safety concerns that need to be addressed by voluntary compliance and regulatory controls. For instance, a 1998 study of auto body workers' clothes found sanding dust containing lead, arsenic, cadmium, chromium, and nickel on repair technicians' shirts. These metals can cause adverse health effects.

The initiative has created a self-certification program for auto body owners, spray painters and technicians. DEM, with its partners, is setting standards on training requirements, hazardous waste, air quality, occupational exposure, and P2 techniques that will allow RI's 350+ licensed auto body shops to determine their compliance status. This program is similar to the very successful Environmental Results program run by the Massachusetts DEP. It has produced significantly higher compliance rates and improved environmental business practices.

DEM has also developed a pollution prevention curriculum for auto body technicians and students that will be incorporated into course work at the William M. Davies Career and Technical High School. Highlights of the curriculum were demonstrated in a PowerPoint® presentation during a news conference at Crown Collision Center, Inc. in Pawtucket, a participating auto body shop.

The Memorandum of Understanding is an important first step toward providing Rhode Island's auto body shops with a single source of assistance to address pollution prevention, environmental compliance, and occupational health and safety issues.

EPA Region I - New England

Partnerships for P2 & Compliance Assistance

As a routine part of setting up and carrying out sector-based assistance, EPA Region 1's New England Environmental Assistance Team (NEEAT) forms partnerships with states and other agencies and industry/trade/professional associations whose membership includes a significant portion of the chosen audience. For

outreach to municipal highway department vehicle maintenance facilities, NEEAT relies on the following primary partners:

- State P2 programs
- State regulatory programs (i.e., hazardous waste, underground injection control)
- Local technical assistance programs (LTAPs) funded by the Department of Transportation to support local highway departments
- Interlocal Risk Management Trusts, the statewide insurance cooperatives that cover many municipalities
- State Army National Guard vehicle maintenance facilities
- State departments of transportation, where viewed favorably by local departments

NEEAT has found that to reach elusive audiences—small facilities that have little experience with Federal/State government, little familiarity with or sense of urgency about environmental issues, and a tendency to hide rather than step forward—the program needs to rely primarily on the partners who actually know the intended audience on a personal basis and routinely offers assistance to them. In the realm of municipal highway department vehicle maintenance facilities, these are the LTAPs. Doing outreach through them helps the program find the audience members and legitimizes the message.

EPA Region 2

DOD/State/EPA P2 Partnership

Pollution prevention (P2) partnerships have been established between the Department of Defense, EPA Region 2, New Jersey Department of Environmental Protection (NJ DEP) and New York State Department of Environmental Conservation (NYS DEC) in order to recognize and promote P2 as the standard way of doing business in Region 2. It is also an opportunity for all DOD installations in NJ and NY, large and small, to discuss military P2 initiatives with NJ DEP, NYS DEC, and EPA Region 2 in a non-adversarial forum.

Northeast States Pollution Prevention News

Northeast States Pollution Prevention News is published three or four times per year by NEWMOA's P2 Program, called the Northeast States Pollution Prevention Roundtable (NE P2 Roundtable). The publication is provided free to the Northeast states, EPA and other interested individuals and is supported by funds from EPA Region I and the Northeast states.

The NE P2 Roundtable would like to thank the following people for writing and producing this newsletter: Joe Antonio, John Bearley, Andy Bray, Stephanie D'Agostino, Danielle Fuligni, Richard Girasole, Pat Gittes, Terri Goldberg, Lin Hill, Doug Kievit-Kylar, Dennis Lucia, Rick Reibstein, Chris Rushton, Mary Sherwin, Abby Swaine, Paul Walsh. Terri Goldberg managed production of the newsletter.

The NE P2 Roundtable appreciates hearing comments and suggestions on the newsletter from readers. Write NEWMOA at the address on the back cover of the newsletter or call (617) 367-8558 x 302, e-mail: tgoldberg@newmoa.org.

Please use the form at the back of this issue to request an address change, to add your name to the mailing list, or to request an electronic version of the newsletter. NEWMOA appreciates your cooperation in ensuring that the mailing list is correct.

Program Updates

MAINE

MAINE DEP

P2000 Conference

The Office of Innovation and Assistance (OI & A) will be hosting a "P2000 Conference" on May 17, 2000 in the beautiful city of Portland. The Conference will feature guest speakers Governor Angus King; DEP Commissioner Martha Kirkpatrick; Hunter Lovins, co-author of *Natural Capitalism*; and Ray Anderson, President of Interface, Inc. and author of *Mid-Course Correction*. Not only does the P2000 Conference promise unique interaction with these wonderful speakers, a significant amount of vendor interaction is built into the design of the conference. For

more information contact: Chris Rushton, ME DEP (207) 287-7100.

Health Care Outreach

The P2 Program has recently started working with the healthcare industry on mercury source reduction efforts. For more information contact: Chris Rushton, ME DEP (207) 287-7100.

Toxic Use Reduction

The Toxic Use Reduction program is in the process of filling a much-needed vacancy. The new environmental specialist will be working primarily in a technical assistance capacity with those industries that are subject to the new state law. Maine's 1999 TUR law states that companies, rather than DEP, set reduction goals in the area of toxic chemicals used, released, and hazardous waste generated. For more information, contact: Julie Churchill, ME DEP (207) 287-7881.

Small Business

The Small Business Technical Assistance Program is in the process of filling a vacancy. The new position will be working on VOC and hazardous waste reduction efforts with the automotive repair sector since Brian Kavanah moved to a supervisory role when the OI & A reorganized last fall. Brian now supervises all three programs and will remain the SBTAP contact until the new position is filled. For more information contact: Brian Kavanah, ME DEP (207) 287-6188.

MASSACHUSETTS

MASSACHUSETTS DEP

Measuring P2 in Enforcement

Recently Massachusetts signed a Memorandum of Agreement with the Northeast states to utilize a menu of pollution prevention metrics. (See NE P2 Roundtable Update on page 17.) The menu was developed by P2 representatives from the Northeast states under the auspices of NEWMOA. Aspects of that menu were incorporated into a pilot program developed by DEP's Bureau of Waste Prevention's Central Regional office to track pollution prevention activity.

To begin the process, staff developed a worksheet to track those facilities under enforcement action that returned to compliance using P2 techniques. The worksheet consisted of familiar P2 source reduction techniques taken from the TURA program along with conservation measures. The worksheet, also included a space to calculate actual reductions in hazardous waste generation, VOC emissions, and wastewater discharges.

Staff reviewed both high and low level enforcement documents and conducted interviews with inspectors and permittees to identify facilities that implemented P2 to return to compliance. A total of 38 facilities were included in a chart designating the facility, sector, type and amount of reduction (e.g., hazardous waste, VOCs, and wastewater), P2 method, the company's incentive to choose P2, and comments.

Preliminary results of the tracking system are being analyzed. For instance, many minor corrections to operations and management procedures resulted in P2. Larger reductions came from input substitution and modernization of operations. An important aspect of the pilot survey is that it provides an indication of the value of inspecting specific industrial sectors. For instance, wood and metal coatiers yielded substantial VOC reductions. It also identified the importance of including permitting staff in the process.

For further information, contact: Anita Baltzersen, MA DEP 508-792-7650, ext. 3778.

MASSACHUSETTS OTA

Environmentally Preferable Purchasing

In 1999, after MA OTA had completed its second conference on pollution prevention in the healthcare industry, and based on conversations at a working meeting with interested parties, the office launched a Healthcare Environmentally Preferable Purchasing Network, which continues to meet on a bimonthly basis. The Network is composed of healthcare professionals responsible for facility management, purchasing, environment, safety, nursing, and other tasks; the Sustainable Hospitals Project at the University of Massachusetts, and Health Care Without Harm, an activist organization. The group has focused thus far on mercury reduction, alternatives to polyvinyl chloride plastic, management considerations, financial accounting for environmental costs, purchasing contracts, and group purchasing organizations. In the Fall of 1999 OTA

published the first issue of the *Healthcare EPP Network Information Exchange Bulletin*. The purpose of the newsletter, which swiftly found over 150 subscribers, is not just to provide useful information that OTA has found, but to enable readers to share what they know. The second issue was published in January 2000, and the third will contain solicitations to readers for contributions of information. In addition, the minutes of each Network meeting are widely distributed to an email list.

Technical Assistance

OTA teams have been visiting Chambers of Commerce throughout the state to ensure that these organizations are aware of what OTA offers. OTA staff are also participating in watershed team meetings. The Office has a full-time specialist working on municipalities, who has launched a competitive grant project with EPA. In recent months engineers have worked with companies on such topics as seafood processing, reducing volatile organic compounds (VOCs), metal coating, industrial laundering, low-VOC adhesives, separation through centrifugation, mercury reduction, University of Massachusetts environmental research, environmental management system implementation, asphalt, electric power production, wire manufacturing, and plastics. The Office has helped with air compliance, cooling water discharge permitting, exposure limits to solvents, and other regulatory matters. The Office is planning a conference on preventing the generation of acid and base wastes. Finally, OTA is soliciting interest in applications for the DOE/EPA NICE3 grant program.

Compliance Assistance

OTA has been participating in the EPA's National Advisory Council on Environmental Policy and Technology, Committee on Compliance Assistance.

Preventive Emergency Planning

OTA has been promoting incorporation of the preventive approach into emergency planning. All

THE NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION

The Northeast Waste Management Officials' Association (NEWMOA) is a non-profit, non-partisan interstate governmental association. The membership is composed of state environmental agency directors of the pollution prevention, hazardous and solid waste, and waste site cleanup programs in Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont.

NEWMOA's mission is to help states articulate, promote, and implement economically sound regional programs for the enhancement of environmental protection. The group fulfills this mission by providing a variety of support services that:

- C facilitate communication and cooperation among member states and between states and EPA, and
- C promote the efficient sharing of state and federal program resources.

NEWMOA's P2 program was established in 1989 to enhance the capabilities of the state and local environmental officials in the northeast to implement effective source reduction programs. The program is called the Northeast States Pollution Prevention Roundtable (NE P2 Roundtable). This program involves the following components: (1) NE P2 Roundtable meetings and workgroups; (2) regional P2 information resource center and databases of information; (3) source reduction research and publications; (4) training sessions; and (5) regional policy coordination and development. The NE P2 Roundtable is supported by NEWMOA member states and by grants from the EPA.

hazardous waste generators are supposed to have emergency plans, as are all users of hazardous materials. In addition, others with air toxics and petroleum storage must have plans in place to prevent accidents. EPA, OSHA, and other agencies have recently united to promote the integration of all of these plans into one plan. OTA received a grant from EPA to demonstrate the integrated plan. OTA has used the opportunity to promote the concept of combining pollution prevention and emergency planning. OTA calls it "Preventive Emergency Planning."

Last fall, OTA staff presented the idea and the sample plans they have developed to the State Emergency Response Commission, and to SERC representatives from all of the New England states. As a result, OTA was invited

to address the Springfield Local Emergency Planning Committee, reaching facilities that use large quantities of hazardous chemical use. OTA is currently planning a follow-up event for the cities of Springfield, Holyoke, and Chicopee, at which one of the model companies will present its plan and OTA will cover preventive risk reduction activities generic to all chemical storage and handling.

OTA staff also made a presentation on the incorporation of P2 into emergency planning at the National Pollution Prevention Roundtable (NPPR) meeting in November, and will participate in a national training event for local officials at the annual NPPR conference in Boston in March. Drafts of case studies are being reviewed by the companies, and a preliminary final report on the project has been submitted to EPA. OTA is developing articles for publication and pursuing other opportunities to present the ideas and results of this project.

Schools

In 1999, MA OTA produced a draft guidance for schools on implementing an environmental management system. Office staff have been promoting the system approach in a number of towns. The impetus for this work is a result of participation in a Multi-Agency Task Force on Environmental, Health and Safety in Schools, (MATS), which OTA helped to form in 1997. MATS, a forum for agency officials to coordinate related information and work, has promoted the importance of institutionalizing efforts to address Environmental, Health and Safety problems, as opposed to reacting to each issue individually, or on a crisis basis. OTA's guidance recommends a systematic, comprehensive, preventive approach that flows from the top down, involves all levels of staff and stakeholders, and realizes savings.

Integrated Pest Management

OTA has participated as an advisory member of the Department of Food and Agriculture's (DFA) Integrated Pest Management (IPM) Council. The Council's purpose has been to seek the coordination of the perspectives and activities of those interested in the IPM approach. The goal of IPM is to use nonchemical instead of chemical methods when feasible to control pests, and when chemical methods are used, to reduce exposure and risk to the minimum necessary. OTA has assisted DFA by producing draft principles of

organization for the group, which were adopted after some modification. OTA also presented options for incorporation of the group, and developed a draft bill to establish an IPM certification system, including verification of IPM procedures.

Insurance Project

OTA approached insurance companies offering coverage for environmental damage and proposed a public announcement of policies to reduce costs for companies that have implemented pollution prevention planning. A positive reaction from a number of companies has resulted. OTA is now engaged in ensuring that the solicitation to companies in this area is complete, so that any company wishing to be included in the public announcement will have the opportunity to join in this effort.

For more information contact: Rick Reibstein, MA OTA (617) 626-1083.

MASSACHUSETTS TURI

Spring Conference

A two-day Continuing Education Conference for TUR Planners and interested parties will be held April 25 - 26 at the Royal Plaza Hotel and Trade Center in Marlboro, MA. More than 20 presentations, poster sessions, and half and full-day workshops will be offered. Sessions will include: Energy Efficiency, Adjustable Speed Drives; TUR in the Plastics Industry; TURA Web Resources; TUR Implementation: Managing Change; Packaging Reduction; EMS Elements and Implementation; Lead-Free Electronics; Indicators for Sustainability; Process Design and Control Technology; Cooling Towers, Water Demineralization and Chemical Treatment; Pollution Prevention and Integrated Contingency Planning; Software Tools for TUR; and Solvent Substitution. Continuing Education credits are offered for the sessions. For information contact: Anne Basanese, MA TURI (978) 934-3144.

New Cleaning Science Journal

Carole LeBlanc, TURI's Surface Cleaning Laboratory Manager, has been named Editor-in-Chief of a new scientific journal. Entitled, *The Journal of Cleaning Science*, the premiere issue is scheduled for publication in March 2000 in a special edition of Vicon Publishing's A2C2 (*The Journal of Advancing Applications in Contamination*

Control). The second issue is scheduled for release in September 2000.

Interested parties can obtain copies of the first three articles or obtain Guidelines for the Submission of Articles, by calling (978) 934-3249 or e-mailing leblanchom@aol.com. The articles include: "The Search for Safer and Greener Chemical Solvents: A Proposed Tool to Support Decision-Making" by Carole A. LeBlanc as a Doctoral Candidate in Environmental Studies, Erasmus University, Rotterdam, the Netherlands; "Simple Solutions for Solvent Substitution in Surface Cleaning" by Jason P. Marshall, Manager of Laboratory Testing, Surface Cleaning Lab, Toxics Use Reduction Institute; "Standardizing Test Methods in Chemical Cleaner Evaluation" by Nicole E. Vayo, Undergraduate Co-op Program, University of Massachusetts Lowell, Chemical Engineering Department.

Three New Web Resources

TURI has developed three new web resources to assist the public in learning about toxics in the community and in reducing toxic chemical use. The new websites include:

Toxic Chemicals in the Community:

www.turi.org/community. This site features models developed by Massachusetts municipalities and community organizations over the last five years under TURI's Toxics Use Reduction Networking (TURN) Grants Program. Visitors to the site can learn about ways communities have worked to reduce toxics in households, schools, lawns, municipal buildings and grounds, DPWs, wastewater treatment plants, and local businesses. The site also provides general information about toxic chemicals, laws, and links to other valuable resources. For more information contact: Eileen Gunn, TURI (978) 934-4343.

TURA Data: www.turi.org/turadata. TURA requires industries to report the use and release of certain toxic chemicals and to develop plans to reduce the use of those chemicals. This site provides access to public information collected from companies under TURA in a user-friendly format. For more information contact: Heather Tenney, TURI (978) 934-3260.

Greenlist: www.turi.org/greenlist. This is the webpage of the Institute's P2 research library and allows users to search the online catalog or email the librarian with

requests. The list of publications includes information on toxic chemicals, toxics use reduction or pollution prevention, environmental management, related governmental publications, policies, and legislation. Additionally, Greenlist contains numerous materials on community issues, public health, and sustainability. TURI's library is located in new quarters on the North Campus of the University of Massachusetts Lowell, Pinanski Hall, Room 203 and is open Monday through Friday, 9 a.m. to 5 p.m. For more information contact: Mary Vidal, TURI (978) 934-3390.

For more information contact: Patricia Gittes, MA TURI (978) 934-3129.

NEW HAMPSHIRE

NEW HAMPSHIRE DES

Mercury Reduction Activities

The NHPPP has been working closely with two New Hampshire hospitals to reduce or eliminate mercury from their waste streams as well as phasing out mercury containing products. This work included conducting on-site visits, creating outreach material, and giving presentations to hospital staff. The NH Mercury Reduction Survey was completed by 21 NH hospitals in the Fall and the survey can be viewed at www.des.state.nh.us/nhPPP/healthcare_4.htm. The NH hospital association (NHHA) and NHPPP are organizing a mercury reduction workshop for NH hospitals on June 8, 2000. A summary of the survey's results will be presented at this workshop. The NHPPP also created a new web page, entitled "Mercury Reduction." The web page includes information on mercury reduction in healthcare, the mercury task force (see below), and the hospital workshop. Check it out at www.des.state.nh.us/nhPPP. For more information, contact Lin Hill, NH DES (603) 271-2902 or lhil@des.state.nh.us.

NH Mercury Task Force

Governor Jeanne Shaheen established the NH Mercury Reduction Task Force in the fall of 1999. The Task Force is a multi-stakeholder group designed to provide input and direction on the state's mercury reduction efforts. The Task Force is chaired by NH DES. Under the umbrella of the Task Force, four workgroups have been established: Public Outreach and Education, Electricity Generation, Municipal Waste Combustion, and P2 in Healthcare/Medical Waste Incineration. P2 Staff are

actively involved in both the Task Force and the workgroups. For more information contact: Stephanie D'Agostino, NH DES (603) 271-6398 or sdagostino@des.state.nh.us.

Mercury Legislation

At the request of NH DES a bill was introduced in the 2000 NH legislative session to address mercury-containing products. This bill is based on the model legislation developed by the NEWMOA Mercury Workgroup, and contains provisions for phasing-out certain products, banning certain uses of mercury, banning the disposal of these products in landfills and incinerators, and requiring manufacturers to develop labeling and collection programs. (See NE P2 Roundtable Update on page 16.) Currently, the NH House Environment and Agriculture Committee are considering the bill. For more information contact: Stephanie D'Agostino, NH DES (603) 271-6398 or sdagostino@des.state.nh.us.

EMS Projects

DES' Voluntary EMS Program (sometimes known as the ISO 14000 project) continues to be active. Five companies, all located in the NH Seacoast area, are now actively implementing their EMS programs. DES training will cover Measuring and Monitoring, and Management Review in early 2000, which will fully launch the companies.

DES' project is part of a national research effort into the effectiveness of EMS programs. Information on the design of three of the companies' EMS' are being sent to the National Database on EMS at the University of North Carolina. Baseline data on these three companies was submitted in early 1999. Baseline data on the other two companies should be submitted this Spring. More information on the national research into EMS' and their effectiveness can be found at <http://www.eli.org/isopilots.htm>. For information contact: Bob Minicucci, NH DES (603) 271-2941 or minicucci@des.state.nh.us.

P2 Conference

The Eighth Annual NH P2 Conference will be held on Monday, April 24, at the UNH campus in Durham. This year's theme is "Improving the Environment While Increasing Profit." Conference topics will include regulatory changes, company case studies, ISO 14000,

energy issues, environmentally preferable products, mercury management issues, OSHA risk reduction, and finance/accounting software. To register, visit www.learn.unh.edu/pollution/index.html.

Marine Engines

DES has spearheaded a regional coalition to work jointly to encourage the purchase and use of low polluting marine engines by New England states and the boating public in the Northeast. The coalition includes representation from the six New England states plus New York, the Northeast States for Coordinated Air Use Management (NESCAUM), the New England Interstate Water Pollution Control Commission (NEIWPC), and the National Marine Manufacturers Association (NMMA). Participation also includes some large engine manufacturers and the NH Marine Trades Association (NH MTA). According to the NMMA, this regional coalition is the first of its kind in the country to bring states, environmental groups, and the regulated industry to the table to facilitate such an effort.

The NH MTA and DES have recently signed a voluntary agreement to encourage the accelerated phase-in of low polluting marine engines prior to the EPA 2006 mandate. Dealers in NH are being invited to sign onto the agreement.

For more information contact: Stephanie D'Agostino, NH DES (603) 271-6398, S_dagostino@des.state.nh.us.

NEW YORK

NEW YORK STATE DEC

Strategic Goals Program

NYS DEC staff continue to actively participate in the EPA Strategic Goals Program (SGP) for metal finishers. The Agency is currently finalizing a *NYS SGP Framework Document*, which provides a paper that can be signed by all parties and officially establishes the SGP framework in New York State. Concurrently, the NYS SGP is developing an *Operating Plan and Program Document for New York State*, which will provide details of the NYS SGP. Plans are to complete these two documents by June 2000, and to begin working with the 14 participating metal finishers in achieving full compliance and goals attainment.

Pollution Prevention staff are currently developing an outreach program for the metal finishing industry. Environmental Compliance/P2 and Self-Assessment manuals are being developed and workshop have been scheduled. The dates of these workshops are: April 25, Queens; April 26, Long Island City; May 2, New Paltz; and May 9, Rochester.

Dairy Farm Mercury Manometer Project

NYS DEC staff in cooperation with the NYS Department of Agriculture and Markets have developed a survey to be used by milk inspectors to identify farms that have mercury manometers throughout NYS. Inspectors will begin using the surveys by April and complete their collection by the Fall. The project will also evaluate replacement alternatives and their costs.

TRI Reporting

New York State's Toxic Release Inventory (TRI) 1998 Report is now available, showing an 11 percent reduction from core industries since 1997. In 1998 however, 106 facilities from newly added industry groups caused total TRI releases to the environment to be 107 percent above the 1997 total releases of 29.90 million pounds. The 106 facilities were responsible for over 57 percent (about 37 million pounds) of the 1998 total releases to the environment.

P2 Conference & Governor's Awards

The 13th Annual New York State P2 Conference will be held in Syracuse on September 19 - 21, 2000. The Governor's Awards applications are now available, and the deadline for applying is June 30, 2000. NYS DEC has added PBTs as an area of emphasis for projects for this year's awards program. Awards will be presented at the Conference.

Electronics

The Pollution Prevention Unit initiated an outreach program for the Electronics and Computer Industry. Environmental Compliance/P2 and Self-Assessment manuals have been developed. The Compliance/P2 manuals summarize air, water, and solid and hazardous waste regulations as they pertain to the electronics industry with references to pollution prevention techniques. The Self-Assessment provides a checklist of P2 measures that address materials handling and storage; printed wiring board manufacturing;

semiconductor manufacturing; and CRT de-manufacturing and material recovery. These documents are available from the Unit and are also downloadable on the Unit's website: www.dec.state.ny.us/website/ppu. P2 Workshops for the Electronics Industry were held in November 1999 in Binghamton, Rochester, Bethpage, and Albany.

Pulp & Paper & Marinas

NYS DEC is developing outreach programs for the pulp and paper and the marina industry. Manuals will be developed and workshops will be held in 2000-2001.

Small Business Home Page

The Department is developing, as part of the agency's website, a home page for small business that contains links to all of the agency's activities and publications that would be of interest to small businesses.

Health Care Outreach

Staff have been working with EPA Region 2, the NYC Department of Environmental Protection, the NYS Department of Health, several hospitals, and environmental organizations to develop an outreach program to reduce releases of mercury and dioxins from health care facilities. A seminar for VA Hospitals in NYS will be held at the EPA Region 2 office on February 22. The Unit has published a manual for health care facilities that can be obtained from the Unit or the website.

PPU Changes

The Pollution Prevention Unit has undergone several staffing changes. The Project Management and Coordination Section has been renamed the Implementation & Evaluation Section, Dennis Lucia remains the section chief. Bob McCarty is the State Agency Environmental Audit Team leader (SAEA). Michael Flynn joined the SAEA team. Cheryl O'Brien is the Technical Assistance and Outreach Team leader. Dottie O'Hare, Sharon Rehder, Tanya Lahr and Carlos Montes have been named Special Project Coordinators.

For more information contact: Dennis Lucia, NYS DEC (518) 485-5857, djlucia@gw.dec.state.ny.us.

Vermont

VERMONT DEC

New Web Site

The Environmental Assistance Division (EAD) has developed a presence on the internet. Replete with links to both internal and external sites, the EAD web site provides visitors with resources for environmental compliance assistance, help in identifying necessary environmental permits, and recommendations and resources for practicing pollution prevention, toxics use reduction, and resource efficiency. A calendar of upcoming events, entire guides and other publications, fact sheets, on-line progress and reporting forms, grant information and information about voluntary technical assistance and business recognition programs are available at the site.

Outreach to Manufacturers

A First Place Finish: An Environmental Guide for Vermont Wood Finishers, an environmental compliance and pollution prevention guide for small and medium-sized wood finishers, is now completed and ready for distribution. Two workshops intended to highlight the most important elements and aspects of the guide are now scheduled for April.

Nearly completed is a compliance guide for metal fabricators and machine shops. For more information contact: Paul Van Hollebeke, VT DEC (802) 241-3629.

Report on EAD Progress

The Vermont Legislature is in session and EAD submitted its third Biennial Report to the Legislature on Pollution Prevention Planning. Some of the key findings were:

☐ Since 1992, the number of facilities required to submit P2 plans has decreased from 221 to 126.

☐ Since 1992, the number of Class B generators of hazardous waste has gone from 166 to 80.

☐ From 1992 to 1998, there has been a 38 percent reduction in the total amount of hazardous waste generated by Vermont facilities.

The report will soon be available for review at the EAD web site. For more information contact: Greg Lutchko, VT DEC (802) 241-3627.

Mercury Waste Reduction

The January 2000 report of the Advisory Committee on Mercury Pollution is now available. Reports on the progress of several initiatives provide detailed descriptions of accomplishments to date. A sampler includes the following:

☐ Implementation of the mercury product labeling law served to identify more than 2000 potential manufacturers of mercury-added products. In 1999, approximately 130 manufacturers submitted labeling plans or requests for alternative labeling

☐ The School Science Lab and Mercury Clean-Out Project has enrolled 25 (of a targeted 185) schools in the program. Of the 11 schools where the clean-outs have already been conducted, EAD has collected an estimated 70 pounds of mercury. A second round of school workshops is scheduled for March

☐ The Department of Agriculture has begun an effort to secure funds to support a dairy farm mercury manometer exchange program. There are 1,760 active dairy farms in the state, 85 of which are determined to have a mercury manometer, with one pound or more of mercury in each.

For more information contact: Gary Gulka, VT DEC (802) 241-3626 or the Vermont Mercury Education and Reduction web site at:
<http://www.anr.state.vt.us/dec/ead/mercury/merc.htm>.

Environment 2000

Environment 2000, the latest assessment of the quality of Vermont's environment was released with the opening of the legislative session. With Environment 2000, the Agency of Natural Resources again presents environmental indicators meant to offer a state of the state's environment, but it does so by emphasizing the importance of entering a new millennium with a sense of environmental optimism. Using the stories of everyday Vermonters working in businesses, schools and communities throughout the state, the report describes how Ecological Solutions are found for environmental problems ranging from trucking-related air pollution to the lead poisoning of loons. For copies contact: Doug Kievit-Kylar, VT DEC (802) 241-3626. The report will soon be posted at: <http://www.anr.state.vt.us/>.

Environmentally Preferable Products

The EAD is currently working with the Waste Management Division, the state Purchasing Divisions, State Building, Tourism and Marketing, the VA Hospital, and others to revise the standards drafted for procuring environmentally preferable cleaning chemicals and supplies.

Revised standards will be used to structure a request for proposals (similar to the one that was done in 1996), which will be sent to vendors sometime in later March. For more information contact: Gary Gulka, VT DEC (802) 241-3626.

EPA REGION I-New England

Outreach to Municipal DPW Garages

The EPA Region 1 New England Environmental Assistance Team (NEEAT) is developing, in partnership with the state P2 programs and others, workshops, articles, fact sheets, and on-site assistance visits to Municipal Department of Public Works (DPW) garages in MA, NH, and VT and is planning to expand to other states.

Telephone follow-up indicates that audiences who attended the MA, NH, and VT series of workshops are now implementing P2 and compliance improvements in their garages. In Rhode Island, NEEAT held an "Expecting Inspections" compliance/P2 workshop on October 28. 55 DPW representatives (i.e., directors and mechanics) attended. Evaluations were extremely positive, and NEEAT received several requests for on-site assistance at the end of the workshop. Planning for workshops is underway in CT and ME. A follow-up program in MA includes grants to municipal garages to procure equipment to enhance P2 and compliance. For more information contact: Abby Swaine, EPA Region 1 (617) 918-1841.

Strategic Goals Program

NEEAT offered a series of six workshops designed to help metal finishers meet their Strategic Goals commitments under the Common Sense Initiative (CSI), achieving compliance through P2 techniques where possible. The P2 Internship Program at UNH continues to support CSI by providing engineering students to metal finishing companies for 10 weeks of on-site assistance in signing up for and implementing P2/compliance under the Strategic Goals program. For more information contact: Linda Darveau, EPA Region 1 (617) 918-1718.

Storm Water Phase II

With the adoption of the Phase II storm water regulations this Fall and an associated phase-out of the ISTEA exemption for small municipalities, Department of Public Works (DPW) highway garage operations, such as vehicle washing and other DPW industrial and construction operations, will have to prevent storm water contamination in the near future. NEEAT plans to provide three state-wide workshops in MA, NH, and ME this Spring/Summer to enable municipal DPW and Garage managers to understand the requirements and plan for the funding and training that will be required to achieve compliance. NEEAT will offer more local workshops to first-line managers and staff as the compliance deadlines (beginning in March 2001) approach. For more information contact: Jack Healey, EPA Region 1 (617) 918-1844.

Municipal Energy Efficiency

NEEAT is working with DOE, NEIWPC, and a cross-state work group to bring follow-up sessions of the Department of Energy's workshop on Pump Optimization and Motor Efficiency to more parts of New England. These workshops provide detailed technical information on how to retrofit or replace existing aging pump systems and motors to achieve (sometimes enormous) energy savings. As most drinking water and wastewater treatment plants are reaching the end of their design life, EPA needs to give communities information on energy-efficient pump and motor alternative before they invest anew in less efficient systems, or make costly repairs to old, inefficient motors. For more information contact: Jack Healey, EPA Region 1 (617) 918-1844.

Climate Change

Tufts University has begun a Tufts Climate Initiative to meet Kyoto Protocol global climate change greenhouse gas reduction targets. Tufts University and Boston University recently secured a \$900K grant to examine the potential impacts of climate change on infrastructure systems and services (e.g., flood control, water supply, drainage, wastewater management, solid and hazardous waste management, energy, transportation, communications, and recreational facilities) of metropolitan Boston and develop options for preventing or mitigating these effects. Elsewhere in New England, Maine has started a ClimateWise Business Partnership.

The Assistance and Pollution Prevention Division's (A & P2) Tread Lightly Program has succeeded in reducing the amount of CO₂ EPA produced last quarter through energy conservation and materials conservation measures; EPA is

also working with GSA to try to purchase green power for the new Region 1 Lab in Chelmsford. For more information contact: Cynthia Greene, EPA Region I (617) 918-1813.

Integrating P2 & Compliance Assistance

NEEAT is participating in EPA's National Compliance Assistance Advisory Committee and Workgroup (a FACA Committee) to help insure that Agency's national plans related to Compliance Assistance represent regional reality and P2 as a means to achieve compliance. For the same reasons, EPA Region I is also participating in an OECA-led workgroup that is making recommendations about future strategies for compliance assistance. For more information contact: Mary Dever, EPA Region 1 (617) 918-1717.

Colleges/Universities

NEEAT convened a focus group of 63 environmental, health and safety staff from colleges and universities in New England on November 8 in Boston. Participants created a list of tools and services that would help them improve their environmental performance. The strategy NEEAT is developing to address these needs includes a web page, workshops, and a challenge/recognition program. For more information contact: Peggy Bagnoli, EPA Region 1 (617) 918-1828.

Mercury Challenge

18 NE hospitals applied for recognition under NEEAT's Mercury Challenge EPA Partners for Change Program. For more information contact: Janet Bowen, EPA Region 1, (617) 918-1795.

Marinas

The Small Business Assistance Team is getting into the sector-based compliance/P2 assistance business in planning outreach for the marina sector in partnership with state, federal, and private small business assistance providers. For more information contact: Larry Wells, EPA Region 1 (617) 918-1836.

Ski Resorts

In January, A&P2 staff participated in the third of a series of four meetings with the National Ski Area Association (NSAA). Participants included ski area

presidents, consultants, and environmental groups, and focused on an environmental charter drafted by NSAA. For more information contact: Cynthia Greene, EPA Region 1 (617) 918-1813.

P2 Template

A no-cost workshop on the P2 Template will be offered at the National P2 Roundtable's Spring meeting in Boston on March 21 from 1 to 4 p.m. The workshop will feature presentations by those who have conducted technology analyses using the template, information on how NPPR and other organizations (including New England's 6-state work group!) are using the Template, input from vendors and users on data availability and quality, and discussion on future use of the Template. NEWMOA, MA STEP, and NEEAT are organizing the session. For more information contact: Abby Swaine, EPA Region 1 (617) 918-1841.

Environmental Management Systems

About 100 participants from New England businesses and government attended "Meeting the Challenges in Environmental Management System (EMS) Implementation -- A Practical Workshop for Business and Industry," the sixth in a series of workshops on EMS implementation, on February 1 in Sturbridge MA. Almost 50 people were turned away because the seminar was full. Speakers included ISO registered companies in the local business community and local consulting firms with extensive experience providing EMS services to local businesses. The next workshop is planned for later this year. For more information contact: Marge Miranda, EPA Region 1 (617) 918-1825.

Assistance & P2 Annual Report

Hot off the presses, the Annual A & P2 report will be distributed to all of its partners, the state P2 programs foremost among them. For more information contact: Kira Jacobs, EPA Region 1 (617) 918-1817.

EPA Region 2

P2 Strategy

EPA Region 2 is in the process of finalizing Phase 2 of its Strategic Plan. The P2 Team wrote the pollution prevention portion, under Goal 4 Preventing Pollution and Reducing Risk in our Homes, Communities, Workplace, and Ecosystem. The Toxic Release Inventory (TRI) was

the primary data source used to assess P2 progress for Region 2 states. Amounts of waste managed and production rates served as indicators. Energy Star and WasteWi\$e statistics were also cited for reductions in the Region. The strategy identifies trends and priorities for P2 and will be finalized in a few months.

PPIS 2000

Region 2's FY2000 Pollution Prevention Incentives for States (PPIS) grant program is focusing on three priority areas: Persistent, Bioaccumulative and Toxic Chemicals (PBTs), Urban Air Toxics, and Design for the Environment (DfE) industry sectors, including garment care, auto, printing, and metal finishing. The application deadline is March 15.

New EPA Region 2 P2 Website

EPA Region 2 established a new P2 webpage: <http://www.epa.gov/region02/p2/p2home.htm>. This site includes information on upcoming P2 workshops/conferences, EPA's P2 programs, grants and initiatives, EPA's SEP Policy, and links to various P2 resources by industry sector that can be used by the regulated community to reduce their pollution at the source. This site will also be useful to EPA personnel, other regulatory agencies, and technical assistance providers in promoting P2 as the preferred approach to environmental protection.

P2 in New York Health Care

Region 2's P2 Team, RCRA, and the Compliance Assistance program are coordinating efforts to develop pollution prevention/mercury reduction workshops and follow-up metrics for hospitals throughout the state of New York. Two focus group meetings have been held to exchange information on the status of mercury use/management in the health care field, and to develop a strategy for mercury reduction and other pollution prevention/PBT-related issues in New York. Stakeholders include state agencies and associations and individual hospitals. The program is shaping up to potentially include teaching tours of model institutions, and a regional recognition program. The next focus group meeting is February 24. This effort is aimed toward advancing the goals outlined in the EPA/American Hospital Association Memorandum of Understanding signed in 1998.

American Tour de Sol

The P2 Team will be involved in the 2nd NESEA American Tour de Sol Event. The NESEA American Tour de Sol is a comprehensive year long educational program that culminates in a high-profile road-rally event for electric and hybrid-electric vehicles. The starting ceremony for the event is scheduled for May 14, 2000 at the South Street Seaport Marketplace, NYC. Region 2's role in the past included support for development of educational resources that use transportation, energy, and the environment as a theme and by participating in the planning committee.

Metal Finishers Workshop

A three day metal finishers workshop with the Partnership for Environmental Training and Education (PETE), University of Puerto Rico (UPR), and Association of Electroplaters and Surface Finishers (AESF) was held last March.

Auto Repair Outreach in Puerto Rico

Region 2 awarded a \$300K PPIS grant to the Solid Waste Authority of Puerto Rico to conduct P2 training and assessments over a multi-year period of the 5,000 licensed automotive service stations in Puerto Rico. The Solid Waste Authority is coordinating with UPR and national PETE to conduct workshops on P2 in this sector. Region 2 is prepared to stay the course until all 5000 stations have been covered by the P2 assessments and training. Metrics will be tracked, including volumes of waste oil not flushed into drains and gallons of solvents reduced from engine and tool cleaning. The Puerto Rico PPIS grant is the start of leveraging funds and programs to effect total sector coverage in a jurisdiction.

Reducing Emissions from Scrap Metal Processing

NJ DEP is conducting a separation process for mercury-containing components of scrap used by secondary iron and steel manufacturing for air emission reductions. The separation process is also expected to reduce cadmium and lead containing components as well as PCB-containing components. A second component of this project is testing stack emissions in aluminum smelting operations to determine if this industry has similar problems with these PBT pollutants. A report on the auto shredders and dismantler source separation process will be prepared describing the waste composition, separation guidance, and recommendations. For the aluminum smelting industry, a stack test report will compare aluminum smelting to other source categories in the New Jersey mercury inventory and make recommendations based on the data.

Automotive Mercury Switch Collection Project

NYS DEC is conducting a mercury reduction project, focusing on the collection and recycling of mercury switches from the hoods and trunks of automobiles. The project will prevent an estimated 500 pounds of mercury from entering the Great Lakes Basin mostly from crushing and shredding operations at scrap and salvage yards. The automotive mercury switches will be voluntarily removed and collected from vehicles by scrap and salvage yards through participation at household hazardous waste collections and as a voluntary service provided by auto dealerships. The goal is to remove 250,000 switches from vehicles in the major population centers of New York State's portion of the Great Lakes Basin.

P2 For Compliance & Enforcement Officers

Last April, the Compliance and Enforcement Officers from EPA Region 2 and the state of New York attended the above training course that was sponsored by EPA Region 2 in conjunction with the National Enforcement Training Institute. The purpose of the course was to provide attendees with a basic understanding of pollution prevention concepts and to discuss methods by which pollution prevention can be incorporated into compliance and enforcement activities.

Federal Facility Environmental Workshop

Last March, EPA Region 2 co-sponsored a Federal Facility Environmental Workshop on Implementing Pollution Prevention with EPA Region 3 and the U.S. Coast Guard Training Center on Cape May, New Jersey. This two day workshop was designed to help civilian federal agencies comply with Executive Order 12856, which requires federal facilities to set an example for the rest of the country and become the leader in applying P2 to daily operations, purchasing decisions and policies. In particular, this workshop showed environmental managers at federal facilities how to perform a P2 assessment, develop a P2 plan, and implement an effective P2 program at their facilities.

EPA's SEP Policy

EPA Region 2 has developed a plain-English brochure summarizing EPA's Supplemental Environmental Projects (SEP) Policy. This brochure

will be issued with enforcement actions and distributed during seminars/workshops to encourage businesses to include SEPs with settlement agreements. Under this policy, SEPs involving pollution prevention techniques are preferred over other types of reduction or control strategies.

Environmental Management Systems

A 1½ day course, designed for environmental regulatory agency inspectors and enforcement personnel, on Environmental Management Systems (EMS) is scheduled for March 7 - 8. The session provides information on the definition of an Environmental Management System, EMS standards and guides, how to conduct EMS evaluations as part of compliance inspections, and how to develop EMS provisions for enforcement settlement agreements based on evaluation findings. Learning will be reinforced through group discussions and exercises. If interested in attending, register through the National Enforcement Training Institute at http://es.epa.gov/oeca/oceft/schedule_net.html.

For more information contact: Danielle Fuligni, EPA Region 2, (212) 637-3584.

NORTHEAST STATES P2 ROUNDTABLE

Mercury in Waste Model Legislation

In November 1999 NEWMOA released, "Draft Mercury in Waste Model Legislation: Discussion Document" in anticipation of a series of public meetings that were held in December. The intent of this draft model legislation is to help address the Conference of New England Governors and Eastern Canadian Premiers Mercury Action Plan goal of "virtual elimination of the discharge of anthropogenic mercury into the environment." The Mercury Action Plan was adopted by the Conference in 1998.

The comprehensive draft model legislation proposes to establish a process for the states to examine and implement methods to reduce or recycle sources of mercury in consumer products, which may end up as waste. The mercury-added products that could be affected by the draft model include mercury fever thermometers and other measuring devices and certain switches and electronic products.

The document provides a framework to focus discussion on the development of more consistent approaches to managing mercury-containing products and wastes in the Northeast. These approaches focus on notification; product phase-outs and exemptions; product labeling; disposal bans; collection and recycling programs; and a mechanism for interstate cooperation.

Public meetings on the draft discussion document were held in Massachusetts and New Hampshire. Approximately 125 people participated in these meetings and provided valuable insights and suggestion on the draft model legislation. The NEWMOA states are now reviewing the verbal and written comments that various groups and individuals submitted and considering suggested changes to the model. NEWMOA plans to submit a revised version of the draft to the Regional Mercury Task Force for their consideration this Spring. The Association will then work with the Task Force to prepare a set of recommendations for the New England Governors on the model in the late Spring and early summer.

A copy of the full discussion document can be obtained at the Mercury Section of the Pollution Prevention area of the NEWMOA Website (WWW.NEWMOA.ORG). To access the Mercury section directly, go to <http://www.newmoa.org/prevention/mercury>.

States Agree to Implement P2 Metrics Menu

In the fall of 1999 the Directors of the State Pollution Prevention Programs in the Northeast agreed to implement a menu of pollution prevention metrics. This menu was developed during 1999 in an attempt to forge an agreement on a core set of program activity and outcome metrics that the states could implement through a coordinated effort. The menu includes metrics on the following activities:

- C assistance activities, including onsite assessments training programs, information dissemination, awards and recognition programs, partnership activities, and grants
- C regulatory integration activities, including training and enforcement.

The menu also covers a range of outcome measures that focus on changes in behavior as well as environmental results. The environmental results include pounds of waste reduced, gallons of water

saved, pounds of air pollutants reduced, energy and water savings, and others.

A copy of the draft P2 metrics menu can be obtained on the web at the Hot Topics Section of the Pollution Prevention area of the NEWMOA Website (WWW.NEWMOA.ORG). To access the Hot Topics section directly, go to <http://www.newmoa.org/prevention/hottopics.cfm>.

NEWMOA Website Launches

NEWMOA's website went online last fall. This site provides valuable information for the environmental agencies in the Northeast. In the Pollution Prevention section, NEWMOA has included interactive databases providing contact information for programs, areas of expertise, types of services, and environmental assistance program activities that are taking place in the Region. For local, state, and Federal government employees specializing in Waste Site Cleanup efforts the website includes a private searchable database of fellow staff members with experience using innovative site characterization and remediation technologies.

To assist with information needs, the website has a "Rapid Response" form that routes requests directly to NEWMOA's librarian (see P2 Publications section below for more information). A new feature of the website is the "Mercury Reduction-Programs Database." If an organization has a mercury reduction program, please visit the database and share the experiences with others by completing a data input form. All of this information, as well as many of NEWMOA's documents, can be found at www.newmoa.org.

P2 in Permitting Project

NEWMOA is collaborating with the Northeast States for Coordinated Air Use Management (NESCAUM) on a Pollution Prevention in Permitting Program (P4). The purpose of this project is to facilitate the development of flexible, P2-oriented Title 5 air permits at manufacturing facilities in the region. The P4 effort in the Northeast is part of a national EPA reinvention program focused on air permitting.

P4 permits are designed to replace pipe by pipe permits by creating a single permitted cap on VOC, Hazardous Air Pollutant, and other emissions at a facility. The permit

provides increased flexibility to the facility because they can make changes in their manufacturing process without having to apply for a permit modification as long as the changes do not result in an exceedance of their emissions cap and have been anticipated in their P4 permit. The permits create an incentive for P2, particularly for facilities that are interested in expanding their operations. CT DEP has been working on a P4 permit for the past few years for Cytec, and hopes to issue the permit this year.

NEWMOA and NESCAUM have formed a P4 Workgroup that has been meeting to develop a clear understanding of the project and to begin to identify possible P4 facilities. The project is currently doing outreach to permit writers and to potential manufacturers in the region.

Compliance & P2 for Printers CD-ROM

NEWMOA will be releasing a CD-ROM that covers compliance and pollution prevention information for lithographic printers in March. The CD-ROM includes RCRA, air, water, and other compliance requirements for the NEWMOA member states – Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont as well as New Jersey. A P2 Print Workgroup of state representatives has been managing the development of the CD-ROM for more than two years. The information on the CD-ROM was gathered from printed materials and audio visual products that were developed by the participating states, EPA, and other assistance programs.

Copies of the CD-ROM will be distributed to the participating states and the regional trade associations so that they can send them to the lithographic printers in the region this Spring. Copies will also be available from NEWMOA.

For more information contact: Terri Goldberg, NEWMOA (617) 367-8558 x302 or tgoldberg@newmoa.org.

P2 PUBLICATIONS

NEWMOA has a part time librarian, John Bearley on staff to help address requests for information on a wide variety of waste and pollution prevention questions. He has access to numerous databases and

the extensive library of P2 materials available at the NEWMOA office. He compiled the following list of new P2 documents, which are part of NEWMOA's P2 Resource Center. If readers would like some assistance with answering questions, tracking down information, or searching the web, contact John (617) 367-8558 x305 or use the Rapid Response form at: www.newmoa.org/about/library.cfm

Consumer Labeling Initiative (CLI): Fact Sheet

EPA/742/F-98/022 (2pp) November 1999. This document, newly updated in 1999 to include the latest data, will serve as a general information source for the CLI. It includes the objectives, background research process, and projects underway.

Web Site: <http://www.epa.gov/opptintr/labeling>

Consumer Labeling Initiative: Phase II Report

EPA/742/R-99/004 (557pp) October 1999. A study of consumer product labels in three product categories (indoor insecticides, outdoor pesticides, and household hard surface cleaners). Included in this report are the findings based on the quantitative and qualitative research conducted over a three year period. This report also includes the surveys and graphics used during the qualitative and quantitative study.

Web Site: <http://www.epa.gov/opptintr/labeling>

EPP Update #5

EPA/742/N-99/002 (11pp) September 1999. This update is the fifth in a series of periodic updates intended to inform other federal agencies and the public of the Environmentally Preferable Purchasing (EPP) program's activities, progress and direction. Highlights include: Fort Bragg's Printing, EPP Final Guidance, Environmental Purchasing Tool for Local Governments, Green Conferencing, EPP in the Classroom, Green Alternatives for Government Purchasing, Department of Interior Purchasing, EPP Standards Development, and Web-based tools.

Web Site: <http://www.epa.gov/opptintr/epp/update5.pdf>

Local Government Environmental Purchasing Starter Kit

November 1999; National Association of Counties; Washington, DC; (202) 393-6226. "A Guide to Greening Government through Powerful Purchasing Decisions," the Starter Kit includes program implementation strategies; case studies; model resolution; and a resource list. NACo can also provide, upon request, information packets on eight

product categories: automobile and fleet maintenance/alternative fueled vehicles; cleaners; pesticides and herbicides; office supplies; painting; printing; construction and demolition; green buildings/energy efficiency. Web Site: <http://www.naco.org/programs/environ/purchase.cfm>

Painting the Town Green: Aberdeen Proving Ground's Paint Pilot Project

EPA/742/R-99/005 (26pp) November 1999. This case study documents Aberdeen Proving Ground, a Department of Defense (DoD) installation in Maryland, pilot project to reduce the number, volume, and environmental effects of the paints used on the installation. Now, Aberdeen buys a variety of paints from manufacturers of 73 products that meet the environmental standards established in this project. As a result, the Defense Department will save \$60K in the first year of implementation. Web Site: <http://www.epa.gov/opptintr/epp/paint.pdf>

Profit Through Prevention: Best Environmental Practices for Fleet Maintenance

EPA/909/E-99/002 (35 minute video) November 1999. Video and fact sheets highlighting recommended practices and guidance on how common auto repair and fleet maintenance wastes are regulated. Web Site: <http://www.epa.gov/region09/p2/autofleet/>

The Science of Preventing Pollution: Ecology, Chemical Awareness, and Pollution Prevention for Vocational Programs in High Schools

(125pp) December 1999, draft; Adroscoggin Valley Council of Government; Auburn, ME; (207) 783-9186. Developed with the assistance of NEWMOA, the curriculum modules cover ecological principles, routes of contamination, chemicals used in vocational shops, and P2.

The Janitorial Products P2 Project ("JP4")

U.S. EPA and the State of California. JP4 is producing a series of fact sheets on environmental, health, and safety issues in both English and Spanish. The fact sheets are meant for individual janitorial workers, supervisors, and EH&S staff. Web site: <http://www.westp2net.org/Janitorial/factsheets.htm>

Pathways to a Sustainable Future: A Curriculum Guide for Schools Exploring Waste Management Issues

(200p) 1999; The Chewonki Foundation, Wiscasset, ME; (207)882-7323. A revision of the 1994 curriculum guide provides "awareness pathways, assessment pathways, and action pathways" for beginner and advanced students highlighting the foundations educational mission: To foster personal growth through group interaction in the context of the natural world. Web Site: <http://www.chewonki.org>

NORTHEAST STATES P2 CALENDAR

Title	Sponsor	Date/Location	Contact
Successful Strategies for the Printing Industry In the New Millennium	NAPL	February 27-March 2, St. Petersburg, FL	800-642-6275
Forum 2000: Building Compliance Assistance Partnerships	U.S. EPA	March 1-2, Atlanta, GA	800-445-8667
Targeting the Issues: P2 & Environmental Issues Facing the Great Lakes	GLRPPR & EPA Region 5	March 1-2, Chicago, IL	217-244-6061
Mercury, TRI, & Air Toxics	AWMA	March 6-7, St. Petersburg, FL	412-232-3444
Groundwater Pollution & Hydrology	Princeton Groundwater	March 6-10, Orlando, FL	813-964-0800
The Year 2000 Conf. on Env. Innovation: Creating Sustainable Business Assets	Arthur D. Little	March 8-9, New York City	212-339-0345
Building Energy 2000: Renewable Technologies / Sustainable Design	Northeast Utilities	March 15-18, Yale University	413-774-6051
Workshop on Mercury in Products, Processes, Waste & the Env.	EPA ORD	March 22-23, Baltimore, MD	703-676-7967
NPPR Spring Conference	NPPR	March 21-24, 2000, Boston, MA	202-466-P2P2
Globe 2000: Environment and Business	GLOBE	March 22-24, Vancouver, British Columbia	604-775-7300
Corrosion 2000	NACE	March 26-31, Orlando, FL	281-228-6200
Household Haz. Waste Man. Workshop	NH DES	March 29, Concord, NH	603-271-2047
Ceres 2000 Conference	CERES	April 13-14, San Francisco, CA	508-879-4888
New Hampshire P2 Conference	NH DES	April 24, 2000, Durham, NH	603-862-4234
TUR: The Next Generation	TURI	April 25-26, Marlboro, MA	978-934-3144
LCA: the Life Cycle Concept in Environmental Decision-Making	U.S. EPA	April 25-27, Washington, DC	206-463-7432
22 nd Annual Int. High Technology, Safety, Industrial Hygiene & Environmental Conf.	Semiconductor Safety Association	April 25-29, Arlington, VA	703-790-1745
Metal Finishing Workshops	NYS DEC	April 25, Queens; April 26, Long Island City; May 2, New Paltz, May 9, Rochester	518-485-5857
Printing Video Conference	PNEAC	April 27, 10:30am EST	608-262-0910
EnviroExpo 2000	EnviroExpo	May 9-11, Boston, MA	617-489-3400
P2000 Conference	ME DEP	May 17-18, Portland, ME	207-287-4152
Mercury Reduction Workshop for NH Hospitals	NH DES	June 8	603-271-2902
East Coast Environmental Investor's Conference & Capital Forum	Environmental Capital Network	June 14-15, Boston, MA	734-996-8387
AWMA Annual Conference & Exhibition	AWMA	June 18-22, Salt Lake City, Utah	800-270-3444
International Conference on Heavy Metals in the Environment	Univ. of Michigan	August 6-10, Ann Arbor, Michigan	734-936-0706
Summer Study on Energy Efficiency in Buildings	ACEE	August 20-25, 2000, Pacific Grove, California	302-292-3966
13 th Annual New York State P2 Conference	NYS DEC	September 19-21, Syracuse, NY	518-485-5857

*See www.newmoa.org for more calendar listings

NEWMOA'S RECENT EDUCATIONAL RESOURCES

- C Pressure Sensitive Tapes & Labels: The Clean Air Act Amendments of 1990 & Pollution Prevention Opportunities, 1999, \$10.*
- C The Finishing Line, Q & A, Low Compliant Coatings for Auto Body Shops, 1999 (free).*
- C Technical Assistance Provider Assessment of Three OECA Compliance Assistance Centers, 1999, \$10.*
- C RCRA Compliance for Metal Finishing Facilities: A Slide Show, 1999. 20 minutes.*
- C A First Place Finish: An Environmental Guide for New Hampshire Wood Finishers, 1998, \$15 (free to New Hampshire businesses).*
- C Pollution Prevention Progress in the Northeast States, 1998, \$20.*
- C Improving Your Competitive Position: Strategic and Financial Assessment of Pollution Prevention Investments, Training Manual, 3rd Edition, 1999, \$15 (\$7.50 for nonprofit & government agencies).*
- C Waste Oil Regulations: A Quick Guide for Auto Repair Shops, 1998 (free).*
- C A Checklist for Auto Repair Shops (A self-audit tool for regulatory compliance), 1998 (free).*
- C Northeast States & Eastern Canadian Provinces Mercury Study, A Framework for Action, 1998, \$50.*
- C Pollution Prevention in Metal Painting & Coating Operations, A Manual for Technical Assistance Providers, 1998, \$30 (\$15 for non-profit & government agencies).*
- C Pollution Prevention in the Primary Metals Industry: A Manual for Technical Assistance Providers, 1998, \$10 (\$5 for non-profit & government agencies).*
- C Recommendations for a National P2 Information Network, 1998, \$15 (\$7.50 for non-profit & government agencies)*
- C Wood Furniture: The Clean Air Act & Pollution Prevention Opportunities, 1997, \$40 (\$20 for non-profits & government agencies).*
- C Pollution Prevention for the Metal Finishing Industry: A Guide for Technical Assistance Programs, 1997, \$30.*
- C Pollution Prevention for the Printing Industry: A Guide Technical Assistance Programs, 1997, \$30.*
- C Guide to Accessing Pollution Prevention Information Electronically, 1997, \$15.00 (\$7.50 for non-profits & government agencies).*
- C High-Solid Topcoats and HVLP Spray Guns: Ethan Allen Case Study, 1997, \$2.00.*
- C Ultraviolet Radiation Cured Coatings & Aqueous-Based Coatings, 1997, \$2.00.*
- C Achieving Pollution Prevention in the Printed Wire Board Manufacturing Industry, 1997, \$5.00.*
- C A P2 & Lending Case: National Chromium Company, Renewed Profitability Through Pollution Prevention, 1996, \$2.00.*
- C A P2 & Lending Case: Hubbardton Forge, Immediate Environmental & Efficiency Returns, 1996, \$2.00.*
- C P2 & Lending Report, 1996, \$2.50.*
- C Survey on Integration of P2 into State Regulatory Activities, 1996, Free.*
- C Northeast States P2 Roundtable: A Directory of Participating Programs, 1998, \$10 (\$5 for nonprofit & government agencies; free to NEWMOA member states).*
- C Pollution Prevention and Profitability, A Primer for Lenders, 1996, Free.*
- C P2 Successes, A Compendium of Case Studies from the Northeast States, 1993, \$30 (\$15 for nonprofit & government agencies).*

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