

Celebrating 25 Years of NEWMOA

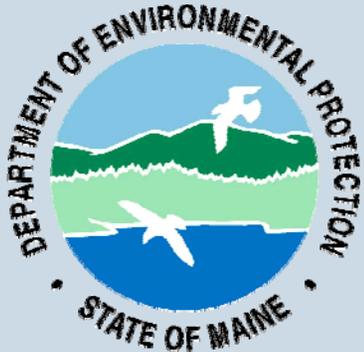
September 22, 2011

Sheraton Harborside
Portsmouth, NH

NEWMOA



Who's a NEWMOAN?



Environmental Challenges: 1980s

- ✓ Implementation of RCRA - enacted 1976
- ✓ Implementation of CERCLA - enacted 1980
- ✓ Cleanup of Love Canal, Woburn, & 1000s of other waste sites
- ✓ Limited SW recycling
- ✓ Huge piles of scrap tires & white goods
- ✓ Closing of unlined solid waste landfills
- ✓ Cross media pollution the norm
- ✓ Waste reduction & P2 just ideas
- ✓ Hazardous waste capacity issues

Pre-NEWMOA: 1975 - 1986

Annual States - EPA Waterville Valley meetings to discuss waste issues & implementation of RCRA & CERCLA

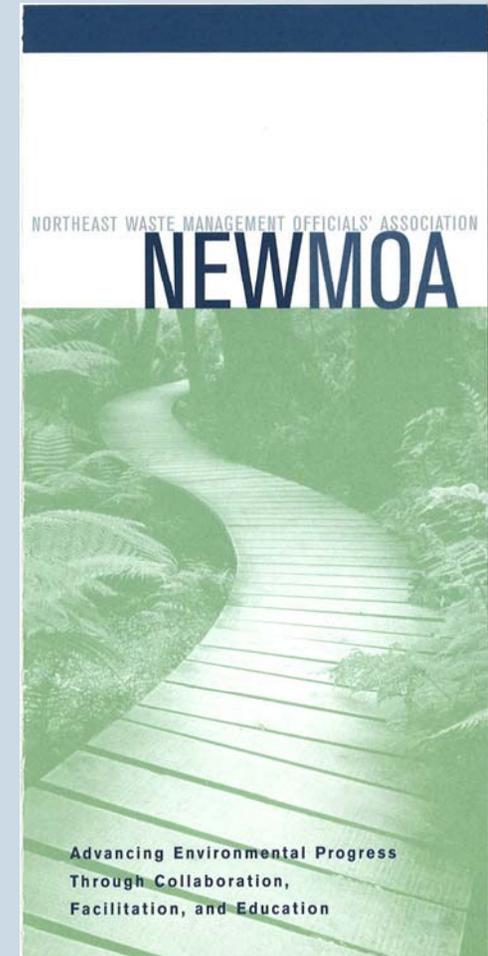


Waterville Valley Resort

NEW HAMPSHIRE

NEWMOA Formed - 1986

- Established by the Governors of the New England states as an official regional organization to coordinate interstate activities related to:
 - hazardous waste
 - solid waste
 - pollution prevention
 - waste site cleanup
- Formally recognized by US EPA
- Board of Directors formed
- Annual meeting held in Waterville Valley



Curt Spalding, Regional Administrator EPA Region 1

"Over the course of 25 years, NEWMOA has shown leadership in making New England a greener, healthier, & safer place to live. Your strides in P2, mercury reduction, toxic chemicals, & solid waste management are tremendous because you bring everyone to the table. Thank you for all of your hard work."



1987 Highlights

- First Executive Director hired
- Board met regularly
- Annual Conference held
- States - EPA Solid & hazardous waste policy discussion held
- Definition of waste debated

1988-1989 Highlights

- Annual Conferences held
- Solid waste program started
- Staff hired
- New Jersey joined NEWMOA
- P2 grant awarded & program started
- Studies on tires & white goods started
- HW Capacity Assurance meetings held

Gary Gulka, VT DEC



"Since the late 1980s, NEWMOA has been instrumental in bringing P2 to the forefront in state programs & assisting the Northeast States become P2 leaders in many areas."

1990 Highlights

- Annual Conference held
- New York joined NEWMOA
- NE A & P2 Roundtable formed
- Multi-Media P2 meetings held
- P2 clearinghouse initiated
- Research on metals in waste initiated
- P2 for pulp & paper conference held
- Capacity assurance meetings held

1991 Highlights

- Annual Conference held
- *NE States P2 News* initiated
- P2 for Inspectors workshop held
- TUR workgroup formed
- Studies on management of batteries & tires published
- P2 Train-the-trainer workshops held
- P2 Roundtable meetings held

First Issue of *NE A & P2 News* 1991



NORTHEAST STATES POLLUTION PREVENTION NEWS

THE NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION
(NEWMOA)

Vol. 1 No. 1 85 Merrimac Street, Boston, MA 02114, (617) 367-8558 Fall 1991

INTRODUCTION

Welcome to "Northeast States Pollution Prevention News"! NEWMOA is initiating this periodic bulletin to provide an ongoing update on the pollution prevention (PP) activities of the Northeast (New England states, New York and New Jersey) state and federal agencies and programs. The appearance of these bulletins will be designed to correspond with the quarterly Regional meetings of the state PP programs. Several state PP programs involved in these meetings requested that the Northeast Multi-Media Pollution Prevention Program (NEMPP) of NEWMOA start a bulletin to facilitate interstate communications on PP activities.

Each state and EPA Regional office in the Northeast has contributed a brief program update to this issue, and NEWMOA appreciates their cooperation and support. We have organized this bulletin in alphabetical order by state with updates from EPA Regions 1 and 2 after the states. We welcome your comments and suggestions on the format and content of this initial issue of "Northeast States Pollution Prevention News."

NEMPP UPDATE

Training Opportunities

NEWMOA's NEMPP program has initiated a number state training activities for this fall. The following is a list of the upcoming training opportunities for state PP staff:

- October 9-10 PP Instructor Training for Region 1 state and EPA staff to be held at the EPA Regional Laboratory in Lexington, MA. Training limited to 20 participants.
- October 24 "Financial Analysis for PP Projects" Workshop to be held at the Tufts University Center for Science and Technology in Medford, MA for Region 1 and 2 state and EPA staff.
- December 4-5 PP Instructor Training for Region 2 state and EPA staff to be held in Albany, NY. Training limited to 20 participants.

Report Available

NEMPP recently completed a report on financial analysis techniques for PP, called "Total Cost Assessment: An Overview of Concepts and Methods." This report will be used in the workshop on financial analysis methods described above. They are completing two case studies and

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Scrap Tire Management Report 1991

SCRAP TIRE MANAGEMENT
IN THE
NEWMOA STATES

Carole J. Ansheles
Solid Waste Program Manager
Northeast Waste Management Official's Association
(NEWMOA)

May, 1991



NEWMOA Chairs: 1987 - 1991

- 1991 - Tom Getz, RI DEM
- 1990 - Al Prysunka, ME DEP
- 1989 - John Maltor, VT DEC
- 1988 - John Minichiello, NH DES
- 1987 - Stephen Hitcock, CT DEP

1992 Highlights

- Annual Conference held
- 1st Annual Report published
- Comments on EPA's proposed Hazardous Waste Identification Rule submitted
- Strategic planning process developed
- Waste Site Cleanup Workgroup formed
- P2 Roundtable meetings held

Annual Conference - 1992

AGENDA

10/19/92

Annual NEWMOA States/EPA Training and Technology Transfer Meeting

November 17 - 18, 1992
Waterville Valley, NH

Tuesday, November 17, 1992

8:30 - 9:00 Registration

9:00 - 9:05 Call to Order and Welcome
Bill Cass, NEWMOA; Mel Hohman, EPA Region I 5 min

9:05 - 9:15 Opening Remarks
Julie Belaga, EPA Region I Administrator 15 min

9:15 - 10:30 SESSION 1 PLENARY

C, D+ WASTE ISSUES, AND THE AFTERMATH OF THE TC RULE

Moderator: Tom Epstein, RI DEM

• EPA Guidance and Decisions on C, D+ Wastes and Newly Identified Wastes
Speaker: Sylvia Lowrance, Director, OSW EPA HQ 25 min

• State Experiences with Newly Identified Wastes
Speakers: Bill Sirull, MA DEP 10 min
Larry Nadler, NY DEC 10 min

• Waste Sampling and Analysis Issues
Speaker: Mike Dowling, EPA New England Lab 15 min

PANEL DISCUSSION, QUESTIONS AND ANSWERS 15 min

10:30 - 11:00 Break

11:00 - 12:30 SESSION 2 CONCURRENT TRAINING SESSIONS

2A WASTE AND CONTAMINATED MEDIA SAMPLING AND ANALYSIS TECHNOLOGY

Moderator: Gerry Sotolongo, EPA Region I

• Sampling, Analysis and Data Interpretation for Auto Shredder Residue
Speaker: Jim Miller, MA DEP 25 min

• Interpreting Data to Identify Environmental/Ecological Damage
Speaker: Susan Svirsky, EPA Region I 25 min

• Region I Tier Approach for Sample Analysis
Speaker: Bill Andrade, EPA New England Lab 25 min

First NEWMOA Annual Report 1992

NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION (NEWMOA)

ANNUAL REPORT FOR FISCAL YEAR 1992

October 1, 1991 to September 30, 1992

Patricia Deese Stanton (MA DEP), 1992 NEWMOA State Chair

William F. Cass, Executive Director
Carole J. Ansheles, Solid Waste Program Manager
Terri L. Goldberg, Pollution Prevention Program Manager

Connecticut Maine Massachusetts New Hampshire New Jersey New York Rhode Island Vermont

Financial Analysis of P2 Training 1992

COSTING AND FINANCIAL ANALYSIS OF POLLUTION PREVENTION PROJECTS: A TRAINING PACKET

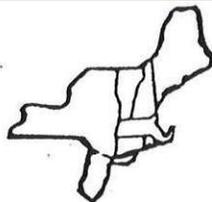
*WORKSHOP AGENDA
WORKSHOP CURRICULUM
CASE STUDIES AND
REPORT*

by
The Northeast Waste Management Officials' Association
The Massachusetts Office of Technical Assistance

1992



P2 Measurement Survey 1992



NEWMOA

NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION

85 MERRIMAC STREET
BOSTON, MA 02114
(617) 367-8558

William F. Cass
Executive Director

Terri L. Goldberg
Pollution Prevention Program Manager

2 FORT ROAD
SO. PORTLAND, ME 04106
(207) 767-7172

Carole J. Ansheles
Solid Waste Program Manager

MEASURING STATE POLLUTION PREVENTION PROGRAM EFFECTIVENESS IN THE NORTHEAST: A WORKING PAPER

September 1992

The New England states, New Jersey and New York (Northeastern states) pollution prevention programs have begun to develop methods for measuring the effectiveness of their activities. To assist the states in this effort, the Northeast States Pollution Prevention Roundtable (NE Roundtable), a program of the Northeast Waste Management Officials' Association (NEWMOA), has developed this working paper. NEWMOA and the states anticipate that we will update and revise this paper in the future as we develop better methods of measuring state pollution prevention program effectiveness.

1993 Highlights

- Annual Conference held
- CERCLA & Superfund reauthorization position developed
- Comments on proposed Environmental Leadership program submitted
- Comments on transportation of hazardous waste policy submitted
- MOU on scrap tire management signed

White Goods Management Report 1993

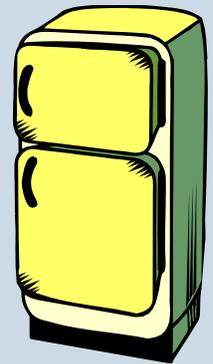
WHITE GOODS MANAGEMENT

IN THE NEWMOA STATES

Prepared by
Ronald Gagnon
Rhode Island Department of Environmental Management

Prepared For
Northeast Waste Management Officials' Association (NEWMOA)
With Input and Review from NEWMOA and NEWMOA-State Staff

February, 1993



Guide to P2 in the Northeast 1993

A Practical Guide To Pollution Prevention In The Northeast

January 1993

Adapted from the Massachusetts Office of Technical Assistance
Manual, "A Practical Guide to Toxics Use Reduction"

Sources of HW in Incinerators & Landfills 1993



Sources of Hazardous Waste Shipped for Incineration, Landfill or Stabilization:

Using Biennial Report Data
in the Design of Waste Reduction
Services in New Hampshire

March 1993

Submitted by

Cummings Consulting, Inc.
Concord, MA

Prepared for

Northeast Waste Management Officials' Association
85 Merrimac Street
Boston, MA 02114

and

Waste Management Division
New Hampshire Department of Environmental Services
Concord, NH

P2 Successes: Compendium 1993

**POLLUTION PREVENTION SUCCESSES:
A Compendium of Case Studies From The
Northeast States**

Compiled by
Terri Goldberg
Pollution Prevention Program Manager

**NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION
(NEWMOA)**

December 1993

P2 Training Handbook 1993

NORTHEAST STATES POLLUTION PREVENTION ROUNDTABLE TRAINING HANDBOOK

First Edition

Edited by Terri Goldberg
Northeast Waste Management Officials' Association
85 Merrimac Street
Boston, MA 02114
(617) 367-8558

January 1993

Printed on Recycled Paper

1994 Highlights

- Annual Conference held
- *Managing ...Discarded Appliances & Vehicles* published
- *Solid Waste Flow in the NEWMOA States* published
- *Measuring Solid Waste in the NEWMOA States* published
- *P2 Successes: A Compendium of Case Studies* published

1994 Highlights

- Financial Analysis of P2 curriculum & training developed & held
- P2 consortium of New England Universities formed
- National 1994 Toxics Release Inventory (TRI) Data Use Conference held
- Development of a regional mercury reduction strategy initiated

Lois Hager, CT DEP



"One of my fondest memories of my work at CT DEP was my participation in NEWMOA's Mercury Task Force. I always looked forward to those meetings because I knew that the people who gathered for them were well-informed, interested in the effort to reduce mercury in the environment, & committed to working together as apolitically as possible. We believed that a small group of state officials could affect national policy. Thanks to the leadership of Terri Goldberg & others, that is exactly what happened. I congratulate NEWMOA on this anniversary & am sure that its efforts continue to be important to coordinating & strengthening environmental policy among the Northeast states."

Board of Directors' Meeting 1994

Annual NEWMOA Directors' Meeting
W. Alton Jones Campus - University of Rhode Island
Whispering Pines Conference Center
September 8-9, 1994

September 8, 1994

9:30	Refreshments	
10:00	Introductions, opening remarks, review agenda and minutes of June 16, 1994 meeting <i>Gary Sondermeyer (FY-94 NEWMOA Chair), Bill Cass</i>	20 min
10:20	NEWMOA Annual Business Meeting	
	• Confirmation of NEWMOA officers for FY-95	15 min
	• Highlights of FY-94 accomplishments and review spending <i>Bill Cass, Carole Ansheles, Terri Goldberg</i>	20 min
	• Review of FY-95 Budgets and grant applications <i>Bill Cass, Carole Ansheles, Terri Goldberg</i>	20 min
	• Review NEWMOA staff performance and set staff objectives for FY-95 <i>NEWMOA Director and staff as requested</i>	45 min
12:00	Working Luncheon - Review FY-95 Workplans Opening discussions and decisions on overall NEWMOA strategies including funding programs <i>Bill Cass, Carole Ansheles, Terri Goldberg</i>	60 min
1:00	State-by-state program updates and discussion of priorities <i>State Directors</i>	60 min
2:00	Review EPA issues with Regions I and II program managers including: lead program; grant flexibility; EPA reorganization; and the Environmental Technology Initiative	60 min
3:00	Critique draft agenda for Annual NEWMOA State/EPA Training and Technology Transfer meeting. Identify speakers and moderators	60 min
4:00	Review detailed plans for solid waste and joint solid/hazardous waste activities including: scrap tires, shredder project, flow control, incinerator ash, lead, fluorescent lamps etc. <i>Carole Ansheles</i>	60 min
5:00	Adjourn	
7:30	Evening session on NEWMOA business and FY-95 plans (if necessary)	

September 9, 1994

9:00	Refreshments	
9:30	Review plans for NEMWOA's role in RCRA rulemaking including: definition of Waste/Recycling; contaminated media; and exit/entry for contaminated waste. Review status of HMTUSA reauthorization; state pilot projects and DOT rulemaking and discuss other hazardous waste issues for possible NEWMOA involvement <i>Bill Cass</i>	45 min
10:15	Review status of CERCLA reauthorization and EPA Headquarters/Regional reform and discuss workgroup activities for FY-95 <i>Bill Cass</i>	45 min
11:00	Review P2 Program plans for FY-95 including: P2 Legislative Committee; P2 training programs, P2 financing activities; P2 Clearinghouse program, TRI conference and NE P2 Roundtable	60 min
12:00	Working Luncheon: State-by-state commentary on NEWMOA's priorities and workplan for FY-95 and beyond. Discuss NEWMOA ETI proposal	90 min
1:30	NEWMOA Strategic Plan and frame agenda for meetings with congressional staff during FY-95	30 min
3:00	Adjourn	

1994 TRI Conference



Jodi Segall, MA TURI



Ihab Farag, UNH
with conference participant

1994 TRI Conference



Lynn Goldman, EPA HQ OPPT

1994 TRI Conference

Terri Goldberg,
NEWMOA



1994 TRI Conference Proceedings



United States
Environmental Protection
Agency

Office of Pollution
Prevention and
Toxics (7407)

EPA/749-R-95-001
March 1995

PROCEEDINGS

Toxics Release Inventory (TRI) Data Use Conference: Building TRI and Pollution Prevention Partnerships

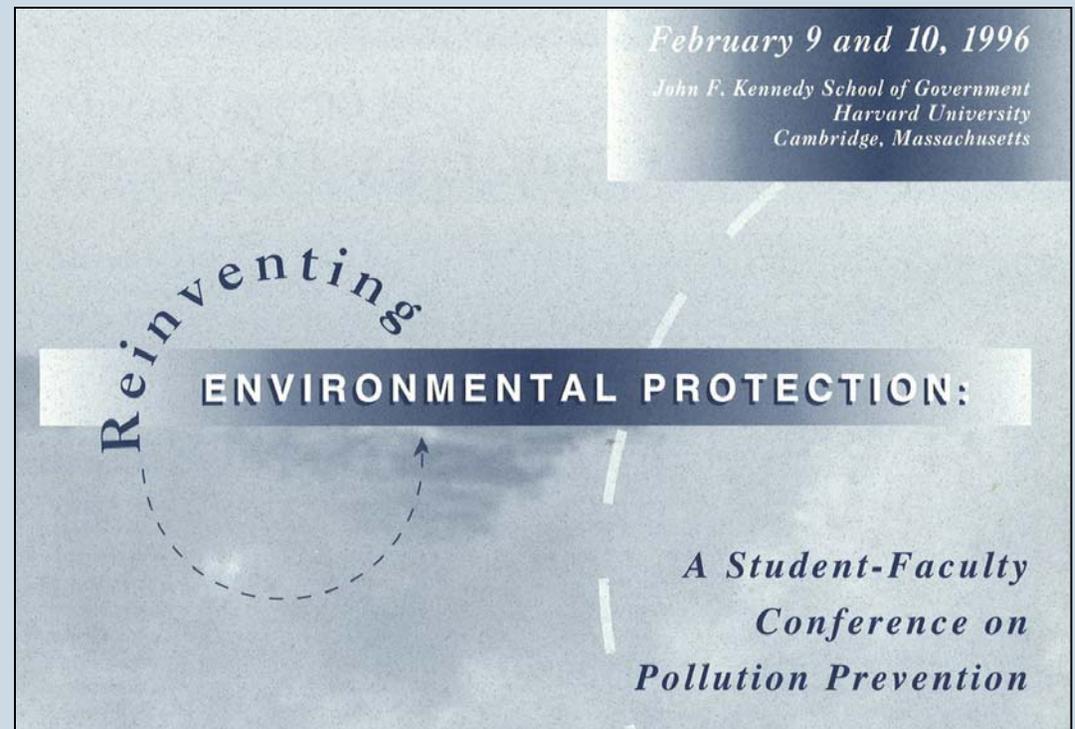
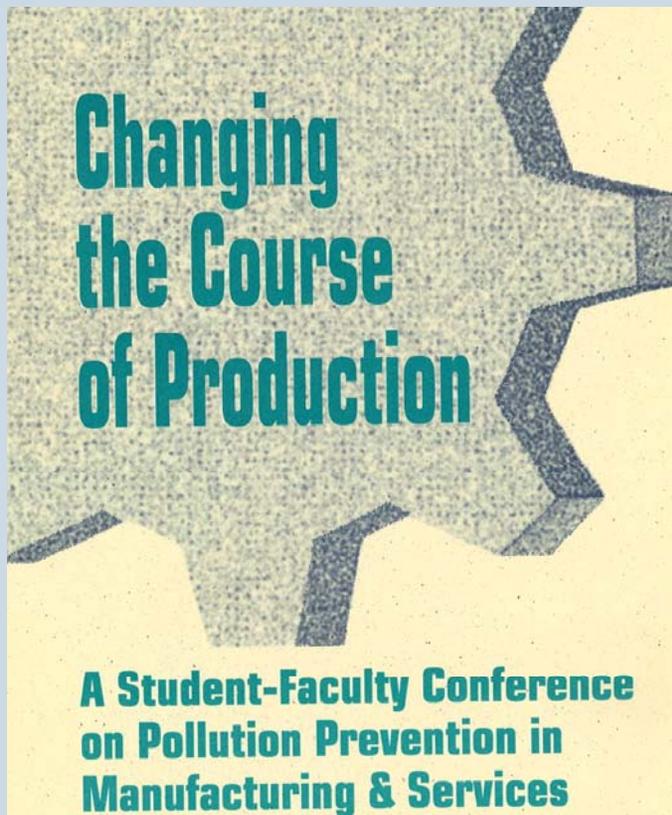
**Boston, Massachusetts
December 5-8, 1994**

Sponsored by the
Northeast Waste Management Officials' Association (NEWMOA)

In conjunction with the
U.S. Environmental Protection Agency (EPA)

and
American Petroleum Institute (API)
Chemical Manufacturers Association (CMA)
INFORM, Inc.
National Association of State Title Three Program Officials (NASTTPO)
National Pollution Prevention Roundtable (NPPR)
New England Interstate Water Pollution Control Commission (NEIWPCC)
Northeast States for Coordinated Air Use Management (NESCAUM)
Toxics Use Reduction Institute, University of Massachusetts Lowell

Student-Faculty Conferences 1994 - 1996



1995 Highlights

- Annual Training & Technology Transfer Conference held
- “Solid Waste Volume Source Reduction” published
- Comments to EPA on Hazardous Waste Identification Rule submitted
- NE & P2 Roundtable Steering Committee formed
- Innovative site remediation workshop held

1995 Highlights

- Initiative to improve management of universal wastes launched
- *Financing P2 Investments* published
- “Skillful Change Agents” curriculum developed & workshops held
- Research on mercury in products conducted

Financial Assessment Workshop 1995



**The Northeast Waste Management
Officials' Association
(NEWMOA)**

**Financial Assessment
of Environmental Projects
Workshop**

Thursday, March 16, 1995
9 am to 4 pm
Factory Mutual Conference Center
Norwood, MA



**Commonwealth of Massachusetts
Executive Office of Environmental
Affairs**

Office Of Technical Assistance

Phil O'Brien, NH DES

"NEWMOA should be proud of its 25 years of accomplishments, which are numerous. To mention a few wouldn't do justice to the many, so I'll simply say what a pleasure it was to be New Hampshire's representative to the Association over a period of 13 years."



1996 Highlights

- Annual Training & Technology Transfer Conference held
- Performance Partnership workshop held
- Regional study on mercury deposition & contamination launched
- States-EPA Brownfields meeting held
- Letter of intent for collaboration on universal waste programs signed

1996 Highlights

- Brownfields conference held
- Strategy on tire management developed
- *P2 & Profitability* published
- *P2 in Regulatory Activities* published
- P2 for “Metal Finishing” & “Metal Coatings” published
- *P2 for Wood Furnishing* published
- “Reinventing Environmental Protection Conference” held

NEWMOA Annual Conference 1996



Sally Mansur, EPA Region 1

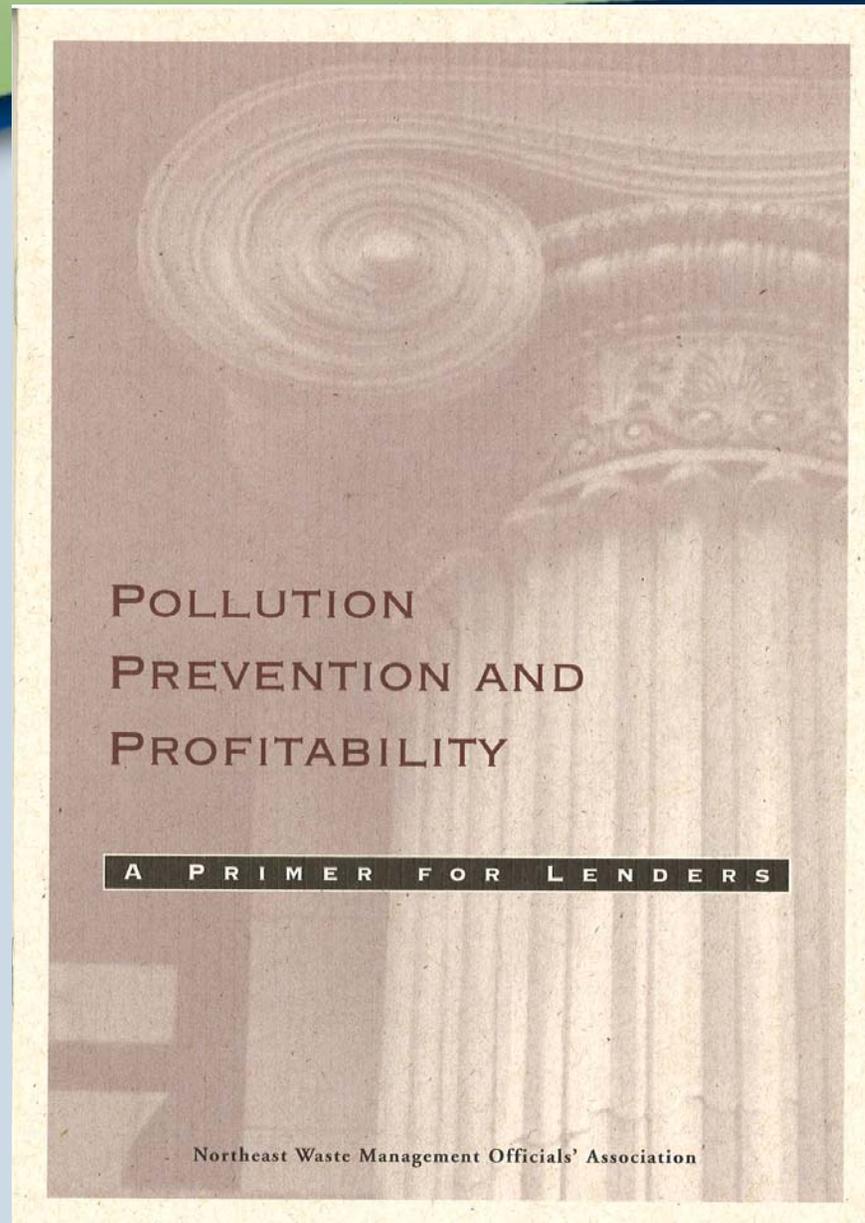
NEWMOA Annual Conference 1996

Bill Cass, NEWMOA;
Phil O'Brien, NH DES;
Helen Waldorf, MA DEP



Jay Naparstek, MA DEP &
John Iannotti, NYS DEC

P2 & Profitability 1996



Motivating P2 Concepts 1996

Motivating Pollution Prevention Concepts:



Homework Problems for Engineering Curricula

Editors:

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Toxics Use Reduction Institute
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Environmental Engineering,
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Burlington, VT 05405

August 1996

NE A & P2 News Through the Years

1996 Partnership Grants

FEATURE ARTICLE

Performance Partnership Grants in the Northeast States

This year EPA and the states are making a major effort to develop new and innovative state block grant agreements, called Performance Partnership Agreements and Grants (PPAs and PPGs). PPAs establish the focus and priorities for the PPGs. A number of the state P2 Programs have been involved in negotiating performance partnership agreements (PPAs). Discussions at recent Northeast States P2 Roundtable have focused on ideas for integrating P2 into the state PPGs. At the September NE P2 Roundtable meeting the states will continue these discussions. The following reviews provide some detailed examples of PPAs that the NE states are negotiating with EPA.

Connecticut

In its FY 1997 Performance Partnership grant application to the EPA, the Department has proposed to undertake an aggressive effort to lead the state's P2 activities by example and help DEP become a model P2 agency. Along with expanding P2 technical assistance and education programs for all sectors of the community, this initiative also entails incorporating P2 into all DEP programs and the daily work of all DEP employees.

Three critical areas will be addressed through this project to transform DEP into a model P2 agency: increase P2 awareness in DEP staff agency-wide; lead the state's P2 efforts by taking steps toward becoming a model P2 agency; and develop a format for P2 self-assessment for use by state and local agencies.

New Hampshire

NHDES submitted a draft Performance Partnership Agreement to EPA Region I in August. The draft

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Feature Article Pollution Prevention Week 2001

The Northeast Waste Management Officials' Association (NEWMOA) extends its condolences to the family, friends, and colleagues of anyone reading this newsletter that was injured or killed in the attacks on September 11. Pollution Prevention Week 2001 took place the week after the terrible events in New York, Washington, and Pennsylvania. In spite of the tragedy, many states demonstrated their commitment to P2 and energy efficiency and proceeded with their plans for P2 Week.

The following state reports provide a snapshot of some of the P2 Week 2001 events and activities that took place in the Region during the week of September 17 - 23.

In addition to many state specific activities, NEWMOA coordinated several regional P2 Week 2001 activities. The states selected "Shop for a Better Environment" as a slogan for this year, and much of the focus in the individual states was on promoting Environmentally Preferable Purchasing. NEWMOA organized a joint resolution that was signed by the EPA Region I and II Administrators and the State Environmental Commissioners and Deputies.

NEWMOA also published a book mark that was distributed throughout the region that included tips on environmentally preferable purchasing (EPP) and a list of useful websites. For a copy of the bookmark and a more complete list of EPP websites, visit the NEWMOA website at www.newmoa.org or contact NEWMOA. The office still has many copies available for distribution.

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Fall 2001 National P2 Week

Spring 2006 Toxics in Chemicals

FEATURE ARTICLE

Assessing Alternatives to Priority Toxics

According to the U.S. Environmental Protection Agency (EPA), businesses today face a variety of critical environmental and economic challenges, including maintaining high-quality goods and services at a low cost, staying competitive in a global marketplace, and meeting consumer preferences for more environmentally friendly products. To help businesses meet these challenges, EPA and many states are promoting the concept of Design for the Environment or DfE as a critical aspect of their pollution prevention, resource conservation, and environmental assistance programs. DfE promotes the design or redesign of products and processes that use cleaner, more cost-effective, and safer raw materials, the environment, and the public.

The successful DfE involves:

1. Examining the hazards of chemicals used in an industry
2. Assessing alternative processes, formulations, and emerging technologies
3. Promoting risk reduction through cleaner technologies and safer chemical choices

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1997 Highlights

- Annual Training & Technology Transfer Conference held
- Meeting on enforcement & assistance coordination held
- Workshop on innovative technology for waste site assessment & cleanup held
- *P2 for Metal Finishing* published

1997 Highlights

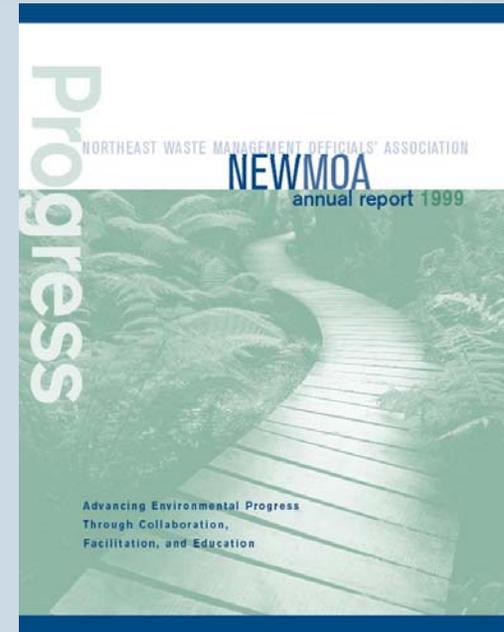
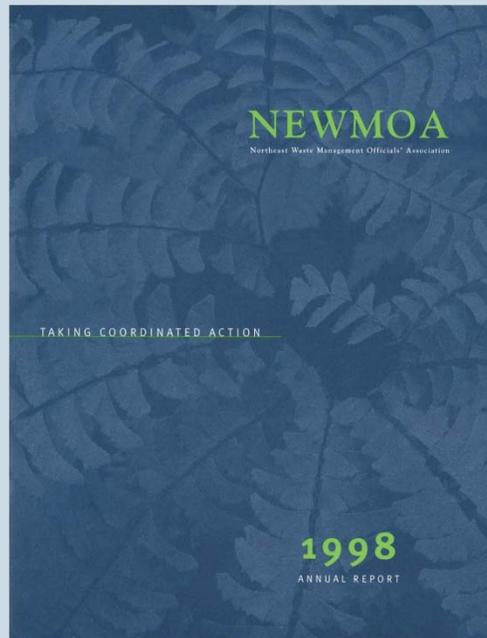
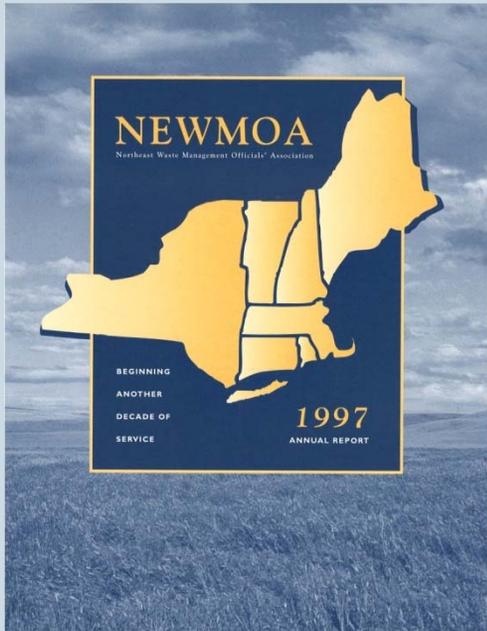
- Meeting on policies on the use of contaminated soils held
- Performance Partnership grants meeting
- *Guide to Accessing P2 Information Electronically* published
- *Wood Furniture* manual published
- Online P2 databases developed

Jeff Sama, NYS DEC



“NEWMOA represents one of the very best models of how government can still carry out its important mission in these difficult economic times. They enable multiple states to pool intellectual as well as limited financial resources, delivering better results than any one state can achieve on their own. By providing regional training, database management, & compilations of best practices, NEWMOA creates efficiencies & strengthens the competence of each state while helping them avoid the costly mistakes learned by others in the past.”

Annual Reports 1997 - 1999



Board of Director's Meeting 1997



Dick Barlow, CT DEP
Bill Cass, NEWMOA



Phil O'Brien, NH DES
John Iannotti, NYS DEC
Skip Flanders, VT DEC



Jack Wilson, NYS DEC
Skip Flanders, VT DEC

Environmental Assistance Meeting 1997



Environmental Assistance Meeting 1997



Mary Werner, NYS DEC; Terri Goldberg, NEWMOA;
& John Iannotti, NYS DEC

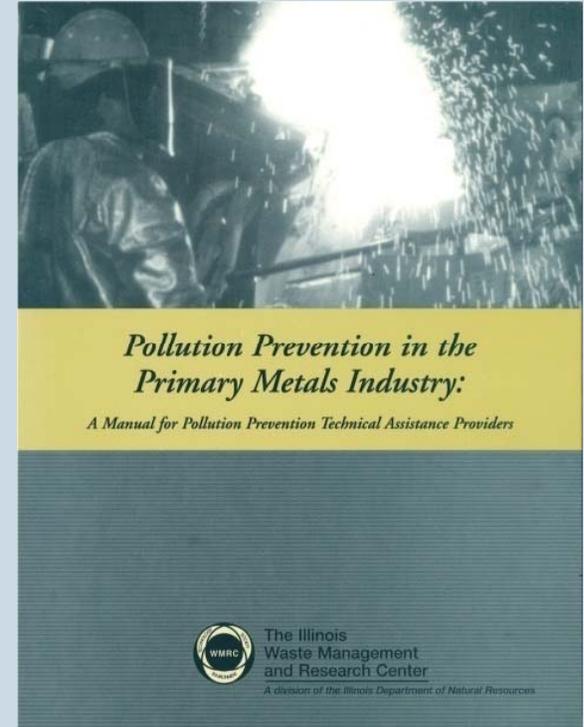
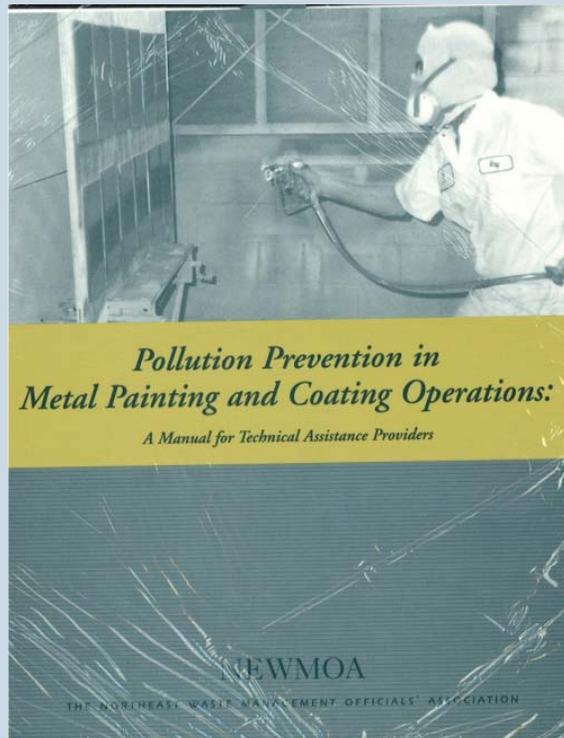
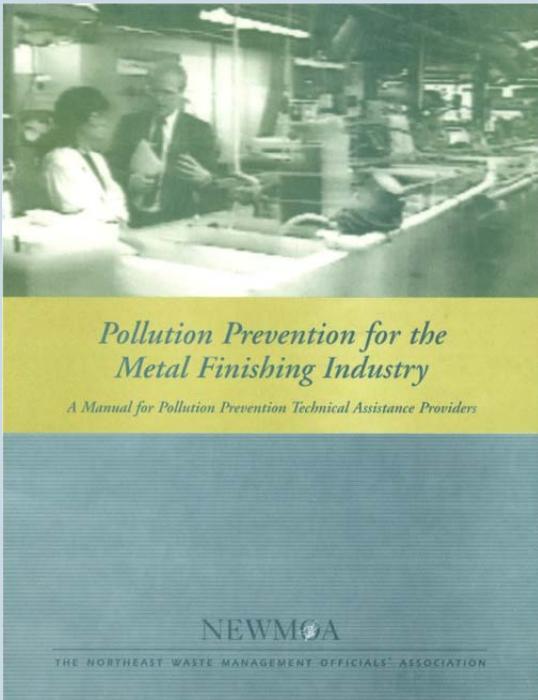
Guide to Accessing P2 Electronically 1997

GUIDE TO ACCESSING POLLUTION PREVENTION INFORMATION ELECTRONICALLY



Northeast Waste Management Officials' Association
129 Portland Street, 6th floor
Boston, MA
(617) 367-8558
February 1997

P2 Manuals for Metals Industry 1997 - 1998



1998 Highlights

- *NE States & Eastern Canadian Provinces Mercury Study* published
- Regional Mercury Action Plan adopted
- Coordination on BUDs started
- Agreement on cooperation on site assessment & cleanup signed
- *P2 Programs in the NE* published
- *P2 in Metal Painting & Coating* published

1998 Highlights

- P2 Resource Exchange (P2Rx) Center started
- Information sharing on BUDs coordinated
- Compliance tool & brochures on waste oil regulations for auto repair published
- “P2 in Enforcement” workshop held
- “P2 Rule & Policy Development” workshop held
- “Advanced Financial Assessment” workshop held

P2 Progress in the Northeast 1998



POLLUTION PREVENTION PROGRESS IN THE NORTHEAST

AUGUST 1998

THE NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION

NEWMOA Annual Conference 1998



Allan Ball, ME DEP; Bill Cass, NEWMOA;
& Senator Bob Smith R-NH

NEWMOA Annual Conference 1998



Adele Foranti, NYS DEC & Jennifer Griffith, NEWMOA

NEWMOA Annual Conference 1998



Ron Gagnon, RI DEM & John James, ME DEP

NEWMOA Annual Conference 1998



Judy Shope, MA DEP; Gary Gulka, VT DEC;
& Stephanie D'Agostino, NH DES

Improving Competitive Position 1998

STRATEGIC AND FINANCIAL ASSESSMENT OF POLLUTION PREVENTION INVESTMENTS

IMPROVING YOUR COMPETITIVE POSITION

TRAINING MANUAL

3rd Edition: Revised and Updated 1998

THE NORTHEAST WASTE MANAGEMENT OFFICIALS' ASSOCIATION

David O'Toole, NYS DEC

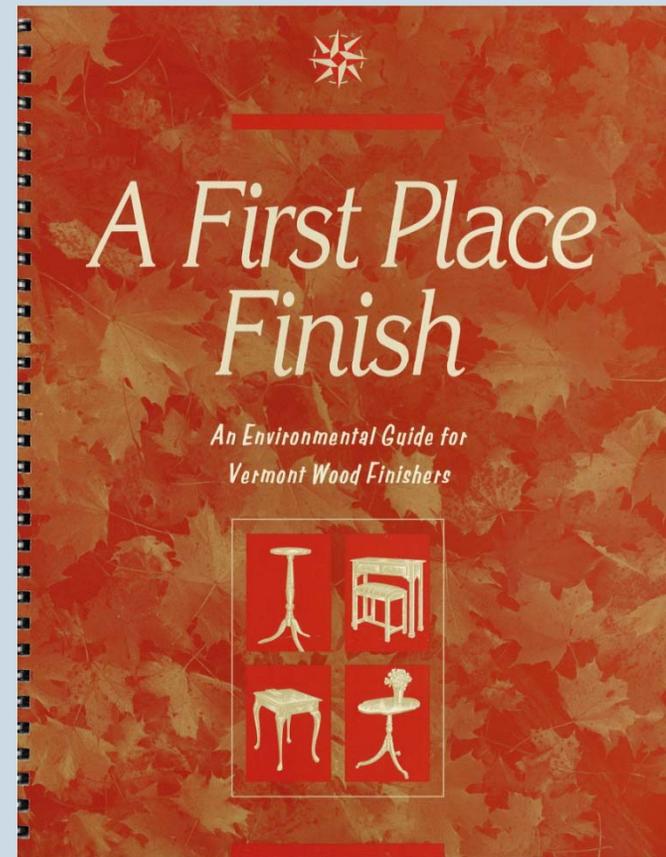
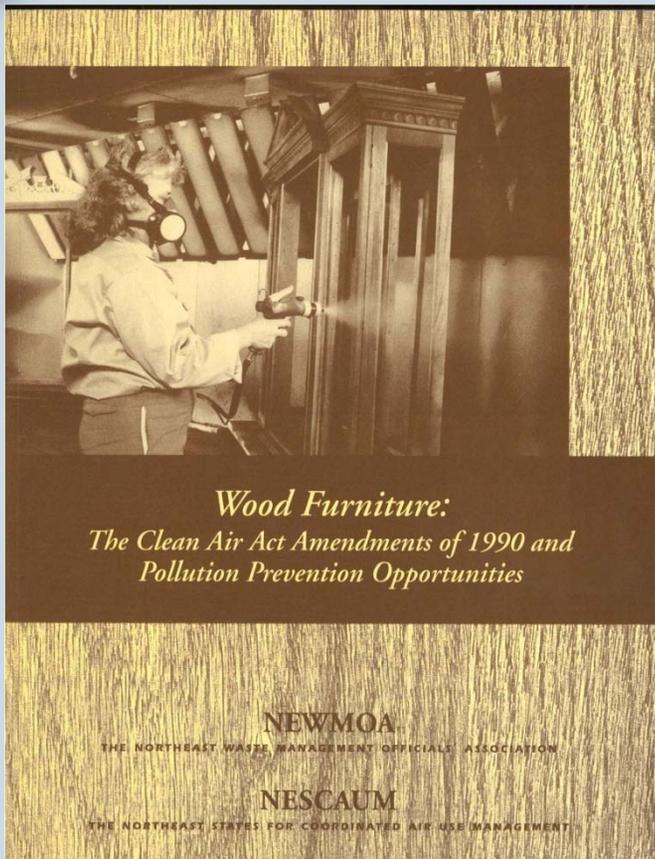
"I feel very fortunate to have had the opportunity to be part of NEWMOA during my time at NYSDEC. It was both professionally rewarding as well as extremely helpful in caring out my responsibilities as a waste management program director. The ability to find out how other states were addressing similar issues allowed us to take advantage of other state experiences in managing our state specific issues. The RCRA C program training that NEWMOA provided was excellent. NEWMOA's various workgroups were invaluable."



David O'Toole, *cont.*

"NEWMOA's ability to be proactive in helping states figure out how to set policy was critical. This was particularly evident in the solid waste management arena where energy considerations & other factors shifted the thinking to a materials management approach. NEWMOA is a great organization that has continued to stay focused on its mission. It has been able to do this because of the active involvement of the dedicated state program directors as well as the great NEWMOA executive leadership & its fantastic staff, which is its heart & soul. I hope NEWMOA's next 25 years are as productive & as effective as the first 25 years."

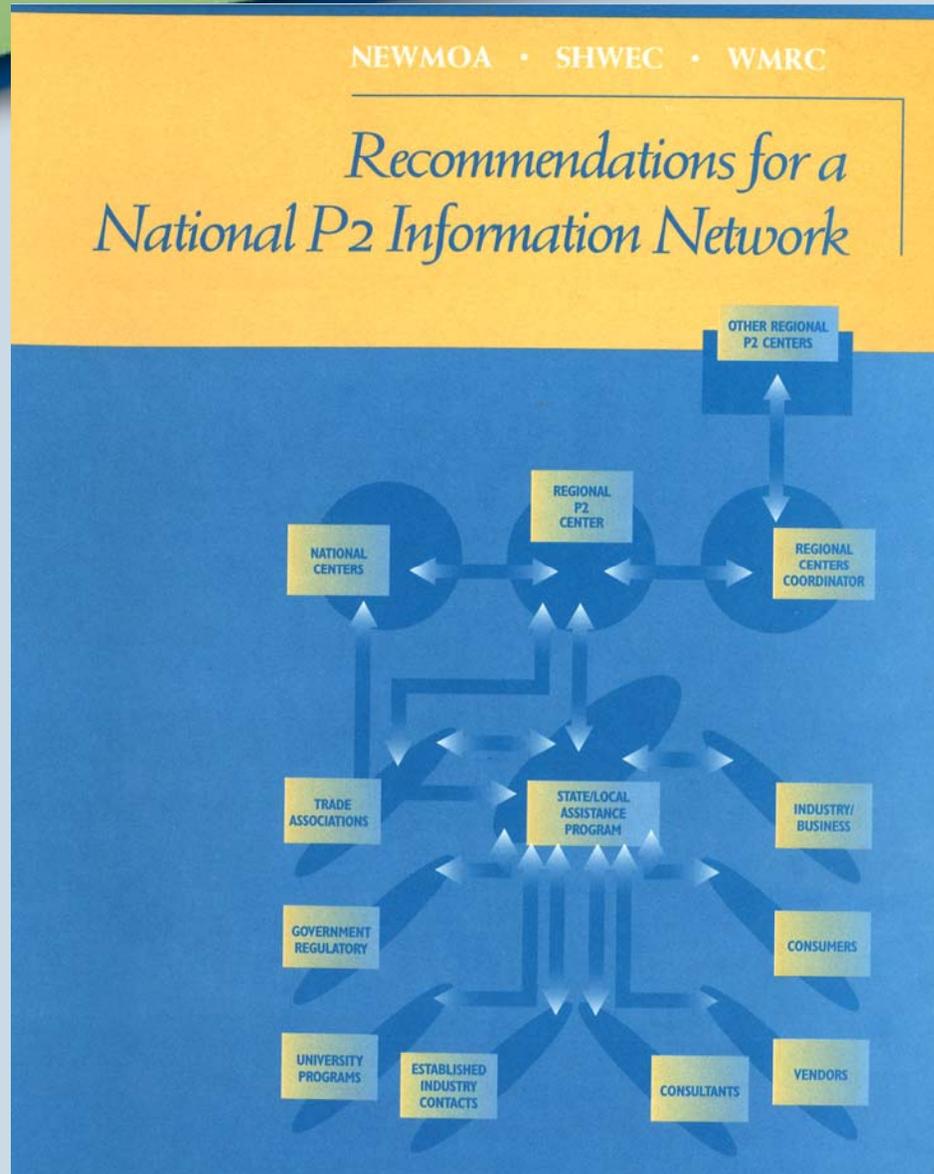
P2 for Wood Furniture Manufacturers 1998



Used Oil Brochures 1998



National P2 Network 1998



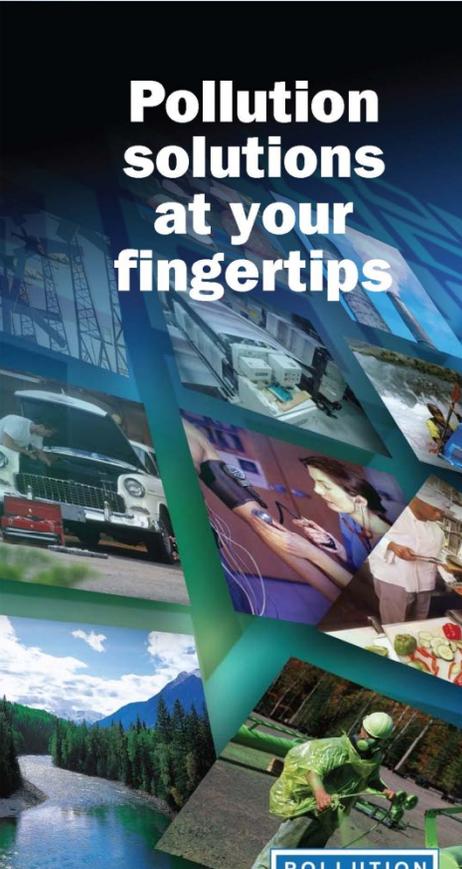
P2Rx Regional Center 1998

NEWS!!!
It's never too late
to be up-to-date.

*Set up your own
news aggregator or
republish national
P2 news*



**Pollution
solutions
at your
fingertips**



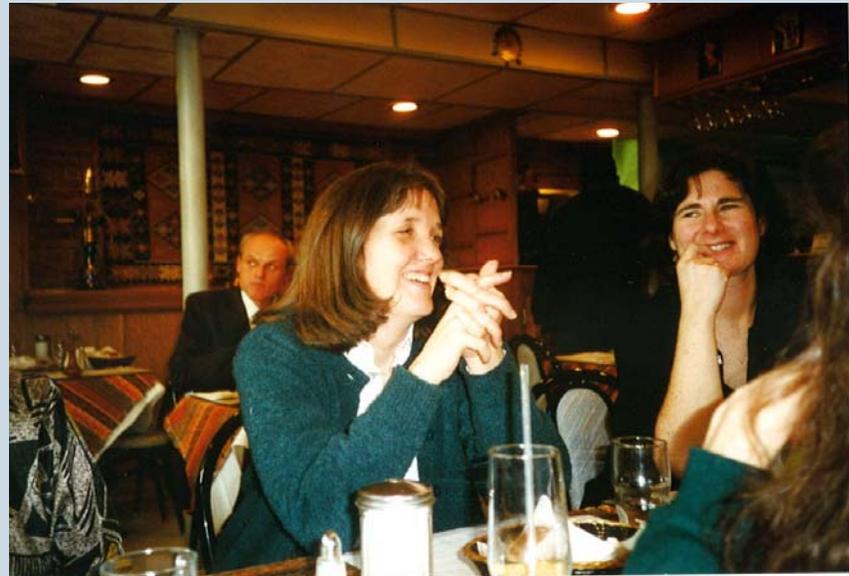
**User's Guide
to P2Rx™
Topic Hubs™**



1998 NEWMOA Staff



Lisa Rector & Eric Heskett



Maureen Hart & Susan Green

NEWMOA Chairs: 1992 - 1998

- 1998 - Helen Waldorf, MassDEP
- 1997 - Philip O'Brien, NH DES
- 1996 - Dick Barlow, CT DEP
- 1995 - John Iannotti, NYS DEC
- 1994 - Gary Sondermeyer, NJ DEP
- 1993 - Bill Ahearn, VT DEC
- 1992 - Pat Deese-Stanton, MassDEP

1999 Highlights

- Annual Training & Technology Transfer Conference held
- Summit on Mercury Action Plan held
- P2 Metrics Menu developed
- BUDs Workgroup formed
- HW Inspector workshop held
- EMS workshop held
- SW financial assurance workshop held

1999 Highlights

- Medical waste management workshop held
- Regulating C&D facilities workshop held
- NEWMOA website launched
- P2 Topic Hubs launched
- P2 Programs Directory launched
- *Low VOC Compliant Coatings for Auto Body Shops* published
- *Pressure Sensitive Tapes & Labels* published

NEWMOA Annual Conference 1999



Dwight Peavey, EPA Region 1

NEWMOA Annual Conference 1999



Carl Dierker, MA DEP &
Joel Hirschhorn, National Governors' Assoc.

P2 Integration Training 1999

Pollution Prevention Integration

A Training Curriculum for Environmental Agency Staff



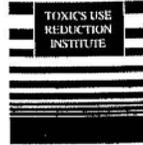
Capacity building in the public environmental agency to promote cleaner, safer and more competitive industry while protecting our natural resources.

Pollution Prevention Integration

Instructor's Manual with Participant Materials



P2 Train-the-Trainer Workshop 1999



Pollution Prevention Train-the-Trainer

National Pollution Prevention Roundtable
Tuesday, April 6, 1999
Washington, DC

Participant Materials

Trainers

Jody Hensley
Toxics Use Reduction Institute
University of Massachusetts Lowell
One University Avenue
Lowell, MA 01584
(978) 934-3275

Terri Goldberg
Northeast Waste Management Officials Assn.
129 Portland Street
6th Floor
Boston, MA 02114
(617) 367-8558

P2 in Permitting Programs 1999

NESCAUM/NEWMOA



Pollution Prevention in Permitting Programs

November 2 & 3, 1999

Pressure Sensitive Tapes & Labels 1999

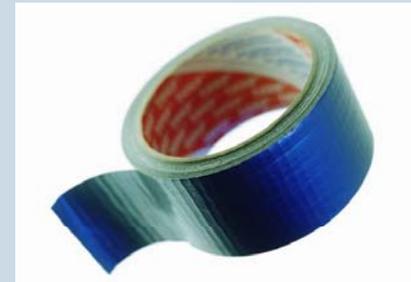
Pressure Sensitive Tapes & Labels

THE CLEAN AIR ACT AMENDMENTS OF 1990
AND POLLUTION PREVENTION OPPORTUNITIES

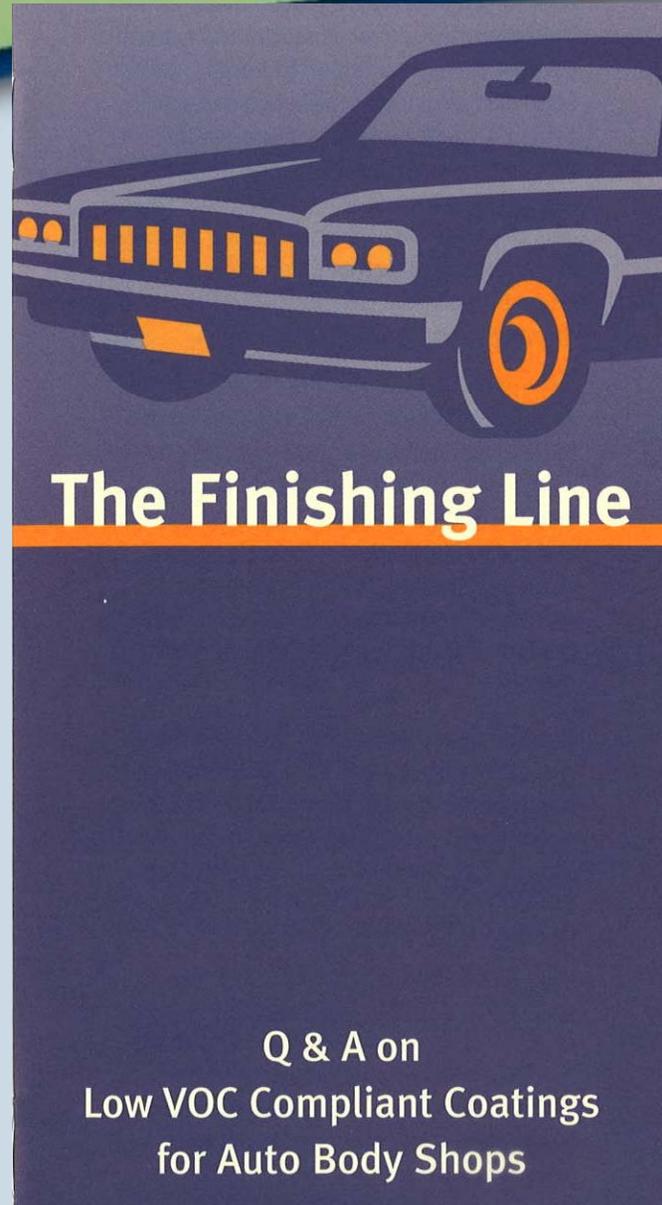


NEWMOA & NESCAUM

Northeast Waste Management Officials' Association and
Northeast States for Coordinated Air Use Management



Automotive Compliance Outreach 1999



2000 Highlights

- Annual Training & Technology Transfer Conference held
- Mercury model legislation published
- NEGC resolution on mercury product legislation signed
- *MSW Flow* published
- E-waste stakeholders meeting held

2000 Highlights

- Environmental Merit Award for Technology Review Committee awarded
- Multi-regional conference on mercury-added products held
- *P2 for Lithographic Printers* CD published
- *RCRA Compliance for Metal Finishers* video distributed

2000 Highlights

- “Energy Efficiency & P2” workshop held
- Marina Workgroup formed
- P2 Projects database launched
- Meeting on “Hazardous Waste Identification Rule & Mixed Waste Regulations” held

P2 for Lithographic Printers CD-Rom 2000

PREVENTING POLLUTION

*An Environmental Resource
for Lithographic Printers*

Reduced Regulatory Burden

Lower Operating Costs

Reduced Chemical Purchases

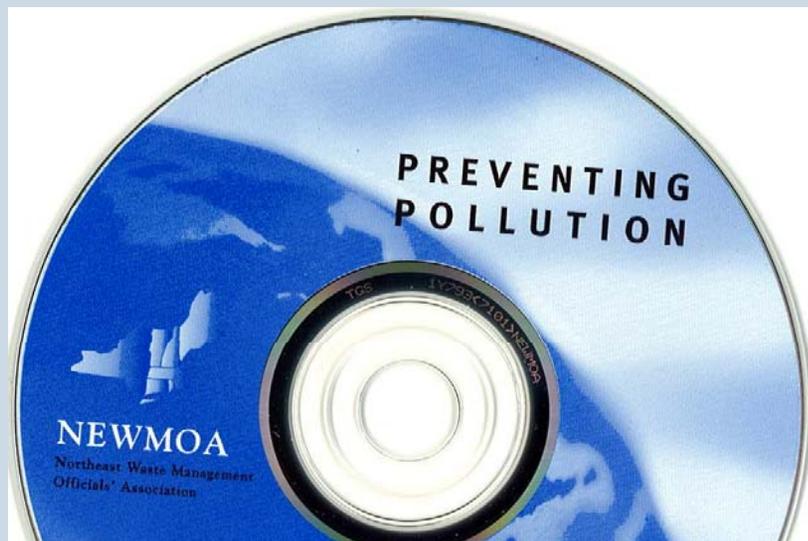
Lower Waste Management Costs

Healthier Work Environment

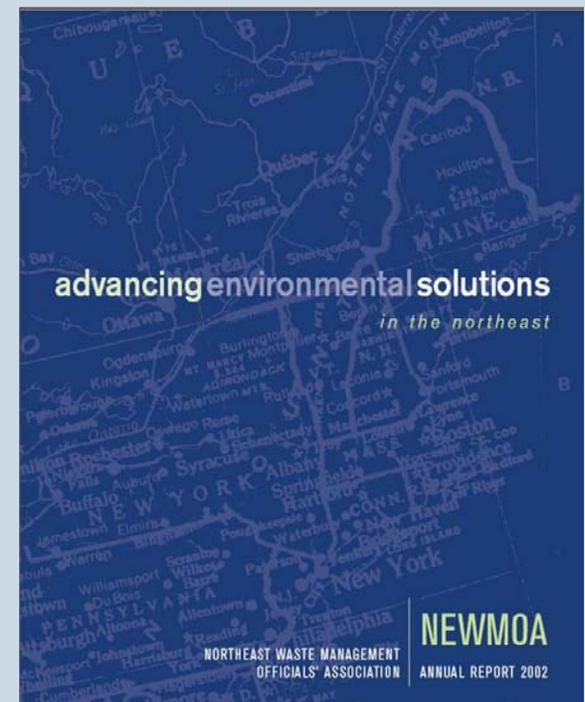
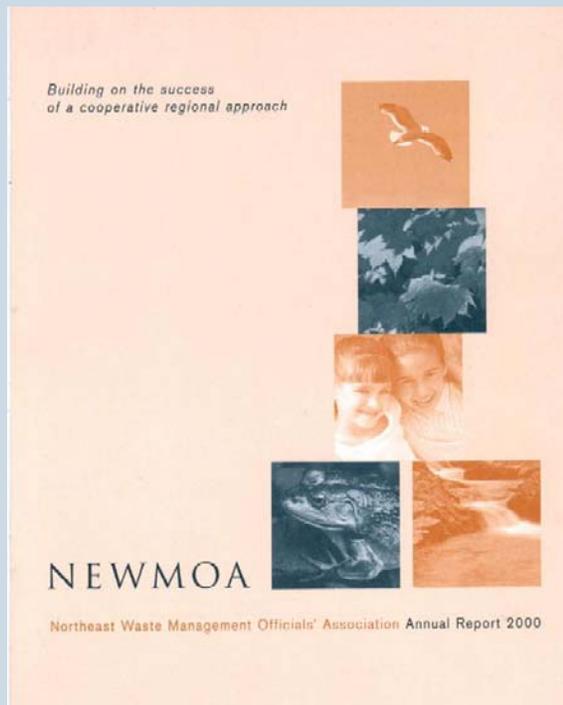
Reduced Liability

Improved Production Efficiency

Enhanced Company Image



Annual Reports 2000 - 2002



2001 Highlights

- Annual Training & Technology Transfer Conference held
- IMERC launched
- *Solid Waste Action Plan* published
- WSC partnership to improve site characterization initiated
- Technology Review Committee advisory opinions developed

2001 Highlights

- Email listservs launched
- Mercury Reduction database launched
- Advanced RCRA Inspector workshop held
- NEPSI dialogue on e-waste launched with NEWMOA participation
- Cleanout of mercury from Massachusetts public schools started

2001 Highlights

- *P2 for Machining & Metal Fabrication* published
- Database for P2 metrics initiated
- Workshop on PBT reduction held
- P2 Integration workshop held
- Contaminated sediments meeting held
- Marina Workshop held
- EMS workshop held

P2 for Metal Fabrication & Machining 2001



POLLUTION PREVENTION IN
Machining and Metal Fabrication

A Manual for Technical Assistance Providers

NEWMOA

The Northeast Waste Management Officials' Association

School Mercury Cleanout Initiative 2001

John Alphin, SCRAM
with mercury barometer



Karen Thomas, NEWMOA
recycling a mercury blood
pressure gauge at
Gardner High School

School Mercury Cleanout Initiative 2001

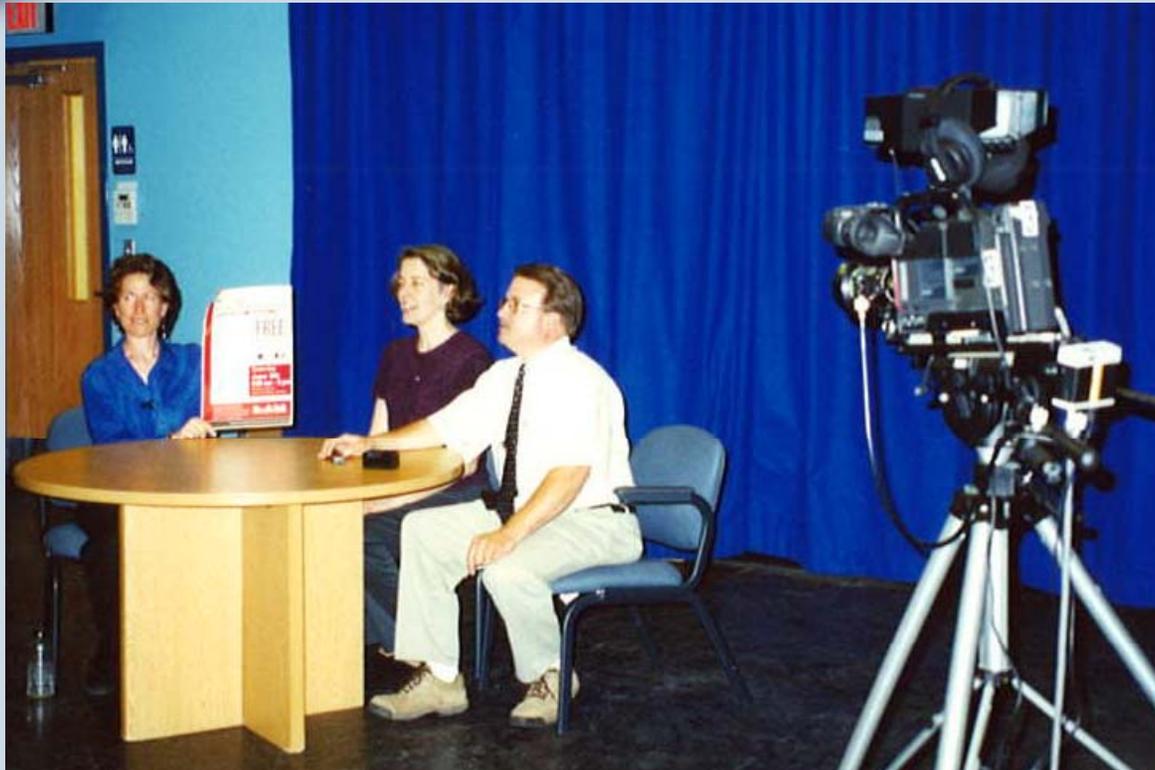


School Mercury Outreach, Education and Clean-Out Pilot Project and Community and Institutional Mercury Pollution Prevention and Outreach Pilot Project

Final Report
June 2001

NEWMOA
Northeast Waste Management Officials' Association

Mercury Public Service Campaign

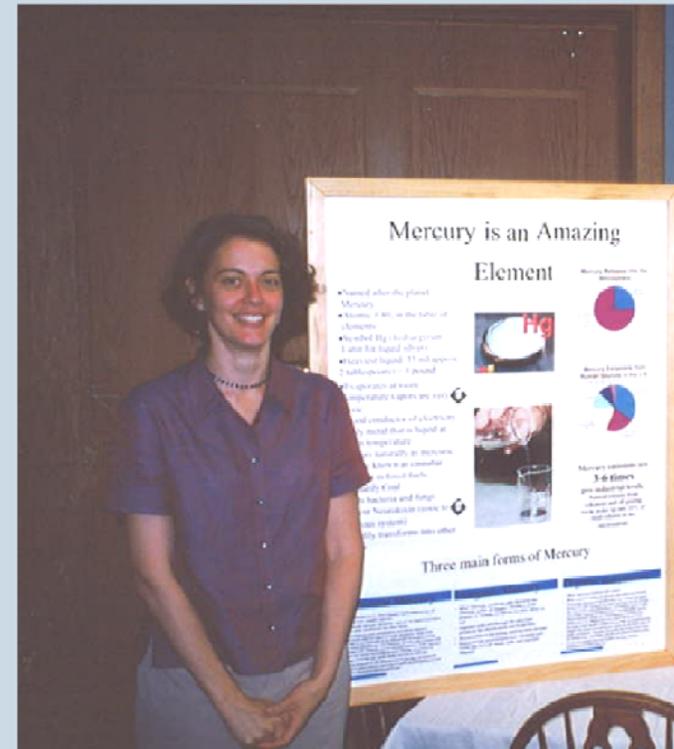


Lori Segall, MassDEP; Karen Thomas, NEWMOA; Mark Oram, Ashland High School
Taping a Public Service Announcement for Community Cable Television

Bay Path Technical High School 2001



John Lafleche, Bay Path & John Alphin, SCRAM



Karen Thomas, NEWMOA
at Regional Business
Managers Meeting

IMERC Launched 2001

Mercury Reduction Laws & Programs

Starting in 1999 the Northeast states began pursuing enactment of legislation focused on reducing mercury in products and waste. As of early 2003 Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont have passed some mercury education and reduction legislation. At least two of these states have enacted the following as of January 2003:

- **Interstate Mercury Clearinghouse:** Authorizes the establishment of IMERC. (Enacted by Connecticut, Maine, New Hampshire, and Rhode Island)
- **Notification:** Requires manufacturers, distributors, and importers to provide written notification about mercury-added products that will be offered for sale in the state. (Enacted by Connecticut, Maine, New Hampshire, and Rhode Island)
- **Restrictions on the sale of certain mercury-added products:** Bans the sale of certain mercury-added products and may include novelty items, fever thermometers, thermostats, and dairy manometers, and the use of mercury in school classrooms. (At least some portions enacted by Connecticut, Maine, Massachusetts, New Hampshire, and Rhode Island)
- **Phase-out and exemptions:** Institutes a gradual phase-out of mercury-added products with a process for applying for exemptions. (Enacted by Connecticut and Rhode Island)

- **Labeling:** Requires certain mercury-added products and their packaging to have a label that indicates the presence of mercury and the products should be disposed of or managed properly. (Enacted by Connecticut, Maine, Rhode Island, and Vermont)
- **Collection Plans:** Requires manufacturers to submit for approval by the state plans for collection systems that they will finance for the mercury-added products they sell in the state. (Enacted by Connecticut and Rhode Island)
- **Disposal Ban:** Requires the recycling or hazardous waste disposal of certain mercury-added products. (Enacted by Maine, Rhode Island, and Vermont)
- **Limitations:** Limits the sale of elemental mercury to medical and industrial uses. (Enacted by Connecticut, Maine, New Hampshire, and Rhode Island)

Mercury-Added Products Database

IMERC has created an online "Mercury-added Products Database" of information on the amount and purpose of mercury in consumer products reported by manufacturers under the notification requirements of the states' mercury reduction legislation. The database informs consumers, recyclers, solid waste facilities, policy makers, and others about:

- products that contain intentionally-added mercury
- the amount of mercury in specific products
- the total amount of mercury used in specific product categories that were sold in the US in a given year (first reporting year was 2001)
- the manufacturers of mercury-added products

Online Information

<http://www.newmoa.org/prevention/mercury/imerc> offers additional information about IMERC and contains the manufacturer, wholesaler, and trade association notification forms.

<http://www.newmoa.org/prevention/mercury/modelleg.cfm> provides additional information about Mercury Education and Reduction Model Legislation.

<http://www.newmoa.org/prevention/topichub/> provides general information about mercury and some mercury-added products and alternatives.

<http://www.dep.state.ct.us/wst/mercury/mercury.htm> provides specific information about Connecticut's "Act Concerning Mercury Education and Reduction."

<http://www.state.me.us/dep/mercury/legreg.htm> provides information about all of Maine's laws that are specific to mercury-added products.

<http://www.des.state.nh.us/nhppp/legislation.htm> provides information about all mercury legislation in New Hampshire.

<http://www.state.ri.us/dem/topics/mercury.htm> provides information about Rhode Island's "Mercury Reduction and Education Act."

<http://www.mercvt.org> provides information about Vermont's Mercury-Added Product Labeling Law

imerc

For more information on IMERC contact:
IMERC, c/o NEWMOA
129 Portland Street 6th floor
Boston, MA 02114
(617) 367-8558 (phone)
(617) 367-0449 (fax)
www.newmoa.org/prevention/mercury/imerc

Printed on recycled paper with soy-based ink.



imerc

INTERSTATE MERCURY EDUCATION
& REDUCTION CLEARINGHOUSE

Declines in Mercury Use 2001 - 2007

Total mercury sold in products in the U.S. was ~129.4 tons in 2001 & ~69.2 tons in 2007, a decline of ~46 %

Reductions in product categories:

- Measuring devices = 77 %
- Thermostats = 73 %
- Switches & Relays = 48 %
- Dental amalgam = 46 %
- Button cell batteries = 25 %
- Mercury-added lighting = unchanged



2002 Highlights

- Annual Training & Technology Transfer Conference held
- IMERC Database launched
- “Breaking the Mercury Cycle” conference held
- *8 Good Ideas for Reducing Mercury Exposure & Pollution* published
- Workshops on waste site characterization held

2002 Highlights

- Corrective Action conference held
- “Emergency Response After 9/11” meeting held
- 1st P2 webinar held on EPP
- 1st P2 & Compliance Assistance Metrics software released
- *Interstate Flow of Municipal Solid Waste* published

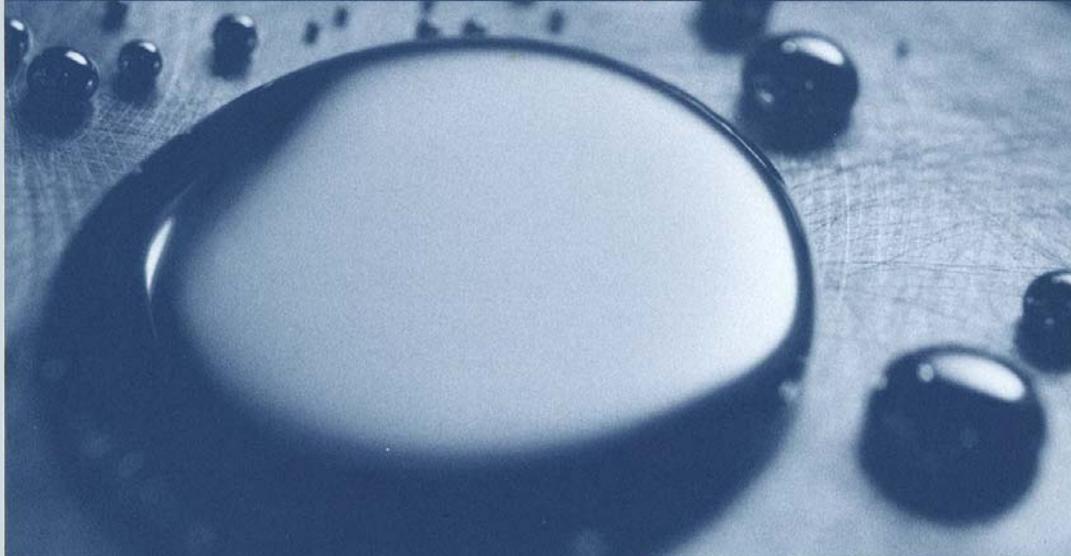
2002 Highlights

- *Waste Tires in the NEWMOA States* published
- P2 metrics software released
- C & D materials interstate flow report initiated
- Salvage yard workgroup formed
- Mercury-added product bans & phase-outs supported

2002 Mercury Conference

Breaking the Mercury Cycle

*Long Term Management of
Surplus & Recycled Mercury
& Mercury-Bearing Waste*



*May 1-3, 2002
Hynes Convention Center
Boston, MA*

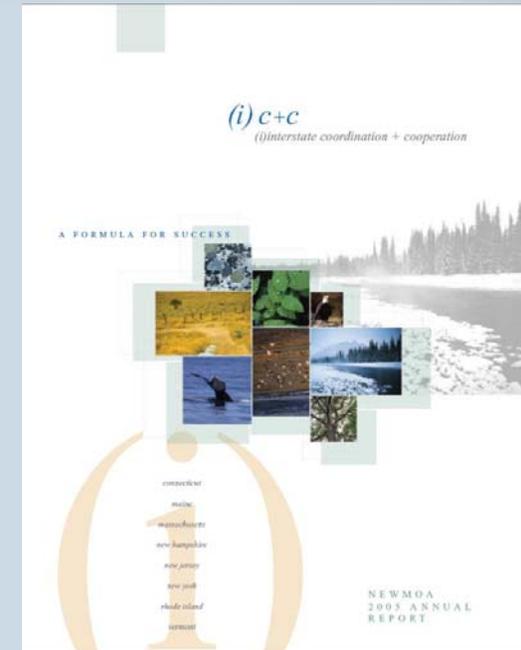
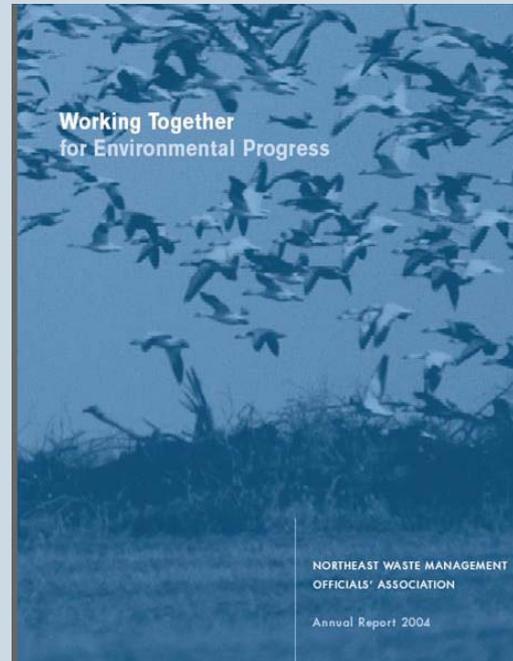
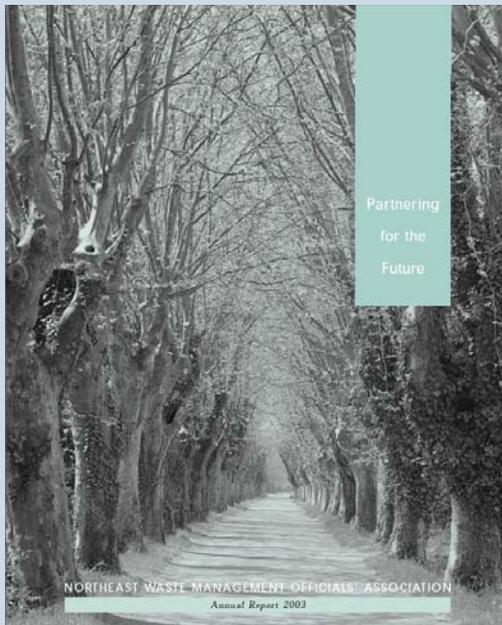
2003 Highlights

- Board's Strategic Plan developed
- National P2 Results Task Force launched
- Greening government conference held
- Dioxin - Burn Barrel Workgroup formed
- P2 innovative technology profiles developed

2003 Highlights

- Advanced Hazardous Waste Inspector workshop held
- Research brief on management of pressure treated wood developed
- Solid waste flow report published
- Site characterization fact sheets initiated
- IMERC membership expanded beyond the region

Annual Reports 2003 - 2005



Greening Government Conference 2003

Sponsored by
U.S. EPA
Regions 1, 2, 3
& NEWMOA

**Greening the Government: A
Sustainability Conference for
Government Officials**



Research Triangle Park - an EPA Green Facility

June 4-6, 2003

**Sheraton Rittenhouse Hotel
18th and Locust Streets
Philadelphia, Pennsylvania**

Frank Coolick, NJ DEP

“The value that NEWMOA brings to the states cannot be overstated, especially the open communication that allows us to learn from both each others successes & failures.”



2004 Highlights

- Outreach materials on effective & less costly waste site cleanups published
- Common measures project initiated
- Data analysis on mercury use in products started
- Recommendations to EPA for improving compliance assistance provided

2004 Highlights

- Case studies of institutional controls at waste sites developed
- “Improved Quality of Site Characterization” workshops held
- Innovations Summit held
- Advanced Hazardous Waste Inspector workshop held
- Lamp Recycling Workgroup formed
- Meetings on C & D management held

IMERC Alert - 2004



Deadline for Mercury-added Phase-Outs & Exemption Applications – July 1, 2004

IMERC has posted guidance on its webpage — www.newmoa.org/prevention/mercury/imerc/phaseoutinfo.cfm — for manufacturers of mercury-added products to help them comply with phase-out and collection plan requirements in Connecticut, Maine, and Rhode Island. These states have enacted specific mercury product phase-out and collection system plan laws, and the guidance material on the website describes how companies can comply with them. The first deadline for mercury-added product phase-outs is July 1, 2004 in Connecticut and applies to mercury-added products with more than one gram or 250 parts per million (ppm) of mercury. Manufacturers of these products must either phase-out the sale of these products in Connecticut or submit a "Phase-out Exemption Application" that meets the criteria specified in the states' law. Manufacturers can find the Application on the IMERC webpage identified above.

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

Guidance on Compliance with Product Bans for Mercury-added Products Sold & Distributed in the US

IMERC has posted guidance on its webpage — www.newmoa.org/prevention/mercury/imerc/productban.cfm — that is designed to help manufacturers, importers, and distributors of mercury-added products understand how to comply with specific mercury-added product bans in the United States.

This guidance document covers product bans enacted in the IMERC and non-IMERC member states. The mercury-added product bans enacted in the applicable states generally focus on the following categories of products: mercury-added fever thermometers, dairy manometers, thermostats, and other measuring devices that have widely available non-mercury alternatives. These product bans do not allow manufacturers to apply for an exemption.

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

Requirements for Updating Mercury-added Product Notification Forms

The deadline for updating Mercury-added Product Notification Forms will be April 1, 2005, including reporting total mercury use for US sales of mercury-added products in calendar year 2004. Mercury-added product manufacturers or their representatives are required to submit an updated Mercury-added Product Notification Form if (1) there is a change in any of the information required for the Notification (e.g., increase or decrease in the amount of mercury); (2) the mercury is eliminated from the product; (3) the manufacturer stops manufacturing the mercury-added product or product category; (4) the mercury-added product or product category is no longer sold in states requiring Notification; and/or (5) the manufacturer begins to produce additional mercury-added products. Every three years the total mercury use information is required to be updated and reported for a full calendar year.

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

2005 Highlights

- Common Measures Project training held
- EMFACT TM project launched
- Advanced Hazardous Waste Inspector workshop held
- C & D materials reuse meeting held
- Awareness campaign to eliminate burning of waste in outdoor barrels started

2005 Highlights

- Brochures on improving site investigations published
- National mercury reduction conference held
- NE Environmental Summit held
- Initiative on emerging chemicals of concern launched

Open Burning of Waste 2005

BURNING TRASH is DANGEROUS!



**SO PLEASE PUT TRASH
WHERE IT BELONGS.**

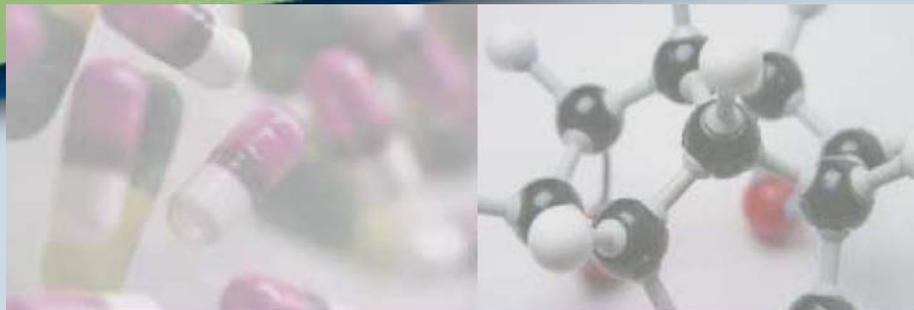
For more information:
www.dec.state.ny.us



*New York State Department of
Environmental Conservation*



EPA Region 2 Science Day 2005



Region 2 Science Day 2005

Non-Regulated Pollutants
Brominated Flame Retardants and
Pharmaceuticals
Approaches to Emerging Chemicals Issues

October 25-26, 2005
EPA Region 2
290 Broadway
New York, NY

Additional Information:
www.epa.gov/region2/events

Organized by:

U.S. EPA – Region 2
Northeast Waste Management
Officials' Association



NEWMOA

EPA Region 2 Science Day 2005



Walter Schoepf, Nora Lopez, Marian Olsen, & Ariel Iglesias
EPA Region 2

EPA Region 2 Science Day 2005



Mark Maddaloni, EPA Region 2

Barbara Kelley, MA OTA

“Congratulations on reaching this milestone. NEWMOA was an important part of the P2 effort in the Northeast when we were all starting out on uncharted paths. The ability to exchange information & experiences among the various state programs was invaluable. We all gained from those relationships which NEWMOA fostered through its meetings & workshops.”

Lamp Recycling Outreach 2005

Don't trash fluorescent lamps! *Recycle them.*



Fluorescent and High Intensity Discharge (HID) lamps contain mercury. Improper disposal releases mercury into our air, water and soil, harming human health and wildlife. For more information on state regulations and required management options visit <http://www.newmoa.org/lamprecycle>

Recycle Your Lamps.

Proper lamp management minimizes your liability.

Sponsored by the Northeast Waste Management Officials' Association (NEWMOA). This is an EPA Funded Project.

Hg reminds us that fluorescents contain mercury and must be managed properly.

Lamp Recycling Outreach 2005

How to **recycle** mercury lamps in **8 easy steps**:

Highly efficient, fluorescent lighting is an excellent choice for both financial and environmental reasons. Fluorescent and HID lamps contain mercury, however, and must be managed properly, especially when they become a waste. Tossing mercury lamps in the trash is no longer a lawful option. Disposal of lamps as hazardous waste can be expensive. Recycling spent lamps, however, is a cost-effective disposal alternative.

1 Assess your facility

How many fluorescent and HID lamps do you use? How many do you dispose of each month, or each year? What do your employees do now with spent or broken lamps?

2 Choose a recycling company

See www.newmoa.org/lamprecycle for a list of recyclers operating in the Northeast. Your recycler will explain how to properly store spent fluorescents and prepare them for shipping, as well as provide storage containers, transportation and a certificate of recycling. See the back for alternatives to recycling companies.

3 Establish a process for collecting and managing used lamps as Universal Waste

Designate a safe, dry storage area where the lamps won't be broken. Make sure employees know whom to call when a lamp burns out, or what to do if one breaks.

If your building generates small amounts of waste lamps, consider recycling through a "box program." In this type of program you collect spent lamps in a pre-paid, labeled shipping container, purchased from a recycler or distributor. When the container is full, you simply mail it to the recycler.

Note: Maine does not permit box program recycling.

If your building generates large amounts of waste lamps, recyclers can make regular pick-ups. Also,

consider re-lamping in bulk. This could save you money.

4 Store used lamps in Universal Waste-compliant containers.

Mark each container with "Universal Waste – Lamps," "Waste Lamps" or "Used Lamps," and the date accumulation began. Get lamps to the recycler within one year.

5 Properly manage broken lamps

Clean up broken lamps promptly, placing shards and spilled powder in a puncture-resistant, sealed, plastic bag, or bucket. Wear gloves and use a damp cloth to sweep up the powder. Place all clean-up materials in a separate sealed container. Never vacuum lamps; it will simply spread the mercury vapor. You may recycle broken lamps at the same facility as your intact lamps. Do not throw them in the regular trash.

6 Save records

Save recycling certificates and bills of lading or invoices that track your lamps, particularly if you do not work directly with a recycler.

7 Include recycling costs in your annual budget

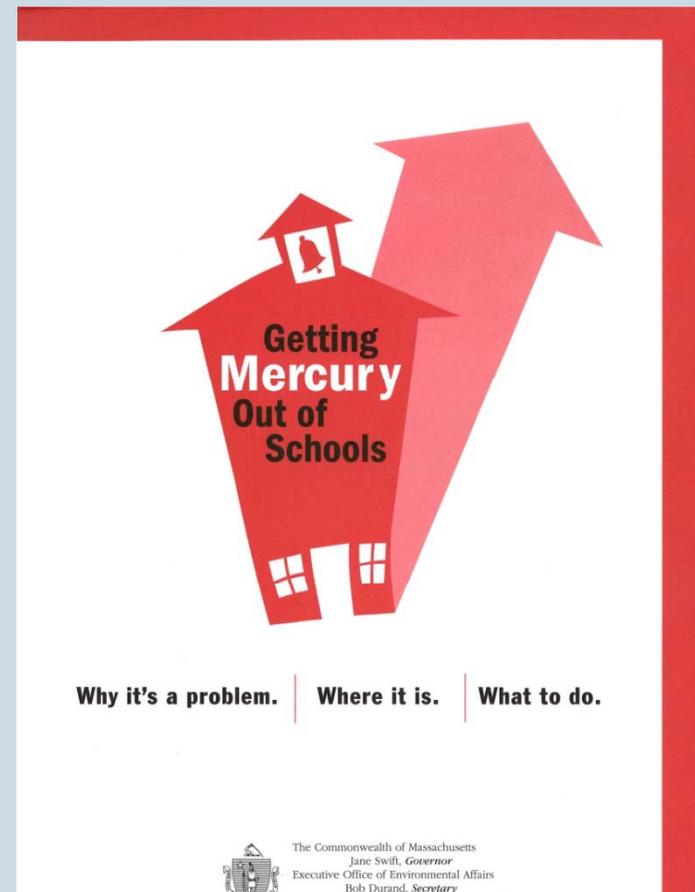
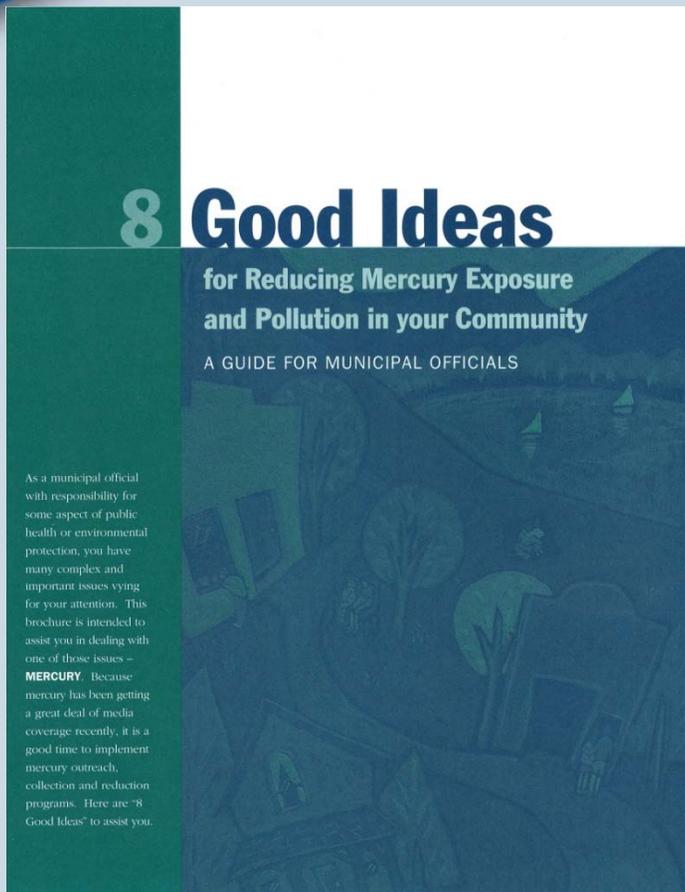
See back for cost estimate.

8 Let your tenants know you are recycling

They'll appreciate your concern for the environment! Encourage them to recycle too.



Getting Mercury Out of Schools & Communities



2005 Mercury Conference

Carol Hubbard, MN PCA
with "Clancy" - a
mercury-sniffing dog



2005 Mercury Conference



Leeann Hanson, Carole Cifrino, Terri Goldberg, & Jeri Weiss

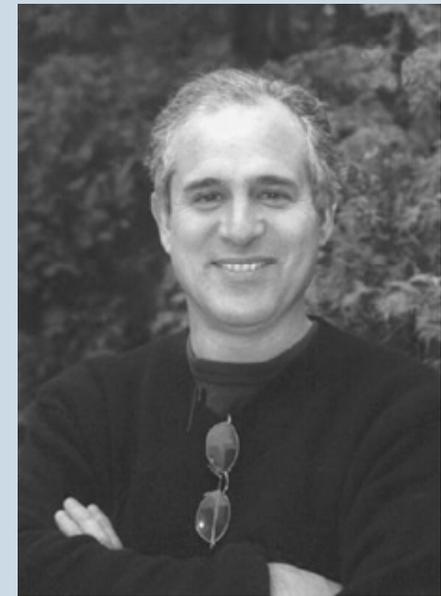
2005 Mercury Conference



Malcom Burson,
ME DEP

Rick Reibstein, MA OTA

“NEWMOA has provided an indispensable service to the region. No one else has so effectively knitted together all the preventive & innovative initiatives going on in the states, so that we all know about what is going on & have a chance to coordinate with each other to produce more effective results. No one else has shown so much leadership, on a regional & national basis, on the cutting edge, which is so crucial to progress. Few can rival NEWMOA’s record in achieving so much benefit for the public & the environment with so few resources.”

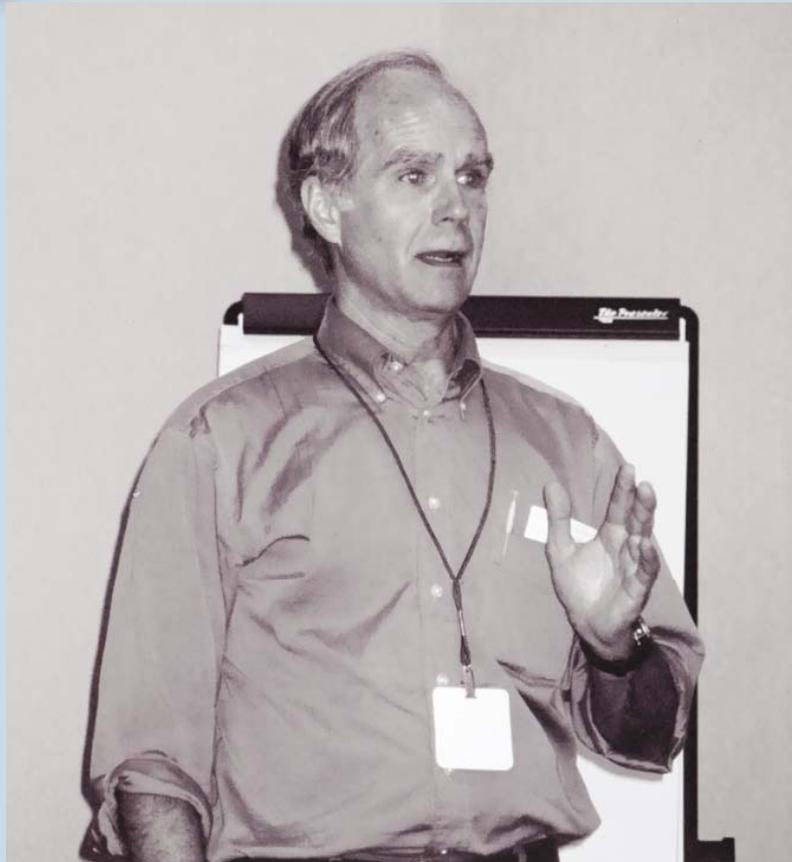


Pharmaceuticals Workshop 2005

Ken Geiser,
UMass Lowell
Center for
Sustainable
Production



Pharmaceuticals Workshop 2005



Dr. Ted Schettler

Board of Director's Meeting 2005



Site Investigation Brochures

2005

Site Investigation Matters

Taking the mystery out of dealing with contaminated property in Massachusetts

Whether you are buying, selling, or just have ownership in a piece of property, it is in your best financial interest to know what to do about possible chemical contamination at the property. Lending institutions often require environmental assessments of properties where there is a potential for contamination before they will consider financing to purchase or redevelop. In addition, contamination issues can trigger requirements on the part of the property owner to notify the Massachusetts Department of Environmental Protection (MA DEP) and to assess and clean up the contamination.

An site investigation should provide answers to key questions, including:

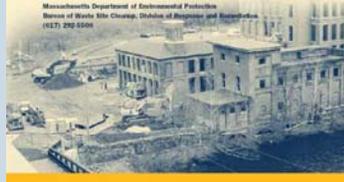
- Is there chemical contamination at the property?
- What kind of chemicals are present and at what concentrations?
- Do the contamination types and concentrations require notification of the MA DEP?
- What state and environmental media at the property are affected?
- Has the extent of the contamination been identified?

• What are the cleanup options, and how much time and money will it take to do the cleanup?

Having these facts is key to facilitating property transactions, obtaining redevelopment costs, identifying legal responsibilities, and conducting cost-effective cleanup actions in the most cost-effective way.

Not knowing the facts can cost you in terms of additional costs and delays, or even years of delays.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup, Division of Remediation and Investigation
(617) 290-5500



Site Investigation Matters

Taking the mystery out of dealing with contaminated property in New Jersey

Whether you are buying, selling, or just have ownership in a piece of property, it is in your best financial interest to know what to do about possible site contamination.

Lending institutions often require environmental assessments of properties where there is a potential for contamination before they will get involved. Information about contamination at a property becomes the foundation upon which all future financial and environmental decisions are made. The contamination issues affect the banks, the buyers, the sellers, and the New Jersey Department of Environmental Protection (NJ DEP).

The investigation provides the information to answer many key questions:

- Is cleanup required?
- How much needs to be remediated?
- What are the cleanup options?
- How much will cleanup cost?
- What are appropriate future uses?

Not knowing the facts can cost you - not only extra work, but also months of delays.

Getting your property's contamination issues straight is the key to accelerating through NJ DEP's requirements.

New Jersey Department of Environmental Protection
Site Remediation and Waste Management Program
(609) 292-1250



Site Investigation Matters

Taking the mystery out of dealing with contaminated property in New Hampshire

Whether you are buying, selling, or just have ownership in a piece of property, it is in your best financial interest to know what to do about possible site contamination.

Lending institutions often require environmental assessments of properties where there is a potential for contamination before they will get involved. Information about contamination at a property becomes the foundation upon which all future financial and environmental decisions are made. The contamination issues affect the banks, the buyers, the sellers, and the New Hampshire Department of Environmental Services (NH DES).

The investigation provides the information to answer many key questions:

- Is cleanup required?
- How much needs to be remediated?
- What are the cleanup options?
- How much will cleanup cost?
- What are appropriate future uses?

Not knowing the facts can cost you - not only extra work, but also months of delays.

Getting your property's contamination issues straight is the key to quickly meeting NH DES's requirements.

New Hampshire Department of Environmental Services
Waste Management Division
(603) 271-2000



Site Investigation Matters

Taking the mystery out of dealing with contaminated property in Rhode Island

Whether you are buying, selling, or just have ownership in a piece of property, it is in your best financial interest to know what to do about possible site contamination.

Lending institutions often require environmental assessments of properties where there is a potential for contamination before they will get involved. Information about contamination at a property becomes the foundation upon which all future financial and environmental decisions are made. The contamination issues affect the banks, the buyers, the sellers, and the Rhode Island Department of Environmental Management (RIDEM).

The investigation provides the information to answer many key questions:

- Is cleanup required?
- How much needs to be remediated?
- What are the cleanup options?
- How much will cleanup cost?
- What are appropriate future uses?

Not knowing the facts can cost you - not only extra work, but also months of delays.

Getting your property's contamination issues straight is the key to accelerating through RIDEM's requirements.

Rhode Island Department of Environmental Management
Office of Waste Management
(401) 222-2777



Site Investigation Matters

Taking the mystery out of dealing with contaminated property in Maine

Whether you are buying, selling, or just have ownership in a piece of property, it is in your best financial interest to know what to do about possible site contamination.

Lending institutions often require environmental assessments of properties where there is a potential for contamination before they will get involved. Information about contamination at a property becomes the foundation upon which all future financial and environmental decisions are made. The contamination issues affect the banks, the buyers, the sellers, and the Maine Department of Environmental Protection (ME DEP) Voluntary Response Action Program (VRAP).

Environmental site assessment provides the information to answer many key questions:

- Is cleanup required?
- How much needs to be remediated?
- What are the cleanup options?
- How much will cleanup cost?
- What are appropriate future uses?

Not knowing the facts can cost you - not only extra work, but also months of delays.

Getting your property's contamination issues straight is the key to accelerating through the VRAP process.

Maine Department of Environmental Protection
Bureau of Remediation and Waste Management
Voluntary Response Action Program (VRAP)
17 State House Station
Augusta, Maine 04333-0017
(207) 287-2051



Site Investigation Matters

Taking the mystery out of dealing with contaminated property in Vermont

Whether you are buying, selling, or just have ownership in a piece of property, it is in your best financial interest to know what to do about possible site contamination.

Lending institutions often require environmental assessments of properties where there is a potential for contamination before they will get involved. Information about contamination at a property becomes the foundation upon which all future financial and environmental decisions are made. The contamination issues affect the banks, the buyers, the sellers, and the Vermont Department of Environmental Conservation (VT DEC) will send someone the work to make sure the contamination is properly addressed.

The investigation provides the information to answer many key questions:

- What is the degree and extent of contamination?
- Is cleanup required?
- How much needs to be remediated?
- What are the cleanup options?
- How much will cleanup cost?
- What are appropriate future uses?

Not knowing the facts can cost you - not only extra work, but also months of delays.

Getting your property's contamination issues straight is the key to accelerating through VT DEC's requirements.

Vermont Department of Environmental Conservation
Waste Management Division
(802) 243-2800



Northeast Environmental Summit 2005



Shelley Metzenbaum, ECC & Bill Cass, NEWMOA

Northeast Environmental Summit 2005



Rob Guillemine & Beth Termini, EPA Region 1

Northeast Environmental Summit 2005



Lee Dillard Adams, MassDEP



Paul Richard, MA OTA

Northeast Environmental Summit 2005



Peter Cooke, ME DEP & Stephanie D'Agostino, NH DES

Northeast Environmental Summit 2005



Linda Darveau , EPA Region 1; Patricia Carrier, NH Ball Bearing
Co; & Judy Wlodarczyk, Connstep

Northeast Environmental Summit 2005



David Aucion,
Narragansett Bay Commission



Professor John Warner,
UMass Lowell

Northeast Environmental Summit 2005

Gary Gulka
VT DEC



EMFACT Launched 2005



EMFACT

Energy & Materials Flow and Cost Tracker

Sharon Yergeau, NH DES

"It would have been hard to predict 25 years ago just how much states would benefit from the scope & the depth of NEWMOA's activities on their behalf."



NEWMOA Chairs: 1999 - 2005

- 2005 - Anthony Giunta, NH DES
- 2004 - Sarah Weinstein, MassDEP
- 2003 - Mark Hyland, ME DEP
- 2002 - Dick Barlow, CT DEP
- 2001 - Skip Flanders, VT DEC
- 2000 - Terry Gray, RI DEM
- 1999 - Allan Ball & Mark Hyland, ME DEP

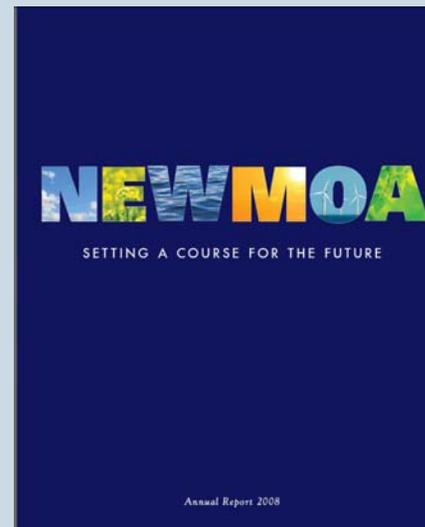
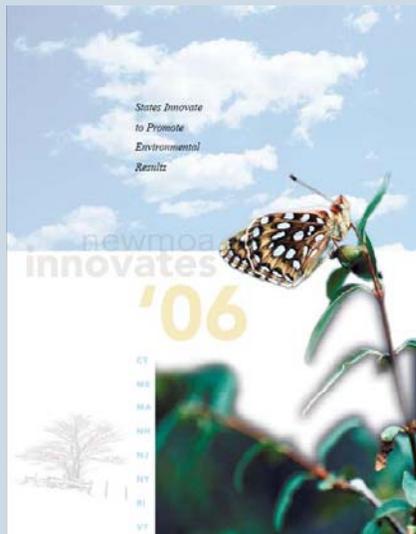
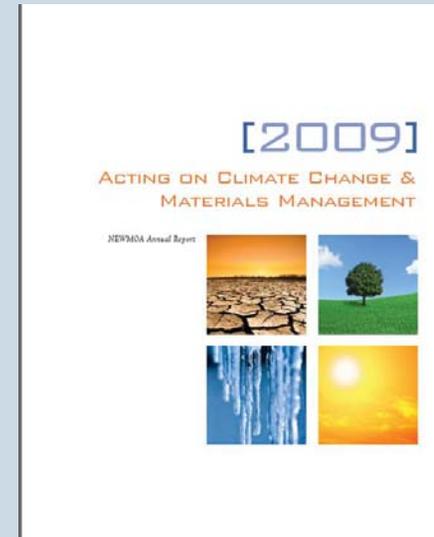
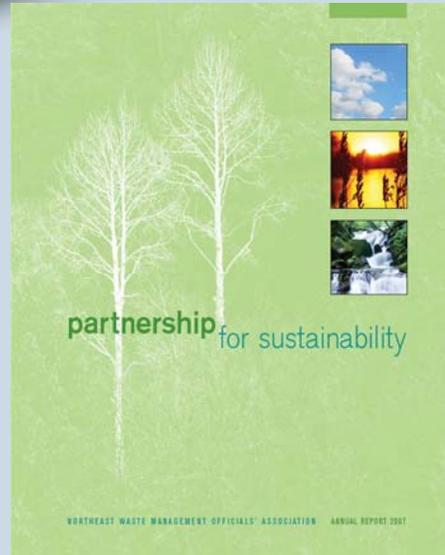
2006 Highlights

- Interstates ERP meeting held
- Vapor intrusion workshop held
- In-situ chemical oxidation workshop held
- Avian Flu workshop held
- Outreach to generators on lamp recycling conducted
- *MSW Flow Analysis* published

2006 Highlights

- Advanced Hazardous Waste Inspector workshop held
- Nation RCRA Corrective Action Conference held
- NEWMOA - NERC meeting on reuse & recycling of C & D held
- Assistance for mercury removal from schools provided

Annual Reports 2006 - 2009



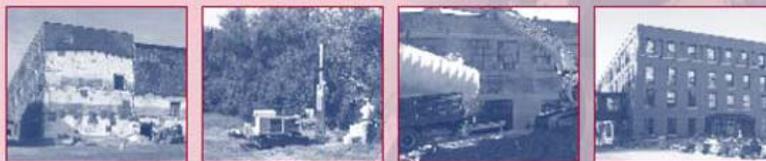
Waste Site Cleanup Brochures 2006

Improving Site Investigation

A guide for property owners, buyers and sellers, attorneys, bankers, insurance representatives, and their environmental consultants.

The 4C's of Successful Site Investigations

- 1 Comprehensive planning** *at the beginning of the project.*
- 2 Collection of sufficient data**, *both on and off the property.*
- 3 Clear reporting** *about what was done and why.*
- 4 Compliance** *with state Site Investigation (SI) report requirements.*



*A site investigation (SI) determines whether a property has been affected by chemical contamination and whether the contamination is at levels that require cleanup under state regulations. The concepts promoted in this brochure may or may not be **required** by state regulations. However, following the 4C's is more likely to result in a project that moves through the system faster and is more resource-efficient for all involved – responsible parties, consultants, and state regulators.*

2006 Mercury Conference



Northeast Regional
Mercury Science & Policy Conference



The image is a conference poster for the 2006 Northeast Regional Mercury Science & Policy Conference. At the top right is the NEIWPCC logo, which consists of a blue water drop icon followed by the text 'NEIWPCC'. The central graphic is a microscopic view of mercury particles, showing a large central cluster of dark, irregularly shaped particles with a bright, glowing core, surrounded by numerous smaller, spherical particles. A purple circular badge with the chemical symbol 'Hg' and the year '2006' is positioned to the right of the main cluster. Below the graphic, the text 'Northeast Regional Mercury Science & Policy Conference' is written in a serif font. At the bottom, three logos are displayed: NEWMOA (with a green map of the Northeast region), NESCAUM (with blue wavy lines), and EPA (with the eagle logo).

High Production Volume Chemicals 2006



First U.S. Conference on
CHARACTERIZING CHEMICALS IN COMMERCE:
USING DATA ON HIGH PRODUCTION VOLUME (HPV) CHEMICALS

DECEMBER 12-14, 2006
RADISSON INN, AUSTIN, TEXAS

*Presented by the U.S. EPA Office of Pollution Prevention & Toxics and
The Northeast Waste Management Officials' Association (NEWMOA)*



EXCHANGING IDEAS AND INFORMATION

*Conference Co-Sponsors: Environmental Council of the States, National Pollution Prevention Roundtable, and
Lowell Center for Sustainable Production*

FOR MORE INFORMATION: WWW.NEWMOA.ORG/HPV AND WWW.EPA.GOV/HPV

High Production Volume Chemicals 2006



Ginger Jordan-Hillier, Maine DEP

High Production Volume Chemicals 2006

Paul Richard,
MA OTA



Dental Amalgam Outreach 2006



DOING OUR PART

We collect, manage, and recycle all amalgam waste to protect the public and the environment.

WE WILL NEVER	WE WILL ALWAYS
Rinse scrap amalgam down the drain	Use only pre-encapsulated alloys and remove all elemental mercury from our office
	Collect and recycle ALL amalgam wastes including:
Dispose of scrap amalgam in the regular garbage	<ul style="list-style-type: none">• Used amalgam capsules• Extracted teeth containing amalgam (disinfected first)• Disposable amalgam traps and contaminated reusable traps• Used vacuum pump filters• Waste amalgam sludge from amalgam separator filters
	Install and maintain appropriate amalgam separators
Dispose of scrap amalgam or extracted teeth filled with amalgam in the red biohazard bag	Keep all records showing proof of mercury and amalgam waste recycling
	Collect and recycle previously settled mercury and amalgam sludge when replacing or repairing plumbing

It's the law in New York State, and it's the right thing to do!

For more information contact the NYS Department of Environmental Conservation at (518) 402-8705 or visit: www.dec.state.ny.us/website/dshm/redrecy/mercdent.htm

BMPs for Dental Amalgam 2006

**DENTISTS ARE DOING
THEIR PART TO
PROTECT THE
ENVIRONMENT**



They collect, manage, and recycle all mercury amalgam waste

**WHAT CAN
YOU DO?**

Ask your dentist about alternatives to amalgam fillings


 For more information visit:
www.cleanwaterNJ.org


 New Jersey Dental Association

Printed on recycled paper

The New Jersey Department of Environmental Protection's
**Best Management Practices
for Amalgam Waste**

**Protecting the
Environment**

DON'T

- DON'T** use bulk elemental mercury.
- DON'T** rinse traps or vacuum pump filters over drains or in the sinks.
- DON'T** throw or place the disposable trap, sludge from reusable trap, or vacuum pump filter or contents with regular garbage.
- DON'T** throw or place the disposable trap, sludge from reusable trap, or vacuum pump filter or contents into sharps containers or biohazard bag.
- DON'T** flush amalgam waste down the drain.
- DON'T** use cleaners with bleach or chlorine to clean vacuum system lines.

DO

- DO** use mercury-free material, when appropriate.
- DO** recycle all amalgam waste containing mercury. Store amalgam waste in airtight containers.
- DO** use prepackulated alloys. Recycle used disposable capsules containing mercury.
- DO** disinfect and store amalgam pieces from removal and restoration with amalgam waste.
- DO** install chair-side traps in each cuspidor and filters in the vacuum system of every operator where restoration work is done.
- DO** change and clean chair-side traps and vacuum filters.
- DO** have a licensed recycling contractor, mail-in service or hazardous waste hauler remove amalgam waste.


 For more information visit:
www.cleanwaterNJ.org


 New Jersey Dental Association

Printed on recycled paper

Tanning Lamp Recycling Outreach 2006



All generators of used fluorescent and other mercury-containing lamps ARE RESPONSIBLE BY LAW for their proper management.

- STEP 1: CONTACT A LAMP RECYCLING COMPANY.** Visit www.newmoa.org/lamprecycle for a list.
- STEP 2: CAREFULLY REMOVE SPENT LAMPS** according to the tanning bed manufacturer's directions.
- STEP 3: DO NOT CRUSH OR BREAK LAMPS** - lamps that contain mercury pose significant health risks.
- STEP 4: PLACE LAMPS IN THE BOX** provided by your lighting sales company or a lamp recycler.
- STEP 5:** Once the box is full, **HAVE YOUR LAMPS PICKED UP FOR RECYCLING.**

For more information, contact Tom Metzner at the Connecticut Department of Environmental Protection at 860-424-3242.



Look for the (Hg) symbol, which means the lamp contains mercury and must be recycled.



Printed on recycled paper.

2007 Highlights

- Climate - Waste Action Plan initiated
- Training on school chemical cleanouts held
- Comments to EPA's on revisions to the definition of solid waste submitted
- BUD database improvement started
- National Chemicals in Commerce Conference & workshops held

2007 Highlights

- Paperless meetings initiated
- “Environmental Insurance & Brownfields” workshops held
- Vapor instruction workshops held
- Characterization of chlorinated solvent sites workshops held
- Advanced Hazardous Waste Inspector workshop held
- Common Measures Project implemented

Steve Hammond, NYS DEC

“NEWMOA has served the residents & communities of its collective states on many efforts vital to their environmental & ecological sustainability. The worthiness & value created by these efforts is a reflection of the dedication of the NEWMOA staff & the representatives from the States. People make the difference & in the case of NEWMOA, the collaboration has been excellent over its timeline. There are many to thank for their work.”



Steve Hammond *cont.*

“The accomplishments are markers for history that provide those who follow with guidance & wisdom as they too strive to help our society create a sound quality of life for future generations. I hope that the “Spirit of NEWMOA”....its wonderful people... can weather the storms ahead & continue to provide quality help on its important, worthy goals.”

Mercury Success Stories in the Northeast 2007

NEWMOA

SEPTEMBER 2007

Northeast States Succeed in Reducing Mercury and Continue to Address Ongoing Challenges

Prepared by Northeast Waste Management Officials' Association (NEWMOA) Staff with Assistance from the NEWMOA Mercury Workgroup & Interstate Mercury Education and Reduction Clearinghouse Committees

Since 2000, states in the Northeast have enacted major legislation to address mercury use in products and ultimately in solid and hazardous waste. This legislation includes bans and phase-outs on the sale of certain products, requirements for product labeling, and requirements for manufacturers to report on their use of mercury in products that are sold in the region. These laws affect a wide variety of products, including mercury thermometers, thermostats, switches and relays and products that contain these components, various measuring devices, linear and compact fluorescent bulbs, button batteries, and others.

In addition to these requirements, state environmental agencies have initiated mandatory and voluntary programs for collecting certain mercury-containing products at their end-of-life. Mercury-added products that have been targeted for collection and recycling include convenience light switches in cars; linear and compact fluorescent bulbs; fever thermometers; thermostats; dental amalgam in wastewater; and various measuring devices, such as dairy manometers and sphygmomanometers (i.e., blood pressure cuffs). Finally, state programs have also focused on eliminating or reducing the use of mercury and mercury-added products by various types of facilities, such as schools and hospitals, and removing the existing inventory of these products at those locations.

This paper presents a brief quantitative summary of the mercury reduced from the waste or wastewater stream as a result of these key initiatives in the Northeast, where data are available. Overall, the state programs collected and recycled approximately 7.5 tons of mercury through product collection and recycling

initiatives in the region from 2000 to 2006. The states' best estimate of the mercury that has been eliminated through restrictions on product sales in the region from 2000 to 2006 is approximately 14 tons. This is the first attempt by the states in the region to quantify the overall results of their regulations and programs, and this paper outlines the methods NEWMOA used to estimate these reductions and describes some of the associated uncertainties.

The reduction estimates presented here are conservative because, while state and local governments have initiated a number of programs to reduce and collect mercury, they have not been able to fully quantify the associated reductions in mercury from all of those efforts. Furthermore, the estimates of the impacts of the state phase-out requirements and product bans are conservative because the estimates are based on information from manufacturers of the products, and the states continue to find additional products that must be phased out and to identify product manufacturers that have not been reporting their mercury use as required by state laws. Also, if a company reported that it was at some point in the middle of a year that it stopped selling its product or eliminated the use of mercury in its products, NEWMOA used a conservative approach in estimating the reduction for that year.¹

Overview of Major Sources of Mercury in Waste

A recent report, titled *Mercury in Products in Massachusetts: Summary and Analysis of the Mercury-added Products Database, June 2006*, (available at

1. For example, if a company reported that it eliminated mercury use in products it was selling in the region as of June 2004, NEWMOA estimated the reductions associated with that change starting in 2005, rather than trying to make estimates or reductions for partial years.

Board of Director's Meeting 2007



Greening Director's Meetings 2007 - Present

The first paperless Board of Directors' meeting was in June 2007. Instead of using traditional binders full of meeting materials, the Board used laptop computers. The average amount of paper used in each quarterly Directors' meeting was over 14,000 sheets of paper.



Since June 2007
NEWMOA has saved
252,000 sheets of paper

NE A & P2 Roundtable 2007



2008 Highlights

- EPP Consortium launched
- Research on gypsum wallboard recycling started
- Training program on agricultural plastics recycling started
- ERP inspections for SQGs completed & data collected
- Performance indicators for auto body sector developed

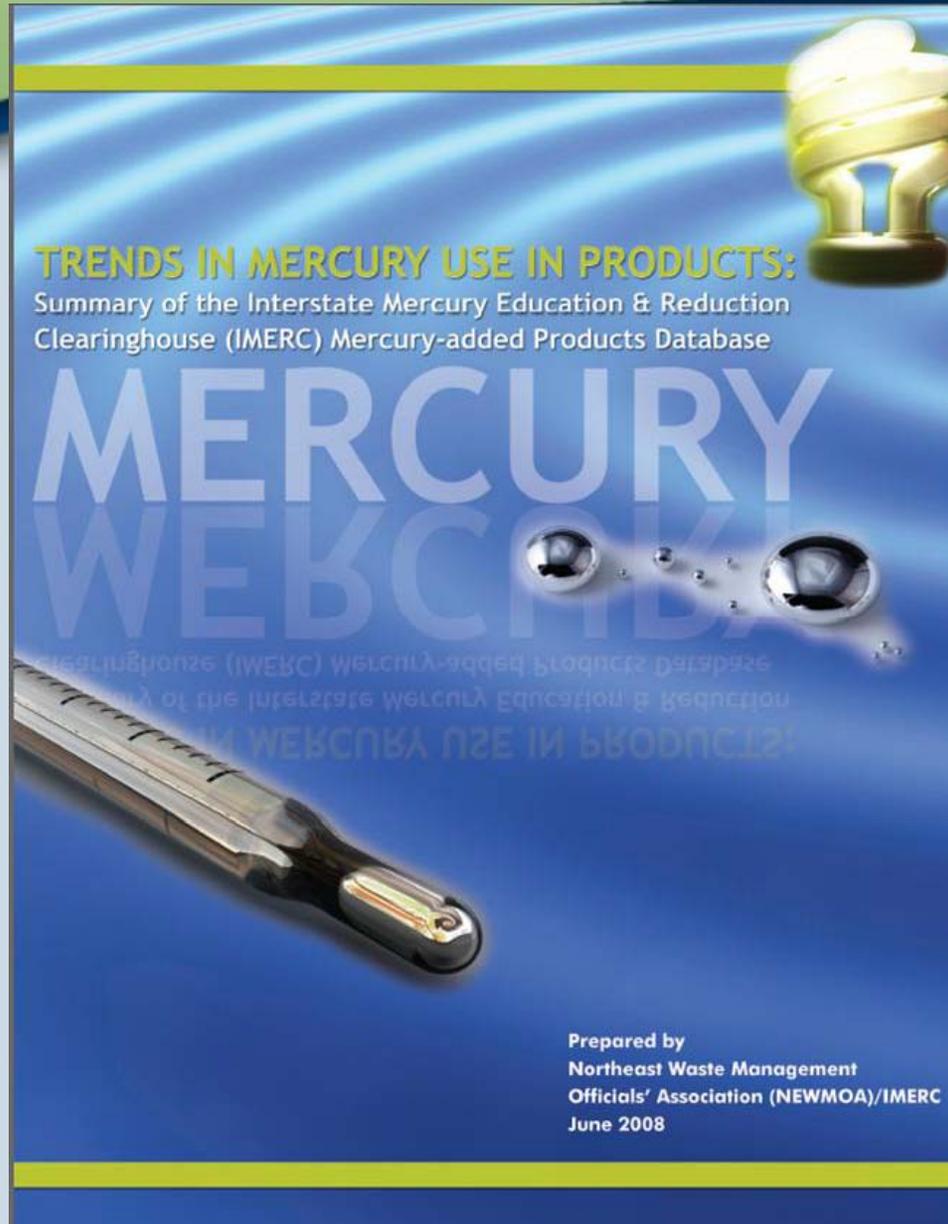
2008 Highlights

- *Trends in Mercury Use in Products* published
- “Northeast States Succeed in Reducing Mercury” published
- Disaster debris management coordination meetings held
- Safer Chemicals Workgroup started
- Hospitality Workgroup formed

2008 Highlights

- Advanced Hazardous Waste Inspector workshop held
- Remediation of Chlorinated Solvents workshop held
- Workshop on renewable energy on waste sites held
- P2 Results for the Region reported
- Workshops & meetings on cleanup of broken CFLs held

Trends in Mercury Use Report 2008



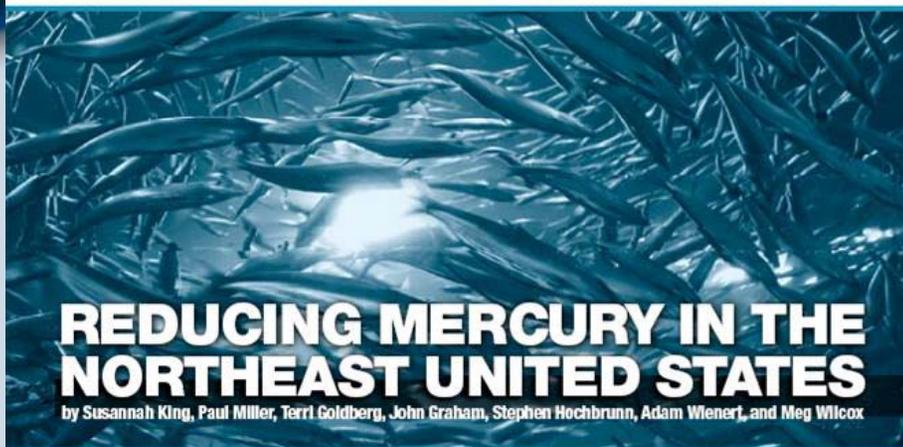
NYS School Chemical Cleanout 2008

Deb Knight,
NYS DEC
with HW
contractors



Reducing Mercury in the Northeast 2008

feature



Over the past 10 years, the states in the Northeast United States—for purposes of this article, the Northeast States are Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, and Vermont—have put tremendous effort into regional approaches to reduce mercury in the environment. In 1998, the New England Governors (NEG) and Eastern Canadian Premiers (ECP) Committee on the Environment formed a regional mercury task force with a goal of virtually eliminating all in-region human-related sources of mercury emissions and discharges. This initiative was instrumental in jump-starting mercury reduction programs across the region.

The states added momentum in 2007 when the six New England states and New York developed a regional proposal to establish a Northeast Mercury Total Maximum Daily Load (TMDL) under the U.S. Clean Water Act. The U.S. Environmental Protection Agency (EPA) approved the regional Northeast Mercury TMDL request in December 2007.

The Northeast States, through their state mercury reduction programs, are achieving significant and rapid reductions in mercury releases from in-region pollution sources, and are beginning to see indications that these reductions are resulting in lower accumulated mercury levels in the environment.

The primary concern associated with mercury is human exposure through the consumption of fish contaminated with this toxic metal. The mercury that accumulates in fish primarily originates from air emissions; sources include the burning of coal at power plants, burning of mercury-containing products at municipal waste combustors and medical waste incinerators, burning of sewage sludge that contains mercury from dental and other uses, and releases attributable to broken mercury-containing products (e.g., thermometers). Mercury that is released to the air returns

Susannah King is an environmental analyst and Stephen Hochbrunn is the communications manager for the New England Interstate Water Pollution Control Commission, Lowell, MA. Paul Miller is deputy director and John Graham is a project manager with the Northeast States for Coordinated Air Use Management, Boston, MA. Terri Goldberg is deputy director, Adam Wienert is the Interstate Mercury Education and Reduction Clearinghouse coordinator, and Meg Wilcox is a former project manager, all with the Northeast Waste Management Officials' Association, Boston, MA. E-mail: priller@nescsum.org.

Kim Trella, CT DEEP



"I have appreciated, over the last 14 years in P2, the Roundtable as a place where I could hear about the experiences of other states & how various challenges could be met. The most rewarding times were when we had annual face-to-face meetings. Sometimes you learned as much or more over a meal than in a structured environment. As a public servant, it has been my pleasure to participate in the NE A & P2 Roundtable for these many years. Thanks NEWMOA & wishing you many more years as an effective & helpful organization."

Board of Director's Meeting 2008



MA Oil Spill Response Training 2008



MA Oil Spill Response Training 2008



NE A & P2 News Through the Years

Vol. 18 No. 1 Spring 2008



Northeast Assistance & Pollution Prevention News

FEATURE ARTICLE
Assistance & Pollution Prevention for the Hospitality Industry

The great beauty, historic sites, unique culture, recreational areas, charms, and other attractions bring large numbers of tourists to the Northeast every year. As a result, tourism is a major industry and a significant contributor to the state's economy, particularly for Northern New England. There is a growing interest in greening the hospitality industry, both to reduce its impact on the environment — particularly emissions of greenhouse gases, but also to attract tourists and conventions interested in participating facilities that are actively involved in implementing more sustainable practices.

The hospitality industry presents a major opportunity to combine economically and environmentally sustainable practices, because it incorporates and spans a wide array of supply chains, services, and activities. This sector of the economy, more so than most, is highly dependent on a clean and secure environment, so it stands to benefit significantly from pollution prevention (P2) measures. Opportunities for P2 exist in such areas as water and energy efficiency, waste reduction, chemical usage, pest management, and procurement of environmentally preferable products.

The following article provides a description of some of the green hospitality efforts underway in the Region by both government agencies and a private organization. The article also presents some of the environmental results that have been realized in Maine and Vermont.

Continued on page 2

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Spring 2008 P2 for Hospitality

Vol. 19 No. 2 Fall 2009



Northeast Assistance & Pollution Prevention News

FEATURE ARTICLE
Greening Government

Are you the person in your office that is constantly reminding your co-workers to recycle? Do you go around turning off computers at the end of the day? Do you want your workplace to be as green as you are? You're not alone. In a survey commissioned by National Geographic in February 2008, more than 80 percent of U.S. workers polled said that they believe that working for a company or organization that makes the environment a top priority is important. As a result, institutions, government agencies, and businesses are greening their operations and products and forming "green teams" to reduce waste generation, start recycling programs, reduce energy, organize carpools, and much more.

Local, state, and federal environmental agencies in the Northeast are increasingly promoting green practices to a wide variety of audiences within their jurisdictions while at the same time developing initiatives to "walk the talk" and demonstrate sustainability leadership. The programs described below have initiated a wide variety of greening government approaches that provide models from which others can learn.



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Fall 2009 Greening Government

Vol. 20 No. 1 Spring 2010



Northeast Assistance & Pollution Prevention News

FEATURE ARTICLE
Celebrating 20 Years of Pollution Prevention

Communities around the U.S. recently celebrated the 40th anniversary of Earth Day by reflecting on what has occurred and what challenges lie ahead. There's another anniversary this year that is also worth celebrating — 20 years of pollution prevention action. In 1990, President George H.W. Bush, signed The Federal Pollution Prevention Act (PPA). This law focused industry, government, and public attention on reducing the amount of pollution through cost-effective changes in production, operations, and raw materials use (see Sisk, Part 1). Pollution prevention (P2) includes practices that increase efficiency and conservation in the use of energy, materials, water, or other natural resources. On the occasion of the 20th Anniversary of the Act, this Newsletter is dedicated to reviewing the Act and the progress that has been made in the Northeast toward achieving its goals.

Many of the P2 "pioneers" in government cut their teeth in the waste programs, particularly hazardous waste. These programs blossomed in the 1980s to prevent future hazardous waste sites. However, they had at least one shortcoming — the regulations allowed a facility to generate an unlimited amount of hazardous waste, provided it was managed properly. Similarly, toxic and hazardous materials could be used in any amounts as process inputs. Other regulatory programs, such as those focused on air emissions and wastewater discharges, strictly limited, through standards and permits, the amounts of pollution released from smokestacks or pipes.

20 Years OF POLLUTION PREVENTION

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Spring 2010 20 Years of P2

2009 Highlights

- Interstate Chemicals Clearinghouse (IC2) started
- *Climate-Waste Action Plan* published
- *Construction & Demolition Waste Management* published
- Updated BUDs database launched
- Gypsum wallboard project launched
- *Review of CFL Recycling* published

2009 Highlights

- Advanced Hazardous Waste Inspector workshop held
- Region 2 P2 meeting held
- P2 Internship Topic Hub published
- *Common Measures Report* published
- Greener cleanup workshop held
- Contaminated sediments workshop held
- Annual Brownfields meeting held

P2 Results 2004 - 2009

Using the P2 Results Data System, programs in Regions 1 & 2 documented that they have worked with companies, institutions, government agencies, and others to reduce their operating costs by an estimated \$1.6 billion.

They also documented the reductions in materials and wastes:

- 75,706 tons of hazardous materials
- 9,982 tons of hazardous waste
- 2,503 tons of non-hazardous materials
- 2,714 tons of solid waste



National Environmental Summit 2009



Rachel Smith,
NEWMOA

Board of Director's Meeting 2009



2009 Mercury Science & Policy Conference



WELCOME

**2009 Mercury Science & Policy Conference
With a Special Focus on the
Great Lakes & Northeast Regions**

**Union League Club of Chicago
November 17-18, 2009**

2009 Mercury Science & Policy Conference



Terri Goldberg, NEWMOA

2009 Mercury Science & Policy Conference



Beverly Migliore, Rhode Island DEM

2009 Mercury Science & Policy Conference

Mark Smith,
MA DEP



2009 Mercury Science & Policy Conference



Stephanie
D'Agostino, NH DES

States Common Measures Project 2009

THE STATES COMMON MEASURES PROJECT

Final Report

Revised: December 3, 2009

*Prepared by: Steven DeGabriele, Massachusetts Department of Environmental Protection,
Susan Peck, Massachusetts Department of Environmental Protection and
Tara Acker, Northeast Waste Management Officials Association.*

United States Environmental Protection Agency State Innovation Grant,
May 31, 2006 – May 31, 2009

*An electronic copy of this report and other supporting materials can be found at
<http://www.newmoa.org/hazardouswaste/measures/index.cfm>*

2010 Highlights

- Commercial Waste Paper Recycling Summit held & Workgroup formed
- Advanced Hazardous Waste Inspector workshop held
- 20th Anniversary of P2 celebrated
- *Mercury-Added Products Found at Drinking Water & Wastewater Treatment Facilities* published

2010 Highlights

- P2 & Sustainability conference in Puerto Rico held
- *Promoting Greater Recycling of Gypsum Wallboard* published
- BUD database improvements completed
- ERP for Auto Body Shops in Region 5 initiated

2010 Highlights

- Mercury Science & Policy Conference held
- “Enhanced In-Situ Bioremediation” workshop held
- “Remediation of Contaminated Sediment Sites” workshop held
- Annual States-EPA Brownfields meeting held

Real-Time Data Collection 2010



Real-Time Data Collection 2010



2010 Conference to Advance P2 in Puerto Rico & US Virgin Islands

EXPANDING BUSINESS VALUE THROUGH POLLUTION PREVENTION & SUSTAINABLE PRACTICES

*A Green Business Conference Focused on the Manufacturing & Hospitality Industries
in Puerto Rico & the U.S. Virgin Islands*

MAY 18 - 19, 2010
CARIBE HILTON
SAN JUAN, PUERTO RICO

SPONSORED BY



WWW.NEWMOA.ORG/PREVENTION/CWM/PR/

2010 Conference to Advance P2 in Puerto Rico & US Virgin Islands

Carl Axel-Soderberg,
Director of the
Caribbean
Environmental
Protection Division,
US EPA Region 2



2010 Conference to Advance P2 in Puerto Rico & US Virgin Islands



Andy Bray,
NEWMOA

2010 Conference to Advance P2 in Puerto Rico & US Virgin Islands

Joe Bergstein,
US EPA Region 2



2010 Conference to Advance P2 in Puerto Rico & US Virgin Islands



Erik Garcia, Pfizer; Rafael Pagan, PRMA;
& Paul Lockwood, NH DES

Mike DiGiore, NJ DEP

"My earliest recollection of NEWMOA goes back to the 1990's when I was working on New Jersey's Facility-Wide Permit project and Terri, Jennifer, & Andy were leading discussions on integrating P2 into single-media programs. Which we're still talking about! Over the years, I have come to depend on NEWMOA for support, encouragement, & technical & policy expertise. I have also developed a deep respect for NEWMOA & a strong friendship with staff, particularly Terri & Andy, who like me are 'P2 old timers'."



Enhanced In-Situ Bioremediation 2010

Jennifer Griffith
NEWMOA



Agricultural Plastics Recycling 2010

RECYCLING DAIRY PLASTICS

Silage Bags, Bunker Covers, Bale Wrap, Containers, etc.

Best Management Practices to
Keep Plastic Clean Enough to Recycle



- **AVOID MUD and MANURE** as much as possible. Don't run tractor over plastic. Locate silage bags and bales on a concrete pad, asphalt, or on high, dry ground.

- **CUT FILM BEFORE REMOVING SILAGE.** Cut into pieces of size and weight one person can handle.

- **SHAKE or BRUSH OFF** forage, soil, stones.

- **ROLL or FOLD DRY FILM** into bundles about the size of a large pillow (2'x 3'). Stored film must be dry!



- **SEPARATE DIFFERENT PRODUCTS and TYPES.** Do not mix different products in one bale (e.g., separate bale wrap from silage bags and bunker covers; twine or bale net from bale wrap, etc.). Separate cleaner film from dirtier. No PVC accepted.

- **CHEMICAL CONTAINERS:** Triple rinse to clean. See Ag Container Recycling Council (ACRC) website: www.acrecycle.org.



- **STORE UNDER COVER:** Keep clean and dry as possible — e.g., store on pallets in a barn, trailer, hay wagon or outside under a tarp.

- **BALING:** Make 1000 - 1200 lb bale. Label with permanent marker: type of material, date, contact/phone/location.

Recycling Ag Plastics Project

Life Cycle Stewardship of Agricultural Plastics
<http://environmentalrisk.cornell.edu/AgPlastics>
Mobile: 607-216-7242 Office: 607-255-4765



The Recycling Ag Plastics Project (RAP) is developing infrastructure and markets for waste film and rigid plastics from dairy, livestock and horticulture. RAP is a collaboration of Cornell University with agriculture producers and agriculture, environment, economic development and solid waste/recycling agencies, organizations and businesses. Funding has come from the NY Farm Viability Institute, NYS DEC Environmental Protection Fund, US EPA Region 2 Pollution Prevention, NYS Empire State Development Environmental Services Unit, USDA Rural Utilities Services, NEWMOA, USDA Hatch/Smith-Lewis. The recommendations expressed in this material are solely the responsibility of the authors and do not necessarily represent the official views of any of these agencies.

RECYCLING HORTICULTURAL PLASTICS

Best Management Practices to
Keep Plastic Clean Enough to Recycle



MULCH and OTHER THIN FILMS

- **CUT** into pieces of size and weight one person can handle.
- **BRUSH or SHAKE** to remove clumps of soil, stones, plant matter.
- **ROLL or FOLD DRY FILM** into bundles about the size of a large pillow (2'x 3').

HIGH TUNNELS, HOOPHOUSE COVERS

- **CUT INTO SECTIONS to FEED "NIP ROLLER"** Dimensions will depend on thickness and flexibility of film.

RIGID PLASTIC POTS, CONTAINERS, DRIP TAPE, TRAYS



- **STACK POTS and TRAYS:** Knock out loose soil. Keep dry. Tie onto pallet or compress with baler.
- **CHEMICAL CONTAINERS:** Triple rinse to clean. See Ag Container Recycling Council (ACRC) website: www.acrecycle.org.

STORING PLASTIC, MAKING BALES

- **STORE UNDER COVER:** Keep clean and dry as possible — e.g., store on pallets in a barn, trailer, hay wagon or outside under a tarp.
- **DO NOT MIX DIFFERENT PRODUCTS in a BALE** Separate clean films from dirtier. No PVC accepted.
- **BALING:** Make 1000 - 1200 lb bale. Label with permanent marker: type of material, date, contact/phone/location.



Recycling Ag Plastics Project

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Interstate Chemicals Clearinghouse 2010

INTERSTATE CHEMICALS



CLEARINGHOUSE

Waste Site Cleanup Workshops

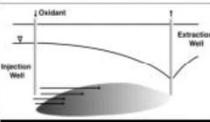
Sept. 2006



IN-SITU CHEMICAL OXIDATION

Sponsored By
NEWMOA

Connecticut
Maine
Massachusetts
New Hampshire
New Jersey
New York
Rhode Island
Vermont



2 Locations:

September 26, 2006
Sheraton in Portsmouth, NH

September 27, 2006
Crowne Plaza in Worcester, MA

Online registration at: www.newmoa.org/cleanup/cwm/isco

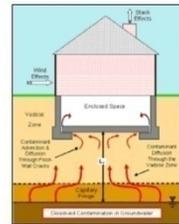


VAPOR INTRUSION IN COMMERCIAL AND INDUSTRIAL BUILDINGS: ASSESSMENT & MITIGATION

Co-Sponsored By:

NEWMOA

Connecticut
Maine
Massachusetts
New Hampshire
New Jersey
New York
Rhode Island
Vermont



and

Brown University

Superfund Basic Research Program (SBRP)

2 Locations:

September 23, 2008
Westford Regency Inn & Conference Center in Westford, MA

September 24, 2008
Brown University in Providence, RI

Online registration at: www.newmoa.org/cleanup/cwm/vapor2008

Sept. 2008

April 2010

Remediation of Contaminated Sediment Sites



Sponsored By:
NEWMOA

Connecticut
Maine
Massachusetts
New Hampshire
New Jersey
New York
Rhode Island
Vermont



Offered at Two Locations:

Wednesday, April 28, 2010
The Harvest Restaurant in Portfret, CT

Thursday, April 29, 2010
Westford Regency Inn in Westford, MA

Online Registration: www.newmoa.org/cleanup/cwm/sediments10

ECOLOGICAL RISK ASSESSMENT



Sponsored By:
NEWMOA

Connecticut
Maine
Massachusetts
New Hampshire
New Jersey
New York
Rhode Island
Vermont

DATES & LOCATIONS

September 13, 2011
Westford Regency Inn
Westford, MA

September 14, 2011
Quinebaug Valley Community
College, Danielson, CT



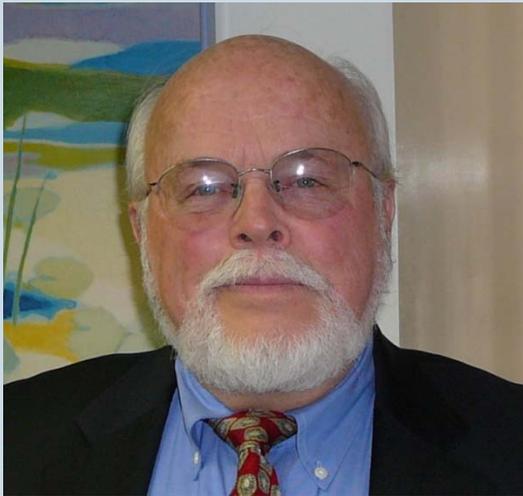
ONLINE REGISTRATION

www.newmoa.org/cleanup/cwm/eco/index.cfm

The registration deadline is **September 8, 2011**.
Participation is limited — early registration is advised.

Sept. 2011

William F. Cass, Executive Director 1991 - 2010



“The opportunity that NEWMOA provides for comparing notes among state & federal directors has to be a top benefit of membership. Training for state program professionals is another critical core benefit; all the more now since NEWMOA has become the only available source of training for states on hazardous waste & site cleanup program issues.”

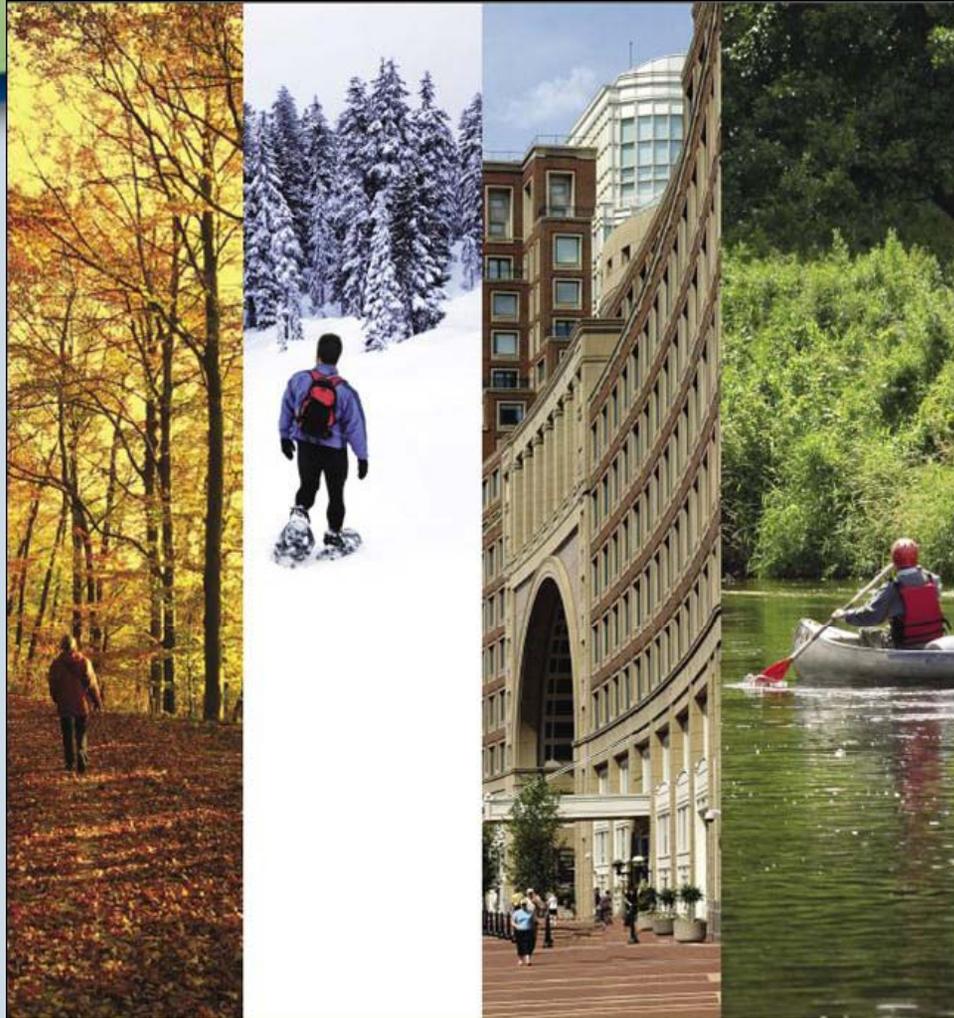
The above exemplify the clear & compelling reasons that led the founders to establish the Association 25 years ago. NEWMOA is just as important today as it was then.”

William F. Cass *cont.*

“The mercury program is NEWMOA’s most impressive effort. We were involved from start to finish, effectively supporting & facilitating state efforts, which led to a coordinated consensus that has secured many tons of mercury from release to the environment. IMERC is a wonderful example of successful interstate cooperation & collaboration that provides a model approach. All who participated should be proud of this ongoing remarkable success.”

2010 Annual Report

Working
Together to
Protect
Our Quality
of Life



working together to protect our quality of life >>

NEWMOA
2010 annual report

2011 Highlights

- “Ecological Risk Assessment” Workshop held
- Annual States-EPA Brownfields meeting held
- Advanced Hazardous Waste Inspector workshop held
- Sustainable lodging network launched
- Green chemistry workgroup launched

2011 Highlights

- Mercury-added Products Database e-filing developed
- In-Situ chemical oxidation workshop held
- Contaminated soils initiative launched
- IC2 publically launched
- Chemical Policy Database managed

2011 Highlights

- NEWMOA incorporated
- P2 data collection tool launched
- IC2 state priority chemicals lists database developed
- Wet cleaning technology tradeshow developed
- Survey of waste paper users initiated
- Region 2 P2 Meeting

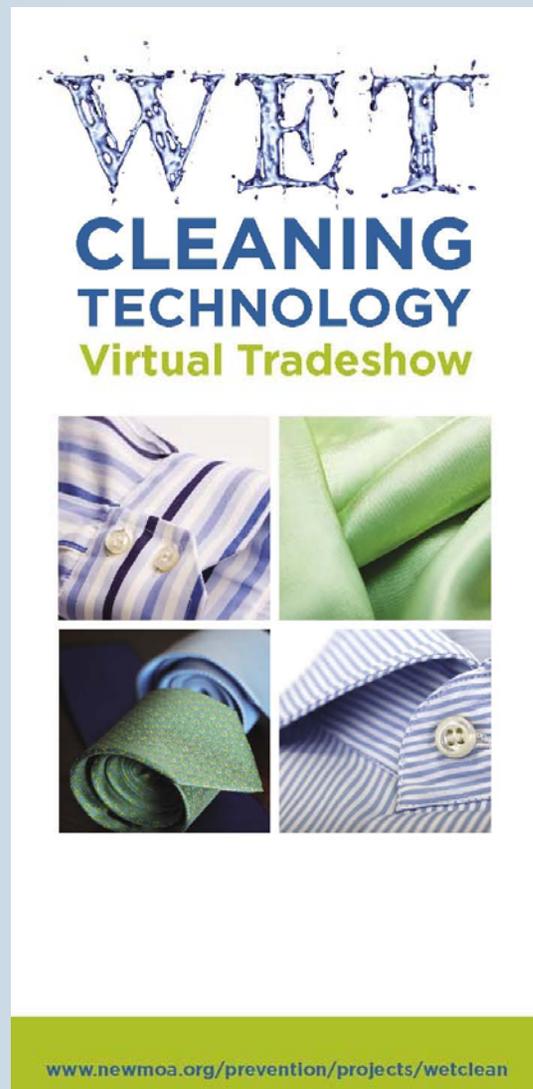
National Sustainable Lodging Network September 2011

National Sustainable Lodging Network
www.SustainableLodging.org



Quality Information and Connections
in the Field of Sustainable Lodging

Wet Cleaning Virtual Tradeshow



Latest NE A & P2 News

Vol. 21 No. 1 Spring 2011



NORTHEAST Assistance & Pollution Prevention News

FEATURE ARTICLE

Green Chemistry & Engineering in the Northeast



Green chemistry is the design of chemical products and processes that reduce or eliminate the use or generation of hazardous substances across the entire life cycle of a product, including its design, manufacture, and use. Green engineering is the design, commercialization and use of processes and products that are feasible and economical while reducing the generation of pollution at the source and minimizing the risk to human health and the environment. These concepts and approaches are complementary and frequently practiced together and are an essential aspect of pollution prevention. See page 3 for a description of the 12 principles of green chemistry.

State pollution prevention (P2) programs have long promoted the adoption of green chemistry and engineering among their clients. This includes helping companies to utilize the products of green chemistry and implement green engineering processes, developing and implementing environmentally preferable purchasing, and creating curriculum and educational opportunities at high schools and colleges. The following pages provide some examples of these efforts, a roundtable discussion with two green chemistry leaders in the region, and a description of a new multi-state regional initiative.

Maine Reduces Chlorine in Swimming Pools

In December of 2010, the Maine Department of Environmental Protection (ME DEP)'s Business Assistance Program worked with two public swimming pool owners to explore alternative technologies to reduce their use of chlorine. This was a voluntary project completed with funding from the U.S. Environmental Protection Agency (EPA). Chlorine

(continued on page 2)

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NEWMOA Chairs: 2006 - 2011

- 2011 - Sarah Weinstein, MassDEP
- 2010 - Yvonne Bolton & Bob Kaliszewski, CT DEP
- 2009 - Gary Gulka, VT DEC
- 2008 - Ron Gagnon, RI DEM
- 2007 - Frank Coolick, NJ DEP
- 2006 - Dave O'Toole, NYS DEC

Tom Getz, RI DEM

"I was involved as a NEWMOA director during the early years. We spent a lot of time in the 1980s building relationships with each other & EPA. Our yearly meetings in Waterville Valley were full of discussions on regional topics of concern. EPA Region I was good at reaching out to their counterparts in DC to let them hear of our needs, strengths, & our capacity to cooperate to solve problems."

Tom Getz *cont.*

“When I left the organization, we had made great progress in P2 program support, training , & outreach. The group also began to write white papers on issues of regional concern, like trans-border solid waste disposal & hazardous waste disposal / generation capacity. In the 8 years I was active in NEWMOA, it changed from an organization trying to find itself, to one that was a leader in developing solutions to tough problems concerning waste issues.”

Current Mission

To develop & sustain an effective partnership of states that helps achieve a clean, healthy, & sustainable environment by exploring, developing, promoting, & implementing environmentally sound solutions for...

Current Mission

- Reducing materials use & preventing pollution & waste,
- Properly reusing & recycling discarded materials that have value,
- Safely managing solid & hazardous wastes, &
- Remediating contaminated sites.

Thanks to all of the NEWMOA Staff

Anne

Bill

Lisa

Andy

Rob

Sam

Jennifer G.

Andrea

Rachel

Lois

Terri

Jennifer S.

Karen

Maureen

Erin

Hannah

Nate

Adam

Norm

Carole

Susan

John

Meg

Tara

Mary

Sally

Current NEWMOA Staff



Terri Goldberg, Nate Bisbee, Andy Bray, Adam Wienert
Lois Makina, Rachel Smith, Jennifer Griffith

Challenges for the Future - 2036

- ❖ Maintaining State Hazardous & Solid Waste Program Capacity & Institutional Knowledge & Skills
- ❖ Advancing & Implementing Use of Alternative Compliance Strategies
- ❖ Promoting Economic Competitiveness, Clean Tech Economy, & Green Jobs
- ❖ Sustaining & Funding State Programs



Challenges for the Future - 2036



- ❖ Reducing Greenhouse Gas Emissions
- ❖ Adapting to Climate Change
- ❖ Advancing Sustainable Materials Management
- ❖ Cleaning-up the Backlog of Waste Sites Using Sustainable & Green Practices
- ❖ Innovating & Utilizing Multi-Media Approaches to Regulatory Compliance

Challenges for the Future - 2036

- ❖ Reducing Toxics in Products, Processes, & Waste
- ❖ Promoting Safer Alternatives & Green Chemistry & Engineering
- ❖ Mitigating Pollution from Emerging Technologies
- ❖ Green Labels & Certification Programs



Challenges for the Future - 2036

- ❖ Product Stewardship
- ❖ Environmentally Preferable Purchasing
- ❖ Expanding Reuse & Recycling of Solid Waste



Challenges for the Future



- ❖ Conserving Energy & Water
- ❖ Conducting Community Outreach & Improving Environmental Justice
- ❖ Measuring & Evaluating Results & Progress
- ❖ Adapting & Responding to New Waste Management Technologies

On to the Next 25 Years!

**Thank you for
your support!**

