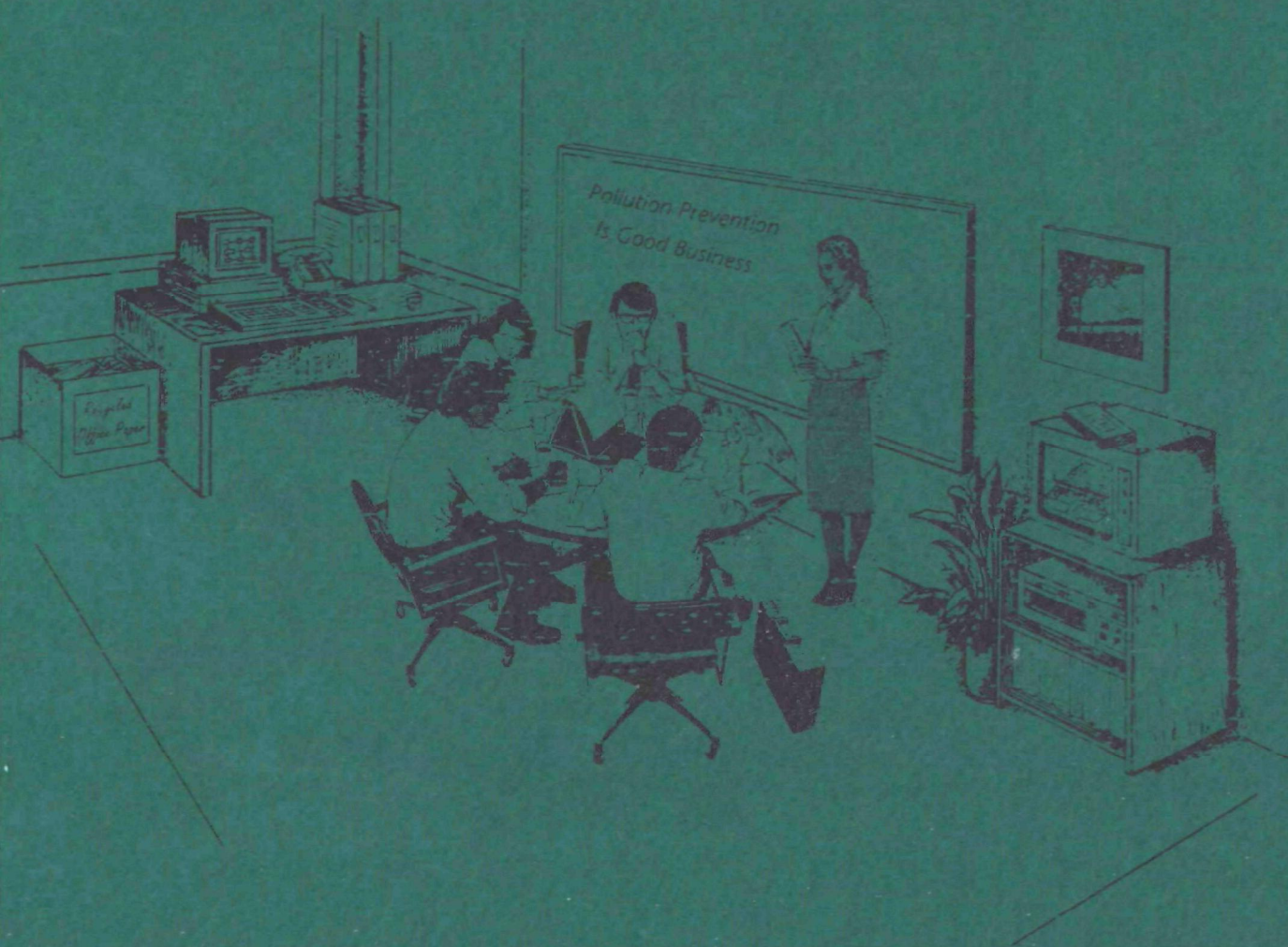


EPA

# Pollution Prevention Training Opportunities In 1990



# Pollution Prevention Training Opportunities in 1990

*A Resource Guide*

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# Introduction

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Faced with the increasing costs and liabilities associated with end-of-pipe waste management practices, many hazardous waste generators are turning to pollution prevention as a cleaner, safer, and more cost-effective alternative. Pollution prevention is an umbrella term for a wide range of source reduction activities which may include toxics use reduction, chemical substitution, process modification, product redesign, and better management practices. The United States Environmental Protection Agency (EPA) has begun an aggressive effort aimed at integrating the concept of pollution prevention into all of its programs and activities. In addition, the Agency strives to promote pollution prevention efforts by other federal agencies, states, local governments, industry, universities, and the general public. Providing interested parties with information about pollution prevention training resources is an important step in this direction.

This guide contains information about publicly sponsored training opportunities and resources that exist throughout the nation. It is not intended to be a listing of all pollution prevention resources, but rather a directory of training-related services and materials. It covers seminars and workshops, as well as hardcopy and video training materials, and provides contact information for state and federal pollution prevention programs. The information in this guide has been provided by state environmental offices and technical assistance programs, as well as EPA Headquarters and Regional Offices. Additional pollution prevention information can be obtained by accessing EPA's Pollution Prevention Information

Clearinghouse, which offers a wide range of free information services (see "Pollution Prevention Resources").

**Note:** The appearance in this guide of training courses and materials other than those produced or sponsored by U.S. EPA does not constitute an endorsement of their quality by the Agency. Many of the organizations sponsoring such training opportunities have pollution prevention policies which differ significantly from those of the U.S. EPA and thus do not reflect the Agency's position.

Due to the popularity and rapid growth of this field, many pollution prevention efforts are in a state of flux. We worked to ensure that the information in this guide was as current as possible when it was sent to press, but given the dynamic character of the field, some information will have changed since it was collected. We plan to expand and update this publication annually to include additional information called to our attention in the future.

Please submit any updates or corrections about your training opportunities, calendar events, or training materials to:

Pollution Prevention Information Clearinghouse  
Science Applications International Corporation  
8400 Westpark Drive  
McLean, Virginia 22102

(For your convenience, a pre-addressed form letter follows this page.)

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Please use this space for updates or corrections to **EPA's 1990 Pollution Prevention Training Opportunities Guide**

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Title \_\_\_\_\_

Organization \_\_\_\_\_

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Information Clearinghouse**  
SAIC  
8400 Westpark Drive  
McLean, Virginia 22102

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## ***Section I***

# **Pollution Prevention Training Courses**

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*Many publicly-sponsored training courses, seminars, and workshops are held throughout the nation each year, but not all are well publicized. These training programs are the products of the expertise, time, and creative energy of numerous pollution prevention professionals. This section is designed for those interested in participating in such training or drawing on the experience of others who have already developed a program. For further information about a particular program, contact the sponsoring organization.*



# ALABAMA

## Continuing Education Courses

The University of Alabama College of Continuing Education offers three courses on pollution prevention.

<b>Targets:</b> Continuing Education Students	<b>Contact:</b> John E. Moeller Project Director Regulatory Information Service Hazardous Materials Management and Resource Recovery Program 241 Mineral Industries Building University of Alabama • P.O. Drawer G Tuscaloosa, Alabama 35487-9644 (205) 348-4878
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## Pollution Prevention Workshops

The Alabama Business Council and the Alabama Department of Environmental Management offer pollution prevention workshops through the Auburn University Extension Service across the state, aimed at businesses prevalent in those areas.

<b>Targets:</b> Businesses	<b>Contact:</b> Dan Cooper Chief, Special Projects Alabama Department of Environmental Management 1751 Congressman William C. Dickinson Drive Montgomery, Alabama 36130 (205) 271-7939
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## Pollution Prevention Workshops

Hazardous Materials Management and Resource Recovery Program (HAMMARR) held a pollution prevention workshop for small quantity generators in 1989 and is currently planning a seminar for trade associations.

<b>Targets:</b> Small Quantity Generators, Trade Associations	<b>Contact:</b> John E. Moeller Project Director Regulatory Information Service Hazardous Materials Management and Resource Recovery Program 241 Mineral Industries Building University of Alabama • P.O. Drawer G Tuscaloosa, Alabama 35487-9644 (205) 348-4878
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## Speakers Bureau

The Waste Minimization Advisory Committee, consisting of several public and private organizations including the Alabama Chemical Association, the Alabama Conservancy, the Business Council of Alabama, and the Alabama Department of Environmental Management, sponsors a speakers bureau which can provide speakers on the subject of waste reduction for meeting and conferences.

<b>Targets:</b> Business groups, Environmental Groups, Schools, Community Organizations, etc.	<b>Contact:</b> Dan Cooper Chief, Special Projects Alabama Department of Environmental Management 1751 Congressman William C. Dickinson Drive Montgomery, Alabama 36130 (205) 271-7939
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### **Waste Handler Workshops**

HAMMARR provides training workshops for hazardous waste handlers which include sessions on pollution prevention techniques.

**Targets:** Hazardous Waste  
Handlers

**Contact:** John E. Moeller  
Project Director  
Regulatory Information Service  
Hazardous Materials Management and  
Resource Recovery Program  
241 Mineral Industries Building  
University of Alabama • P.O. Drawer G  
Tuscaloosa, Alabama 35487-9644  
(205) 348-4878

## **ALASKA**

### **Waste Reduction Workshops**

The Alaska Department of Environmental Conservation (ADEC) is providing waste reduction workshops and on-site audits in rural communities.

**Targets:** Rural Communities

**Contact:** Dennis Kelso  
Commissioner  
Alaska Department of  
Environmental Conservation  
P.O. Box 0 • Juneau, Alaska 99811-1800  
(907) 465-2600

### **Industry-Specific Workshops**

The ADEC will be holding industry-specific pollution prevention workshops.

**Targets:** Specific Industries

**Contact:** Dennis Kelso  
Commissioner  
Alaska Department of  
Environmental Conservation  
P.O. Box 0 • Juneau, Alaska 99811-1800  
(907) 465-2600

### **Outreach Seminars**

The Alaska Health Project (AHP) will conduct 20 educational outreach seminars for business groups, trade associations, and local government committees.

**Targets:** Business Groups,  
Trade Associations,  
Local Government  
Committees, Federal  
and State Workers

**Contact:** David Kidd  
Alaska Health Project  
431 West 7th Street, Suite 101  
Anchorage, Alaska 99501  
(907) 276-2864

### **Seminars, CHME Training Program**

The Small Business Hazardous Materials Management Project of the AHP conducts seminars in cooperation with the Small Business Development Center. The AHP also offers a 12-hour Community Hazardous Materials Evaluation (CHME) training program.

**Targets:** Small Businesses

**Contact:** David Kidd  
Alaska Health Project  
431 West 7th Street, Suite 101  
Anchorage, Alaska 99501  
(907) 276-2864

### **Graduate Courses**

The AHP sponsors a 3 credit graduate-level course at the University of Alaska-Anchorage School of Engineering entitled "Solid Waste Management/Industrial Waste Reduction."

**Targets:** Graduate Engineering  
Students

**Contact:** David Kidd  
Alaska Health Project  
431 West 7th Street, Suite 101  
Anchorage, Alaska 99501  
(907) 276-2864

## **ARKANSAS**

### **Small Quantity Generator Seminars**

The Arkansas Department of Pollution Control and Ecology's Small Quantity Generator program conducts hazardous waste minimization seminars for small companies.

**Targets:** Small-Quantity  
Generators

**Contact:** Doug Ernst  
Inspector  
Small Quantity Generator Program  
Hazardous Waste Division  
Arkansas Department of  
Pollution Control & Ecology  
P.O. Box 9583 • Little Rock, Arkansas 72219  
(501) 562-7444

## **CALIFORNIA**

### **Compliance Staff Training**

The California Department of Health Services provides training for its permit writers and compliance inspectors that incorporates up-to-date information on pollution prevention alternatives.

**Targets:** Permit Writers and  
Compliance Inspectors

**Contact:** Kim Wilhelm  
Toxic Substances Control Division  
Alternative Technology Section  
California Department of Health Services  
714/744 P Street • P.O. Box 942732  
Sacramento, California 95234-7320  
(916) 324-1807

### **Continuing Education Courses**

The University of California at Davis, Irvine, Los Angeles, Santa Cruz, Riverside, and San Diego offer continuing education courses on toxic materials that devote some time to pollution prevention issues.

<b>Targets:</b>	Continuing Education Students	<b>Contact:</b>	Kim Wilhelm Toxic Substances Control Division Alternative Technology Section California Department of Health Services 714/744 P Street • P.O. Box 942732 Sacramento, California 95234-7320 (916) 324-1807
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## **CONNECTICUT Waste Minimization Course**

Waterbury State Technical College offers a waste minimization course as part of its Industrial Environmental Management (IEM) certificate program.

<b>Targets:</b>	Environmental (Compliance) Professionals, State RCRA Personnel	<b>Contact:</b>	Stephen M. Colwell Associate Dean of Instruction Waterbury State Technical College 750 Chase Parkway Waterbury, Connecticut 06708-3089 (203) 575-8087
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### **Hazardous Waste Management and Minimization Training Conferences**

The Connecticut Department of Environmental Protection and the Connecticut Hazardous Waste Management Service are the co-sponsors of these annual conferences. A certificate towards RCRA training requirements is provided.

<b>Targets:</b>	Beginner/Intermediate Level Generators (1990 Conference)	<b>Contact:</b>	Frederic W. Kaeser Manager of Technical Services Connecticut Hazardous Waste Management Service Suite 360, 900 Asylum Avenue Hartford, Connecticut 06105 (203) 244-2007
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# FLORIDA

## **Pollution Prevention Workshops**

Florida Department of Environmental Regulation (FDER) program staff provide industry-specific workshops, as well as speakers for conferences and meetings.

<b>Targets:</b> Professional Associations, Trade Associations, Businesses and Industries	<b>Contact:</b> Janeth A. Campbell Waste Reduction Assistance Program Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400 (904) 488-0300
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## **Waste Reduction Assessment Training**

FDER staff train local government/inspectors to provide waste reduction information to businesses.

<b>Targets:</b> County Environmental Inspectors, Local Government Units, Community Colleges, Universities	<b>Contact:</b> Janeth A. Campbell Waste Reduction Assistance Program Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400 (904) 488-0300
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## **Waste Reduction Training**

Through the State's RCRA Integrated Training and Technical Assistance (RITTA) grant, the University of Florida has undertaken several training activities which will incorporate pollution prevention concepts to varying degrees. These will include: developing a state-wide training action plan for business, government, and the public; providing RCRA hazardous waste regulation training; developing a university-level waste reduction curriculum; sponsoring a 2-day symposium; and developing a training program for three specific industries.

<b>Targets:</b> Varies	<b>Contact:</b> Dr. Jim Bryant Director Center for Training, Research and Education for Environmental Occupations Division of Continuing Education University of Florida 3900 S.W. 63rd Boulevard Gainesville, Florida 32608 (904) 392-9570
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## GEORGIA

### Training for Environmental Regulators

Georgia Environmental Protection Division staff provides pollution prevention training for its inspectors.

**Targets:** EPD personnel in  
in all media.

**Contact:** Susan Hendricks  
Environmental Specialist  
Environmental Protection Division  
Georgia Department of Natural Resources  
Floyd Tower East, Suite 1154  
2054 Butler Street, S.E.  
Atlanta, Georgia 30334  
(404) 656-7802

### Workshops

The Georgia Tech Research Institute provides continuing education workshops on a wide variety of environmental topics, including waste reduction.

**Targets:** Industries

**Contact:** David Mayer  
Environmental Sciences & Technology Division  
Georgia Tech Research Institute  
O'Keefe Building  
Atlanta, Georgia 30332  
(404) 894-3941

## IDAHO

### Industry Workshops

Idaho and U.S. EPA Region X are sponsoring 8-10 workshops in 1989-1990 to educate industry about pollution prevention options.

**Targets:** Dry Cleaners, Auto  
Body Shops, Electro-  
platers, Print Shops,  
Photofinishers

**Contact:** John E. Moeller or Kathy Ewert  
Idaho Hazardous Materials Bureau  
450 West State Street  
Boise, Idaho 83720  
(208) 334-5926

### Agency Training

The Idaho Hazardous Materials Bureau holds in-house awareness programs on pollution prevention.

**Targets:** DEQ Field Staff

**Contact:** John E. Moeller or Kathy Ewert  
Idaho Hazardous Materials Bureau  
450 West State Street  
Boise, Idaho 83720  
(208) 334-5926

## ILLINOIS

### Trade Group Workshops

The Illinois Hazardous Waste Research and Information Center (HWRIC) conducts introductory workshops for trade groups to encourage pollution prevention and publicize information sources.

**Targets:** Trade Groups

**Contact:** Dr. David Thomas  
Director  
Illinois Hazardous Waste Research and  
Information Center  
1808 Woodfield Drive  
Savoy, Illinois 61874  
(217) 333-8940

### Corporate Pollution Prevention Plan Training

The HWRIC helps corporate environmental managers coordinate internal and company-wide pollution prevention plans.

**Targets:** Corporate  
Environmental  
Managers

**Contact:** Dr. David Thomas  
Director  
Illinois Hazardous Waste Research and  
Information Center  
1808 Woodfield Drive  
Savoy, Illinois 61874  
(217) 333-8940

## INDIANA

### Industry-Specific Workshops

The Indiana Department of Environmental Management's Office of Technical Assistance sponsors workshops that introduce the pollution prevention concept to a particular industry, present case studies of successful alternative technologies for that industry, and provide references of technical experts who can help institute pollution prevention practices.

**Targets:** Specific Industries

**Contact:** Harry Davis  
Office of Technical Assistance  
Indiana Department of  
Environmental Management  
105 South Meridian Street  
Indianapolis, Indiana 46225  
(317) 232-8172

## KANSAS

### Hazardous Waste Regulatory Training Conferences

In cooperation with the Kansas Department of Health and Environment, the University of Kansas offers Hazardous Waste Regulatory Training Conferences. The conferences include waste minimization, regulatory compliance, and technology transfer components.

**Targets:** Small Quantity  
Hazardous Waste  
Generators

**Contact:** Don Bretthauer  
Technical, Environmental, and  
Management Programs  
Division of Continuing Education  
University of Kansas  
Lawrence, Kansas 66045  
(913) 864-3968

### **Graduate Courses**

Kansas State University offers "Hazardous Waste Engineering Seminar", a graduate-level course that focuses on pollution prevention.

<b>Targets:</b> Graduate Students and Corporate Leaders, Regulators, and Educators	<b>Contact:</b> Larry Erickson Department of Chemical Engineering Kansas State University Manhattan, Kansas 66506 (913) 532-5584
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## **KENTUCKY**

### **Industry Workshops**

Kentucky Partners conducts industry-specific workshops on environmental regulations and pollution prevention methods.

<b>Targets:</b> Waste Generators	<b>Contact:</b> Joyce St. Clair Executive Director Kentucky Partners Waste Reduction Center University of Louisville Room 213, Ernst Hall Louisville, Kentucky (502) 588-7260
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### **General Pollution Prevention Workshops**

Kentucky Partners sponsors workshops on general pollution prevention topics.

<b>Targets:</b> Waste Generators	<b>Contact:</b> Joyce St. Clair Executive Director Kentucky Partners Waste Reduction Center University of Louisville Room 213, Ernst Hall Louisville, Kentucky (502) 588-7260
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### **Undergraduate and Graduate Engineering Courses**

The University of Louisville Department of Chemical Engineering incorporates risk reduction into both the undergraduate and graduate engineering curricula. Risk reduction topics include pollution prevention, safety, health, emergency response, loss prevention, and general waste management.

<b>Targets:</b> Undergraduate and Graduate Engineering Students	<b>Contact:</b> Dr. Marvin Fleischman, Professor Department of Chemical Engineering University of Louisville Louisville, Kentucky 40292 (502) 588-6357
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## MASSACHUSETTS

### Outreach Workshops

The Massachusetts Department of Environmental Management includes waste reduction workshops in its public outreach program.

Targets: Anyone

Contact: Kathleen A. Porter  
Source Reduction Program Manager  
Massachusetts Department of  
Environmental Management  
100 Cambridge Street  
Boston, Massachusetts 02202  
(617) 727-3260

## MICHIGAN

### Audit Training

The Office of Waste Reduction Services provides pollution prevention audit training for employees of the state government and county health departments, as well as private companies.

Targets: State Government and  
County Health Dept.  
Employees, and Private  
Companies

Contact: Lois Debacker  
Office of Waste Reduction Services  
Michigan Department of Commerce  
and Natural Resources  
309 North Washington Street, Suite 103  
P.O. Box 30004  
Lansing, Michigan 48909  
(517) 335-1178

## MINNESOTA

### Industry Workshops

The Minnesota Pollution Control Agency conducts workshops under its RITTA grant program.

Targets: Selected Industry  
Groups

Contact: Nancy Misra  
Minnesota Pollution Control Agency  
520 Lafayette Road  
St. Paul, Minnesota 51555  
(612) 643-3497

### Industry Workshops

The Minnesota Technical Assistance Program conducts workshops for industry on pollution prevention opportunities.

Targets: Industry

Contact: Cindy McComas  
Director, Minnesota Technical  
Assistance Program  
Box 197, Mayo Building  
420 Delaware Street, SE  
University of Minnesota  
Minneapolis, Minnesota 55455  
(612) 625-9471

## MISSISSIPPI

### Workshops

The Mississippi Technical Assistance Program conducts workshops for industry on pollution prevention options.

**Targets:** Industry, Businesses,  
Municipalities, and  
the General Public

**Contact:** Dr. Don Hill or Dr. Caroline Hill  
Mississippi Technical Assistance Program  
Chemical Engineering Department  
Mississippi State University  
P.O. Drawer CN  
Mississippi State, Mississippi 39762  
(601) 325-8454

Thomas E. Whitten  
Director, Waste Reduction/  
Waste Minimization  
Mississippi Department of  
Environmental Quality  
P.O. Box 10385  
Jackson, Mississippi 39289-0385  
(601) 961-5171

## MONTANA

### Facility Training

Upon request, the Solid and Hazardous Waste Bureau will instruct facilities on how to conduct their own waste audits.

**Targets:** Industry

**Contact:** Bill Potts  
Hazardous Waste Section  
Solid and Hazardous Waste Bureau  
Montana Department of Health and  
Environmental Sciences  
Cogswell Building, Room B-201  
Helena, Montana 59620  
(406) 444-2821

## NEW JERSEY

### Audit Training

The Hazardous Waste Advisement Program (HWAP) provides pollution prevention audit training for its inspectors.

**Targets:** HWAP Inspectors

**Contact:** Kevin Gashlin  
Division of Hazardous Waste Management  
Hazardous Waste Advisement Program  
New Jersey Department of  
Environmental Protection  
401 East State Street (CN028)  
Trenton, New Jersey 08625  
(609) 292-8341

## NEW YORK

### Medium and Large Quantity Generator Workshops

The New York State Department of Environmental Conservation (NYSDEC) will sponsor 20 workshops over the next 3 years, many of which will cover pollution prevention issues.

**Targets:** Medium and Large  
Quantity Generators

**Contact:** Bill Everly  
Chief, Waste Reduction Evaluation Section  
New York State Department of  
Environmental Conservation  
50 Wolf Road  
Albany, New York 12233-7253  
(518) 485-8400

### Small Quantity Generator Workshops

In 1990 the NYSDEC will conduct 50 industry-specific workshops, many of which will involve pollution prevention training.

**Targets:** Small Quantity  
Generators

**Contact:** Bill Everly  
Chief, Waste Reduction Evaluation Section  
New York State Department of  
Environmental Conservation  
50 Wolf Road  
Albany, New York 12233-7253  
(518) 485-8400

## NORTH CAROLINA

### Workshops, Training Courses

As a part of its EPA Research Center for Waste Minimization and Management, North Carolina State University provides technology transfer activities relating to research in the area of pollution prevention.

**Targets:** Universities,  
Researchers, Industry,  
Government

**Contact:** Dr. Dale Denny  
Dr. Cliff Kaufman  
Center for Waste Minimization  
and Management  
North Carolina State University  
Box 7905  
Raleigh, North Carolina 27695-7905  
(919) 737-2325  
Fax: (919) 737-3465

### Engineering Course

The Pollution Prevention Pays Program (PPPP) offers a course on waste reduction auditing through North Carolina State University's School of Engineering.

**Targets:** University Students

**Contact:** Gary Hunt  
Pollution Prevention Pays Program  
North Carolina Department of Natural  
Resources and Community Development  
P.O. Box 27687  
Raleigh, North Carolina 27611-7687  
(919) 733-7015

### **Workshops**

The PPPP conducts a series of waste reduction workshops and conferences through the University system each year. The PPPP also designs client-specific waste reduction workshops.

**Targets:** Industry, Specific  
Clients, and the  
General Public

**Contact:** Gary Hunt  
Pollution Prevention Pays Program  
North Carolina Department of Natural  
Resources and Community Development  
P.O. Box 27687  
Raleigh, North Carolina 27611-7687  
(919) 733-7015

## **OHIO**

### **Workshops**

The Ohio Technology Transfer Organization provides industry and waste stream-specific waste minimization/pollution prevention training sessions on a regularly scheduled basis.

**Targets:** Small and Midsize  
Businesses in Ohio

**Contact:** Dawn Palmieri  
Ohio Technology Transfer Organization  
77 South High Street, 26th Street  
Columbus, Ohio 43255-0330  
(614) 644-9336

## **OREGON**

### **Workshops**

The Hazardous Waste Reduction Program (HWRP) periodically sponsors workshops to educate hazardous waste generators about a wide range of environmental and safety issues. Included in these workshops are sessions devoted to waste reduction topics such as, "How To Develop Waste Reduction Plans," "How To Conduct Waste Assessments," and the "Implications of Oregon's Toxic Use Act (HB 3515)". A workshop entitled "Responsible Hazardous Materials Management" is scheduled for October 1990.

**Targets:** Hazardous Waste  
Generators and  
Transporters,  
Businesses

**Contact:** Marianne Fitzgerald  
Hazardous Waste Reduction Program  
Oregon Department of Environmental Quality  
811 S.W. Sixth  
Portland, Oregon 97204-1390  
(503) 229-5913

### **Engineering Courses**

The HWRP is collaborating with Oregon State University in revising the University's engineering curriculum to incorporate waste reduction technologies.

<b>Targets:</b> Engineering Students	<b>Contact:</b> Dr. Ken Williamson Environmental Engineering Office Civil Engineering Department Oregon State University Apperson 206 Corvallis, Oregon 97331-2302 (503) 754-2751
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## **PENNSYLVANIA**

### **Audit Training**

U.S. EPA Region III provides its Enforcement and Permitting personnel with multi-media waste audit training.

<b>Targets:</b> U.S. EPA Region III Enforcement and Permitting Staff	<b>Contact:</b> James Hemby Regional Coordinator Environmental Assessment Branch Environmental Services Division U.S. EPA Region III 841 Chestnut Building (3E543) Philadelphia, Pennsylvania 19107 (215) 597-8327
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## **TENNESSEE**

### **Waste Reduction Assessment Training**

The University of Tennessee Center for Industrial Services (CIS) and the Tennessee Valley Authority (TVA) have developed an extensive waste reduction assessment training program which includes an in-depth waste audit course, a comprehensive training manual (see "Pollution Prevention Instructor Manuals"), and interactive video training modules. This training program was originally developed to instruct retired chemical and industrial engineers, who would then form a highly-skilled yet cost-effective waste assessment team. Many state and federal agencies have participated in the CIS/TVA program or have used their training materials. Waste and industry-specific workshops are provided throughout the year by CIS.

<b>Targets:</b> Industry, U.S. EPA Regulatory Personnel	<b>Contact:</b> Cam Metcalf Center for Industrial Services University of Tennessee 226 Capitol Boulevard Building Suite 401 Nashville, Tennessee 37219 (615) 242-2456
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## TEXAS

### Undergraduate Courses

Texas Tech University has incorporated pollution prevention concepts into existing engineering courses.

**Targets:** Undergraduate  
Engineering  
Students

**Contact:** John R. Bradford  
Director  
Center for Hazardous and Toxic Waste Studies  
Texas Tech University  
P.O. Box 4679  
Lubbock, Texas 79409-3121  
(806) 742-1413

## WASHINGTON

### Industry Workshops

Washington and U.S. EPA Region X are sponsoring 8-10 workshops in 1989-1990 to educate industry about pollution prevention options.

**Targets:** Electroplaters,  
Metal Finishers,  
Print Shops,  
Dry Cleaners,  
Auto Service and  
Repair Shops

**Contact:** Jay Shepard  
Unit Supervisor  
Office of Waste Reduction  
Washington Department of Ecology  
Mail Stop PV-11  
Olympia, Washington 98504-8711  
(206) 459-6302

## WISCONSIN

### Engineer Professional Development

The Engineering Professional Development Program at the University of Wisconsin – Madison's College of Engineering offers intensive, short courses on waste minimization, environmental audits and compliances, and many other topics.

**Targets:** Industry; Businesses;  
Consultants; Local,  
State, and Federal  
Government Staff

**Contact:** Pat Eagan  
Engineering Professional Development  
College of Engineering  
University of Wisconsin – Madison  
432 North Lake Street  
Madison, Wisconsin 53706  
(608) 263-7429

### Solid Waste Recycling Workshops

The University of Wisconsin – Extension, in cooperation with the Wisconsin Department of Natural Resources, offers workshops in solid waste reduction and recycling, composting, and a variety of other topics.

**Targets:** Local Governments,  
Businesses, Agency  
Staff, General Public

**Contact:** Pat Walsh  
Community Dynamics Institute  
University of Wisconsin – Extension  
529 Lowell Hall  
610 Langdon Street  
Madison, Wisconsin 53703  
(608) 262-8179

# WYOMING

## Hazardous Waste Disposal Training Course

The Wyoming Department of Environmental Quality conducts "Haz Help," a course aimed at waste management and hazardous waste disposal for vehicle maintenance operations. It incorporates pollution prevention concepts into coursework.

**Targets:** Vehicle Maintenance  
Facilities

**Contact:** David Finley  
Manager  
Solid Waste Management Program  
Wyoming Department of  
Environmental Quality  
122 West 25th Street  
Herschler Building  
Cheyenne, Wyoming 82002  
(307) 777-7752

## **Section II**

# **Calendar of Pollution Prevention Events**

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*The information in this calendar was taken from the Electronic Information Exchange System (EIES), a component of EPA's Pollution Prevention Information Clearinghouse (see "Pollution Prevention Resources"). It is current as of March 1990. For the most up-to-date listing of events with detailed descriptions, check the EIES.*



# Calendar of Pollution Prevention Events for 1990

Title	Sponsor	Date/Location	Contact
Industrial Wastewater Pretreatment Seminar	University of Toledo, College of Engineering	March 29 Newark, NJ	(419) 537-2033
Hazardous and Solid Waste Minimization: Technical and Management Strategies to Reduce Your Wastes	Government Institutes, Inc.	March 29-30 Washington, DC	(301) 251-9250
9th Annual Resource Recovery Conference and NRRRA Annual Meeting	National Resource Recovery Association	March 29-30 Washington, DC	(202) 293-7330
Industrial Wastewater Pretreatment Seminar	University of Toledo, College of Engineering	March 30 Boston, MA	(419) 537-2033
NHRRRA Workshop: Designing a Public Education Program on Recycling	New Hampshire Resource Recovery Association	April 3 Exeter, NH	(603) 224-6996
16th Annual Research Symposium: Remedial Action, Treatment, and Disposal of Hazardous Waste	U.S. EPA Risk Reduction Engineering Laboratory	April 3-5 Cincinnati, OH	(215) 643-5466
GRCD's Southwest Regional Solid Waste Symposium	Governmental Refuse Collection and Disposal Association	April 8-10 Albuquerque, NM	(800) 456-4723
NHRRRA Workshop: Designing a Public Education Program on Recycling	New Hampshire Resource Recovery Association	April 10 Peterborough, NH	(603) 224-6996
New England Environmental Expo	Industrial Expos	April 10-12 Boston, MA	(800) 543-5259
OWMC Workshop: Waste Reduction Opportunities	Ontario Waste Management Association	April 11 Ontario, Canada	(800) 268-1178
NHRRRA Workshop: Designing a Public Education Program on Recycling	New Hampshire Resource Recovery Association	April 11 Conway and Londonderry, NH	(608) 224-6996
Third Annual Hazardous Waste Seminar	Kentucky Partners	April 18 Louisville, KY	(502) 588-6061
Waste Minimization Seminar	DuPont Company	April 18-19 Los Angeles, CA	(800) 248-7020
Scrap Tire Trade Show and Exhibition	American Retreaders' Association	April 20-22 Louisville, KY	(502) 367-9133
Annual Recycling Conference and Trade Shop	Washington State Recycling Association	April 21-24 Spokane, WA	(206) 352-8737
GRCD's 20th Annual Western Regional Solid Waste Symposium	Governmental Refuse Collection and Disposal Association	April 23-26 Ontario, CA	(301) 585-2898
Energy and Environment 90: International Trade Fair on Energy, Air Pollution Control, Waste Management, and Recycling	ELMIA	April 23-27 Jonkoping, Sweden	+46 36-11 90 60
8th Annual Virginia Waste Management Conference	Virginia Department of Waste Management	April 24-25 Richmond, VA	(800) 456-4723

Title	Sponsor	Date/Location	Contact
Waste Expo	National Solid Waste Management Association	May 2-4 Atlanta, GA	(202) 659-4613
Pollution Prevention: Waste Reduction Assessment and Technology Transfer Teleconference	Purdue University's Environmental Management and Education Program	May 5 Lafayette, IN	(800) 669-6604
Rocky Mountain Regional Recycling Convention	U.S. EPA Region VIII	May 6-8 Keystone, CO	(203) 566-3489
Haz Waste Expo	National Association of Hazardous Waste Generators	May 7-10 Atlanta, GA	(215) 683-5098
Haztech International 90	Institute for International Research	May 8-10 Houston, TX	(800) 468-7644
Waste Minimization Seminar	DuPont Company	May 9-10 Washington, DC	(800) 248-7020
20th Annual Biocycle National Conference	BioCycle	May 14-16 Minneapolis, MN	(215) 967-4135
Hazardous Waste Management Conference	Connecticut Department of Environmental Protection and Connecticut Hazardous Waste Management Service	May 15 Meriden, CT	(203) 566-3489 (203) 244-2007
1990 Conference on Hazardous Substance Research	Kansas State University's Center for Hazardous Substance Research	May 21-22 Manhattan, KS	(913) 532-5584
5th Annual Aerospace Hazardous Waste Minimization Conference	Hughes Aircraft Company	May 22-24 Costa Mesa, CA	(213) 568-6365
KSU Workshop: Hazardous Waste Minimization in the Metal Finishing Industry	Kansas State University's Center for Hazardous Substance Research	May 23 Manhattan, KS	(913) 532-6026
OWMC Workshop: Waste Reduction Opportunities	Ontario Waste Management Corporation	May 23 Ontario, Canada	(800) 268-1178
Recycling Plus V	Plastics Institute of America	May 23-24 Washington, DC	(201) 420-5553
Swedish Solid Waste Association Conference	Swedish Solid Waste Association	May 23-25 Stockholm, Sweden	(800) 546-4723
Fourteenth National Waste Processing Conference and Exhibit	American Society of Mechanical Engineers	June 3-6 Long Beach, CA	(202) 705-7722
North American Recycling Conference 1990	Resource Integration Systems	June 4-5 Montreal, Canada	(416) 369-9831
HazMat90 International	HazMat World	June 5-7 Atlantic City, NJ	(312) 469-3373
Third Annual Symposium on Forest Industry Waste Waters	International Association of Water Pollution Research and Control	June 5-8 Tampere, Finland	+358 31 162441
OWMC Workshop: Waste Reduction Opportunities	Ontario Waste Management Corporation	June 6 Ontario, Canada	(416) 923-2918
International Conference on Pollution Prevention: Clean Technologies and Clean Products	U.S. EPA	June 10-13 Washington, DC	(703) 734-3198

Title	Sponsor	Date/Location	Contact
9th Annual New England Resource Recovery Conference and Expo	New Hampshire Resource Recovery Association	June 13-15 Burlington, VT	(603) 224-6996
1st U.S. EPA Conference on Municipal Solid Waste Management	U.S. EPA	June 13-16 Washington, DC	(800) 456-4723
Haz Waste '90	National Association of Hazardous Waste Generators	June 18-21 San Diego, CA	(415) 726-3823
Third Annual Hazardous Waste Reduction Conference	New York State Department of Environmental Conservation	June 19-20 Albany, NY	(518) 485-8400
1st World Recycling Conference and Exposition	Recycling Today	June 27-29 Baltimore, MD	(203) 852-0500
1990 National Solid Waste Forum on Integrated Municipal Waste Management	Association of State and Territorial Solid Waste Management Officials	July 16-18 Milwaukee, WI	(202) 624-5828
Prevention, Management, and Compliance for Hazardous Waste	American Institute of Chemical Engineers	August 20-22 San Diego, CA	(212) 705-7526
28th International Solid Waste Expo	Governmental Refuse Collection and Disposal Association	August 20-24 Vancouver, Canada	(800) 456-4723
Haztech International 90	Institute for International Research	September 12-14 Santa Clara, CA	(800) 468-7644
Waste Minimization Seminar	DuPont Company	September 18-19 Williamsburg, VA	(800) 248-7020
Haztech International 90	Institute for International Research	October 2-4 Pittsburgh, PA	(800) 468-7644
3rd Annual Eastern Regional Solid Waste Symposium	Governmental Refuse Collection and Disposal Association	October 2-4 Virginia Beach, VA	(800) 486-4723
New York-New Jersey Environmental Expo	Industrial Expos	October 16-18 Secaucus, NJ	(800) 543-5259
2nd Annual Southeastern Regional Solid Waste Symposium	Governmental Refuse Collection and Disposal Association	November 6-8 Orlando, FL	(800) 456-4723
Prevention, Management, and Compliance for Hazardous Waste	American Institute of Chemical Engineers	November 14-16 Chicago, IL	(212) 705-7526
2nd Annual Waste Equipment and Recycling Conference and Exposition	Tower Conference Management	November 28-30 Rosemont, IL	(312) 469-3373

## **Section III**

# **Pollution Prevention Instruction Manuals**

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*These manuals were designed for use by class instructors, workshop coordinators, or anyone interested in learning more about pollution prevention techniques. Information on how to obtain these and other materials is available through EPA's Pollution Prevention Information Clearinghouse (see "Pollution Prevention Resources"). Some of the manuals are available free of charge through the Clearinghouse, if so marked. For those not available from the PPIC, contact the organization that produced the manual for information on how to obtain it. Industry-specific assessment materials are listed in the following section.*

## **HAZARDOUS WASTE MINIMIZATION MANUAL FOR THE SMALL QUANTITY GENERATOR**

This manual provides information and guidance to small quantity generators on pollution prevention practices and suggested compliance requirements under the Resource Conservation and Recovery Act (RCRA) and other related state and federal acts. The manual investigates the following subjects: the advantages of pollution prevention; the regulatory environment for waste reduction; pollution prevention approaches; how to conduct a waste audit; general, industry-specific, and waste-specific pollution prevention practices; and financing a waste reduction program. The manual includes a chapter on sources of pollution prevention information, as well as appendices covering regulatory issues relevant to the small quantity generator. An expanded edition of this manual is available with inserts pertaining to Pennsylvania generators.

*Center for Hazardous Materials Research, June 1988*  
*University of Pittsburgh Applied Research Center*  
*320 William Pitt Way*  
*Pittsburgh, Pennsylvania 15238*  
*(412) 826-5320 • 1 (800) 334-CHMR*  
*Cost: \$40*

## **INDUSTRIAL WASTE AUDIT AND REDUCTION MANUAL**

The first step to effective waste reduction is a systematic audit of plant processes. *The Industrial Waste Audit and Reduction Manual* explains each step of the audit process, including: determining the origin, characteristics, and volume of wastes being produced; evaluating waste disposal methods and costs; weighing costs and benefits of different waste reduction measures, and; deciding on the best, most cost-effective methods for your operation. This manual is targeted at small- and medium-sized companies, and can be used by both technical and non-technical staff. It includes example waste audit case studies from printed circuit board manufacturing, steel pickling, and detergent manufacturing companies, and devotes one section to sources of pollution prevention information and assistance.

*Ontario Waste Management Corporation, 1990*  
*Attention: John Richmond • 2 Bloor Street West, 11th Floor*  
*Toronto, Ontario, Canada M4W3E2*  
*(416) 923-2918*  
*Cost: \$40*

## **MANAGEMENT AND MINIMIZATION OF HAZARDOUS WASTE UNDER RCRA**

This manual was written as a teaching aid for workshops designed to meet the training requirements of the Resource Conservation and Recovery Act (RCRA) for North Carolina industries. Although its focus lies with educating generators about the Act's regulatory requirements, it promotes pollution prevention as the best means to avoid the legal and economic burdens of waste generation. The manual discusses how to plan a waste reduction program and conduct an audit, operating practices conducive to preventing pollution, and how to motivate people to alter their behavior and adopt a waste reduction mentality.

*North Carolina State University, September 1989*  
*Industrial Extension Service, College of Engineering,*  
*P.O. Box 7909, Raleigh, North Carolina 27695-7909*  
*(919) 737-2303*  
*Cost: Contact the University for cost and availability*  
*information*

## **NEW YORK STATE WASTE REDUCTION GUIDANCE MANUAL**

This manual was prepared specifically for businesses located in New York and provides detailed descriptions of waste reduction techniques for major waste-generating processes used by State industries. Both in-state and out-of-state businesses can use this manual to learn more about waste reduction benefits, waste reduction techniques that may be applicable to their processes and waste streams, and how to conduct a waste reduction audit. The *NYS Waste Reduction Guidance Manual* introduces the concepts necessary to undertake waste reduction, including: starting and sustaining a waste reduction effort, investigating opportunities, identifying options, and performing a feasibility analysis. Appendices provide additional sources of information, worksheets, a glossary, and applicable rules and regulations.

*New York State Department of Environmental Conservation,*  
*March 1989*  
*Division of Hazardous Substances Regulation, Bureau of*  
*Hazardous Waste Program Development*  
*50 Wolf Road • Albany, New York 12233-7253*  
*(518) 485-8400*  
*Cost: Contact the DEC for cost and availability information*

## **POLLUTION PREVENTION BENEFITS MANUAL**

This manual promotes a complete and objective analysis of the economic benefits of multi-media pollution prevention projects. Corporate experience has shown that such projects frequently are not undertaken because the benefits of the project — in terms of reduced raw materials, regulatory compliance, and environmental liability costs — are poorly understood. *The Pollution Prevention Benefits Manual* enables you to calculate the true cost of the current materials and waste management practice and then evaluate the financial payback of the pollution prevention alternative. The manual includes in-depth discussions of usual costs, hidden regulatory costs, liability costs, less tangible costs, and financial protocol. Appendices contain worksheets, sections on hidden costs of selected regulations, future liability costs, an example using a hypothetical firm, and treatment standards under the land disposal restrictions.

U.S. EPA Office of Policy, Planning, and Evaluation and  
Office of Solid Waste, To be released February 1990  
Available through the PPIC after release date  
Cost: Free

## **POLLUTION PREVENTION PAYS INSTRUCTION MANUAL**

This manual provides new people entering industry with an understanding of the pollution prevention concept and basic waste reduction problem-solving skills. Although it was specifically designed for use in college courses related to industrial technology, it is suitable for in-service industrial training or for use in a high school program. *The Pollution Prevention Pays Manual* includes such concepts as recognition of the trends affecting industrial and governmental policy, liability and marketing issues, and trends in industrial technology. Each chapter includes suggested classroom activities, background teaching aids, and references.

Western Carolina University, North Carolina Department of  
Natural Resources, North Carolina Pollution Prevention Pays  
Program, and the Gildea Foundation, June 1988  
Center for Improving Mountain Living  
Western Carolina University,  
Cullowhee, North Carolina 28723  
(704) 227-7492  
Cost: Contact the Center for cost and availability information

## **PROFITING FROM WASTE REDUCTION IN YOUR SMALL BUSINESS**

*Profiting from Waste Reduction in Your Small Business* helps small business managers and their employees work together to identify and implement methods to reduce industrial wastes. Moreover, it is designed to help managers and employees see their industrial waste as a financial resource rather than unavoidable by-products of their business process. This manual shows how to: organize a business to promote waste reduction, review business plans for waste reduction potential, conduct a waste reduction audit, evaluate a waste reduction program, and learn specific strategies for nine common business processes. It includes a section covering waste reduction resources for small businesses.

Alaska Health Project, 1988  
431 West 7th Avenue, Suite 101  
Anchorage, Alaska 99501  
(907) 276-2864  
Available through the PPIC  
Cost: Free

## **TOXICS USE REDUCTION GUIDE**

This guide was developed to educate Colorado industry about the benefits of reducing the generation of toxic chemicals. It advocates a waste management strategy based on pollution prevention — not end-of-pipe treatment — which can lead to economic savings, reduced regulatory requirements, improved worker health, and protection of the environment. These claims are reinforced in a case study of Polaroid Corporation's pollution prevention successes. The *Toxics Use Reduction Guide* includes a section that explains how any company can establish its own waste reduction program, from the planning stage to implementation. A list of pollution prevention contacts is also included.

Colorado Public Interest Research Group (CoPIRG), 1989  
1724 Gilpin, Denver, Colorado 80218  
(303) 355-1861  
Cost: \$2

## **WASTE MINIMIZATION: MANUFACTURERS' STRATEGIES FOR SUCCESS**

The purpose of this guide is to inform both small and large manufacturers about ways to curtail waste generation and prevent the release of pollutants into the environment. It emphasizes the need for widespread voluntary initiatives to reduce hazardous waste generation. It answers such questions as "What is waste minimization?" and "Why should I establish and implement a waste reduction program?" before describing how manufacturers can establish their own pollution prevention programs. The guide briefly describes success stories from corporate and industry-specific programs and includes appendices on assistance resources, recommended reading, and terminology.

*National Association of Manufacturers, 1989*  
1331 Pennsylvania Avenue, N.W.  
Washington, D.C. 20004-1703  
(202) 637-3000  
Cost: \$19.95 (member); \$29.95 (non-member)

## **WASTE MINIMIZATION OPPORTUNITY ASSESSMENT MANUAL (EPA/625/7-88/003)**

This manual describes U.S. EPA's recommended procedure for identifying hazardous waste pollution prevention opportunities. It was designed to promote EPA's preferred waste management strategy, which ranks source reduction and recycling first and second, respectively. The manual describes in detail how to conduct a waste assessment, from the planning/organization phase, through the assessment and feasibility analysis, to final implementation of the pollution prevention options. The manual contains numerous appendices, including: worksheets, an example waste assessment, causes and sources of waste, pollution prevention techniques, lists of government-sponsored assistance programs, and discussions of economic evaluation methods. The *Waste Minimization Opportunity Assessment Manual* is targeted at both those responsible for reducing waste streams and those interested in general information about pollution prevention. This manual is suitable for use as a primary text in a training course or as part of a technical assistance outreach effort.

*U.S. EPA, Office of Research and Development, July 1988*  
*Hazardous Waste Engineering Research Laboratory*  
Cincinnati, Ohio 45268  
Available through the PPIC  
Cost: Free

## **WASTE MINIMIZATION RESOURCE MANUAL**

This manual was designed for use by industry personnel of all levels who are involved with planning or implementing a pollution prevention program. The first section describes elements which constitute such a program: an overview of the pollution prevention concept; the statutory and regulatory framework; incentives, how to start, track, and evaluate a waste reduction program; and how to conduct a waste assessment. The remainder of the *Waste Minimization Resource Manual* is devoted to brief discussions of the various pollution prevention technologies.

*Chemical Manufacturing Association, June 1989*  
2501 M Street, N.W., Washington, D.C. 20037  
(202) 887-1100  
Cost: \$40 (member); \$60 (non-member)

## **WASTE REDUCTION ASSESSMENT AND TECHNOLOGY TRANSFER TRAINING MANUAL**

This manual was originally developed by the TVA and the University of Tennessee Center for Industrial Services to train retired engineers, state, and affiliated university personnel to design or implement a waste reduction technical assistance program, but it is also suitable for businesses and waste assessment teams. The *WRATT Training Manual* concentrates on procedures that motivate people to search, screen, and put into practice measures involving administrative, material, or technology changes that result in decreased waste generation. It includes information on: waste reduction awareness and incentives, federal safety standards, state and federal regulations, how to establish a waste reduction program and conduct a waste assessment, and waste reduction approaches for specific industries and waste types. The manual includes an industry preassessment checklist packet and appendices including sources of pollution prevention information, bibliographies, directory of pollution prevention-related services, and a list of waste exchanges.

*Tennessee Valley Authority, October 1989*  
Russell Allen  
Bicentennial Volunteers, Inc.  
600 Summit Hill Drive  
Knoxville, Tennessee 37902  
(615) 632-8089  
Cost: \$40 (bulk quantity discounts available)

## **WASTE REDUCTION IN YOUR BUSINESS**

This manual was prepared to assist Washington State businesses in reducing the amount of hazardous waste that they produce. It is intended to be a tool that business managers and their employees can use to: understand the benefit of waste reduction, learn how to start a waste reduction program, conduct a waste reduction audit, evaluate waste reduction options, and know who to call for assistance. The manual draws on both the *EPA Waste Minimization Opportunity Assessment Manual* and *Profiting from Waste Reduction in Your Small Business*.

*Washington State Department of Ecology, November 1989  
Office of Waste Reduction, Recycling, and Litter Control  
4407 Woodview Drive, S.E.  
Lacey, Washington 98503  
(206) 438-7541  
Cost: Contact the DE for cost and availability information.*





## **Section IV**

# **Industry-Specific Pollution Prevention Opportunity Assessment Materials and Factsheets**

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*Pollution prevention opportunity assessment materials have been developed for the industries listed in this section. Information on how to obtain these and other materials is available through EPA's Pollution Prevention Information Clearinghouse (see "Pollution Prevention Resources"). This list is current as of January 1990.*

## Industry-Specific Pollution Prevention Opportunity Assessment Materials

*The PPIC contains assessment materials for the industries/processes listed in this section. Contact the Clearinghouse for more information about the nature and availability of these materials.*

INDUSTRY/PROCESS	SIC CODE
Automotive Repair	7538
Automotive Paint	7535
Printing	2700
Paint Manufacturing/Formulating	2851
Wood Treating/Preserving	2491
Precious Metal Platers	3911, 3914
Dry Cleaning	7216
Photofinishing/Photoprocessing	7395
Research Laboratories	7391
General Medical and Surgical Hospitals	8062
Pharmaceutical Preparations	2834
Fur Dressing/Tanning	3111
Aviation Facility	4582
Electroplating	3471
Printed Circuit Board Manufacturing	3672
Research and Education Institutions	8732, 8733
Metal Finishing	3471
Pesticide Formulating	2879
Fiberglass	2221
Heavy Equipment Maintenance	7699
Manufacturing/Distribution Co.	3900
Vocational Shops	8249

# Fact Sheets

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*These industry or process-specific factsheets contain overviews, tips, or guidelines for pollution prevention techniques. They are available from the organizations that produced them (see list of contacts in "Pollution Prevention Resources") or from the Pollution Prevention Information Clearinghouse.*

## **Alaska Health Project**

### **Waste Reduction Tips**

- All Businesses
- Dry Cleaners
- Photofinishers
- Print Shops
- Vehicle Repair Shops

## **California Department of Health Services**

### **Waste Reduction Factsheets**

- Automotive Repair Shops
- Paint Formulators
- Pesticide Formulating Industry
- Waste Reduction Can Work For You

## **City of Los Angeles**

- Plating with Trivalent Chrome Instead of Cr+6
- What Should I Do with My Electroplating Sludge?
- Aerosol Containers

**City of Santa  
Monica**

**Hazardous Waste Reduction Factsheets**

- Automotive Painting
- Commercial Dry Cleaners
- General Commercial Printers
- General Guidelines
- Machine Toolers
- Metal Finishing
- Paint Formulating Industry
- Photographic Processors
- Printed Circuit Board Industry
- Vehicle and Equipment Repair and Maintenance Shops

**Florida Dept. of  
Environmental  
Resources**

- Pollution Prevention Through Waste Reduction

**Minnesota  
Technical  
Assistance  
Program**

**Waste Reduction Checklists**

- Operating Procedures
- Cleaning
- Machining
- Plating/Metal Finishing
- Coating/Painting
- Formulating

**Waste Reduction Information**

- Reducing Emissions from Vapor Degreasers
- Using a Gun Washer to Minimize Solvent Waste
- Prolonging Machine Coolant Life
- Managing Empty Containers
- Evaluating Cooling Towers to Reduce Water Use
- Guidance for Oil Spill Cleanup in Plant
- Management of Used Paint and Paint-Related Materials
- Radiator Repair/Engine Rebuilding Industries
- Choosing a Still for Solvent Recovery

**Equipment Fact Sheets**

- Silver Recovery
- Small Stills for Solvent Recovery

**General Information**

- Choosing a Metals Recycler
- Using a Waste Exchange Service

**North Carolina's  
Pollution Prevention  
Pays Program**

The PPPP has developed a wide range of industry-specific pollution prevention materials.

**Oregon  
Department of  
Environmental  
Quality**

**Pollution Prevention Profiles**

- A Generator's Checklist
- The Alexander Motors Success Story
- The Eastside Plating Success Story
- The Tektronics Payoff
- The Wacker Payoff

**U.S. EPA Region III**

**Pollution Prevention Factsheets (to be released in Mid Spring 1990)**

- Pollution Prevention (General)
- Chemical Production
- Coal Mining
- Demolition
- Electrical Power Generation
- Metal Finishing
- Oil Refining
- Opportunities in Waste Water Treatment
- Paper Manufacturing
- Printing
- Steel Manufacturing



## **Section V**

# **Pollution Prevention Videos**

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*The videos on this list are suitable for use as supplements to a training course or workshop or as sources of background information. Some of the videos are available by loan through EPA's Pollution Prevention Information Clearinghouse, if so marked (see "Pollution Prevention Resources"). For those not available through the PPIC, contact the organization that produced the video for availability information.*



## **BEYOND BUSINESS AS USUAL: MEETING THE CHALLENGE OF HAZARDOUS WASTE**

(28:30 min.)

U.S. EPA Region VIII  
999 18th Street, Suite 500  
Denver, Colorado 80202-2405  
(303) 293-1603  
*Available through the PPIC*  
*Cost: Free Loan*

This video promotes source reduction and recycling as the best hazardous waste management options, and offers treatment as an alternative only after all pollution prevention opportunities are realized. *Beyond Business as Usual* supports its case with success stories from industry, federal agencies, and state and local government programs. The video stresses that successful pollution prevention requires both industrial initiatives and governmental direction. It includes a short discussion of the federal legislative foundation for this strategy and presents the opinions of a cross-section of individuals involved in this field.

## **THE COMPETITIVE EDGE**

(17:50 min.)

Ontario Waste Management Corporation, 1989  
2 Bloor Street West, 11th Floor  
Toronto, Ontario, Canada M4W3E2  
(416) 923-2918  
*Cost: \$24.00*

*The Competitive Edge* is designed to acquaint employees with the industrial auditing process. The video explains the six steps of an audit in clear and simple terms. The video can be shown for general information or as a training tool to be used with OWMC's *Industrial Waste Audit and Reduction Manual* (see "Pollution Prevention Instructor Manuals").

## **HAZARDOUS WASTE REDUCTION OPTIONS FOR OREGON BUSINESS**

Oregon Department of Environmental Quality  
Hazardous Waste Reduction Program  
811 S.W. Sixth, Portland, Oregon 97204-1390  
(503) 229-5913  
*Available through the PPIC*  
*Cost: Free Loan*

This video presents the options available to Oregon businesses to reduce or eliminate their hazardous waste streams. Case studies of two large quantity generators and two small quantity generators illustrate various pollution prevention strategies.

## **LESS IS MORE: POLLUTION PREVENTION IS GOOD BUSINESS**

(23:13 min.)

U.S. EPA, Office of Solid Waste  
401 M Street, S.W.  
Washington, DC 24060  
*Available through the PPIC*  
*Cost: Free Loan*

*Less Is More* highlights industry success stories that prove that pollution prevention is the best alternative to costly end-of-the-pipe waste management strategies, such as treatment and disposal. The success stories draw from the experiences of both large and small industries, which include electroplating, ink manufacturing, metal parts manufacturing, pesticide formulating, and polyethylene producing concerns. The video describes three needs essential to successful pollution programs: top-down corporate commitment to lead the way, employee involvement, and procedures to track costs and potential liabilities. *Less Is More* demonstrates that with regard to pollution prevention, company innovation — not regulation — is the key to cost savings, better worker health, and a cleaner environment. Preventing industrial waste generation is a "Win-Win" situation in which government and industry can work as partners for a safer, cleaner world.

## **MISSION IMPOSSIBLE: INTRODUCTION TO THE POLLUTION PREVENTION INFORMATION CLEARINGHOUSE**

(48 min.)

*Pollution Prevention Information Clearinghouse (PPIC)*

8400 Westpark Drive

McLean, Virginia 22102

(703) 821-4800

*Available through the PPIC*

*Cost: Free Loan*

*Mission Impossible* describes in detail the purpose, structure, and activities of the PPIC, a U.S. EPA clearinghouse which is dedicated to promoting source reduction and recycling through information exchange and technology transfer. The video includes an overview of the Clearinghouse components and a training session on how to access and use the Electronic Information Exchange System (for more information about the PPIC, see "Pollution Prevention Resources").

## **MONEY DOWN THE DRAIN**

(18:10 min.)

*Ontario Waste Management Corporation, 1989*

2 Bloor Street West, 11th Floor

Toronto, Ontario, Canada M4W3E2

(416) 923-2918

*Cost: \$24.00*

Businesses looking for alternatives to costly off-site treatment and disposal, can benefit from the experience of other businesses. In *Money Down The Drain*, five Ontario manufacturers tell how they applied reduction, reuse, recycling, and recovery to their liquid industrial and hazardous wastes, leading to impressive cost savings. This video is suitable for in-plant use and for more general audiences with an interest in industrial waste reduction.

## **POLLUTION PREVENTION: THE BOTTOM LINE**

(24 min.)

*Coastal Video Communications Corporation*

*To be released February 1990*

3083 Brickhouse Court, Virginia Beach, Virginia 23452

(800) 767-7703

*Cost: \$495 (Quantity discounts available)*

Produced under EPA guidelines, this video leads managers, supervisors, and workers through the

complexity of terms associated with pollution prevention. *The Bottom Line* provides a background to environmental costs and regulations, with many examples drawn from corporate experiences. This video will inspire all employees to identify and implement the pollution prevention opportunities available in their own workplace.

## **3M'S POLLUTION PREVENTION PAYS PROGRAM (9:00 min.)**

### **CHALLENGE TO INNOVATION (8:30)**

*3M Corporation, 1984, 1987*

*Environmental Engineering and Pollution Control*

Building 21-2W-07 • Box 33331

St. Paul Minnesota 55133

(612) 778-4791

*Available through the PPIC*

*Cost: Free Loan*

The first video highlights the achievements and strategy of 3M's highly successful corporate-wide pollution prevention program, which is based on source reduction and the reclamation and reuse of process waste. *Challenge to Innovation* is intended to encourage formulating chemists and other key players in 3M laboratories to eliminate or reduce waste in products.

## **SMART MOVES**

(21:26 min.)

*Chevron Corporation*

*Attention: Cathy Meyers*

*Corporate Communications Division, Public Affairs*

225 Bush Street

San Francisco, California 94104

(415) 894-3498

*Cost: Free Loan*

This video describes Chevron's successful waste reduction program, which is entitled "Save Money and Reduce Toxics."

## **WASTE NOT**

(35 min.)

*Umbrella Films, 1989*  
60 Blake Road, Brookline, Massachusetts 02146  
(617) 277-6639  
Cost: \$395.00

In a series of company profiles, *Waste Not* examines activities and programs within industry which have been designed to reduce or eliminate the generation of hazardous waste at the source. Company spokespersons describe how reducing waste has helped them lower costs and liabilities. Profiles include small, medium, and large manufacturers of electroplated, rubber, and photographic products. Although basically non-technical, the tape includes an overview of waste reduction methods and emphasizes the need to relate waste reduction to manufacturing in terms of processes, costs, and design.

## **WASTE NOT...WANT NOT**

(15 min.)

*U.S. EPA Region IV*  
345 Courtland Street, N.E.  
Atlanta, Georgia 30365  
Available through the PPIC  
Cost: Free Loan

Overconsumption, consumer preference for disposable products, and an "out of sight, out of mind" mentality among the public has led to the nation's current municipal solid waste crisis. The U.S. generates 160 million tons of this waste each year, which, when compounded by shrinking landfill space and the "not in my backyard" syndrome, leaves few waste management options. *Waste Not...Want Not* offers EPA's solution: a waste management hierarchy led by source reduction and recycling. The video stresses that government, industry, and the public must work cooperatively if the national waste reduction goal of 25 percent by 1992 is to be met. Industry leadership in preventing pollution is illustrated in highlights of 3M's Pollution Prevention Pays Program.

## **WASTE REDUCTION ASSESSMENT OPPORTUNITIES**

(32 min.)

*Tennessee Valley Authority, University of Tennessee-CIS,  
University of North Carolina Asheville-EQI, 1989*  
Attention: Carroll Duggan  
Waste Technology Program • 2F 71B Old City Hall Building  
Knoxville, Tennessee 37902  
(615) 632-3160  
Cost: \$15.00

This video summarizes the multi-media waste reduction assessment procedure and its application at several Tennessee businesses. The film uses footage shot during the Waste Reduction Assessment and Technology Transfer (WRATT) course provided by the Tennessee Valley Authority and the University of Tennessee Center for Industrial Services for retired engineers and scientists during March 1989.

## **WASTE REDUCTION ASSESSMENT AND TECHNOLOGY TRANSFER TELECONFERENCE**

(15 hours)

*The University of Tennessee*  
Center for Industrial Services, 1990  
Attention: William Keith Ridley  
226 Capitol Boulevard Building, Suite 401  
Nashville, Tennessee 37219  
(615) 242-2456  
Cost: Contact the CIS for cost information

This teleconference's training materials were prepared to provide industry and state waste reduction program and regulatory personnel with practical information on how to approach and implement a multimedia waste reduction program. The teleconference addresses the need to train both industrial and regulatory personnel. A portion of the teleconference addresses the national strategy for pollution prevention, strengthening state waste reduction programs and opportunities for local governments to promote pollution prevention. Another portion of the teleconference outlines the incentives for industry to implement waste reduction plans with successful company case studies. These eight case studies detail how the companies determined waste reduction options and

implemented the methods and techniques identified. Finally, the teleconference covers waste reduction assessment procedures that motivate people to search, screen, and put into practice measures that result in decreased waste generation. Different sessions of the teleconference can be used as "stand alone" training courses. The teleconference's training materials are on the "cutting edge" of identified waste reduction needs for industry and state programs.

## **WASTE REDUCTION PRACTICES FOR METAL FINISHERS AND ELECTROPLATERS**

*Santa Clara County Administration,*

*To be released late Spring 1990*

*Attention: Rory Kessler, Office of Planning and Development*

*70 West Hedding Street, 11th Floor, San Jose, California*

*95110*

*(408) 299-4976*

*Available through the PPIC after release date*

*Cost: Free Loan*

The basis of this video is footage from a November 1989 workshop sponsored by Santa Clara County on waste reduction practices for metal finishers and electroplaters. Its focus is on small quantity generators, and it includes case studies of Midwestern metal finishers' success stories.

## **THE 1988 WRAP AWARDS**

**(8:36)**

*Dow Chemical, July 1989*

*Attn: Dan Fellner, Environmental Communications*

*2020 Willard H. Dow Center*

*Midland, Michigan 48674*

*(517) 636-5765*

*Available through the PPIC*

*Cost: Free Loan*

This video presents a brief overview of Dow Chemical's 1988 Waste Reduction Always Pays (WRAP) awards, which are presented to Dow divisions that demonstrate innovative pollution prevention programs. The video identifies employee initiative, team effort, and a waste reduction mentality as essential ingredients in preventing the generation of industrial wastes. The winners include divisions producing chloralkalai, styron, herbicide, chlorine, agricultural chemicals, and hydrochloric acid.



## **Section VI**

# **Pollution Prevention Resources**

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*This section contains information about sources of pollution prevention assistance and information at both the state and federal levels.*

- State Pollution Prevention Contacts
- Federal Pollution Prevention Contacts
- U.S. EPA Regional Office Pollution Prevention Contacts
- Pollution Prevention Information Clearinghouse
- U.S. EPA Libraries
- Other Information and Assistance Sources

# State Pollution Prevention Contacts

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*These individuals have identified themselves to the Pollution Prevention Information Clearinghouse as contacts for pollution prevention information within their states. Summaries of each organization's activities can be found in the Electronic Information Exchange System (described in this section).*

## ALABAMA

Daniel E. Cooper  
Land Division  
Alabama Department of Environmental Management  
7751 Congressman W.L. Dickenson Drive  
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John E. Moeller  
Project Director, Regulatory Information Service  
Hazardous Materials Management and Resource Recovery (HAMMARR)  
241 Mineral Industries Building  
University of Alabama  
P.O. Drawer G  
Tuscaloosa, Alabama 35487-9644  
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## ALASKA

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Alaska Department of Environmental Conservation  
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Juneau, Alaska 99811-1800  
(907) 465-2600

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Environmental Engineer  
Alaska Health Project  
431 W. 7th, Suite 101  
Anchorage, AK 99501  
(907) 276-2864

## ARKANSAS

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Acting Chief, Hazardous Waste Division  
Arkansas Department of Pollution Control and Ecology  
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Little Rock, Arkansas 72219  
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## ARIZONA

Stephanie Wilson  
Office of Waste and Water Quality Management  
Arizona Department of Environmental Quality  
2005 N. Central Ave., Room 304  
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## CALIFORNIA

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Toxic Substances Control Division  
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California Department of Health Services  
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California Department of Health Services  
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## **COLORADO**

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## **CONNECTICUT**

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Connecticut Hazardous Waste Management Services  
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## **DELAWARE**

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Delaware Department of Natural Resources and  
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## **DISTRICT OF COLUMBIA**

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Center for Training, Research and Education for  
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## **GEORGIA**

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## **INDIANA**

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Indiana Department of Environmental Management  
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## **LOUISIANA**

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Louisiana Department of Environmental Quality  
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Maine Office of Economic and Community  
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## **RHODE ISLAND**

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## **TEXAS**

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## **WEST VIRGINIA**

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# Federal Pollution Prevention Contacts

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*The U.S. EPA offices on this list are involved in various pollution prevention issues. For further information regarding particular programs or functions, contact the appropriate office.*

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U.S. EPA  
401 M Street, S.W. (RD-681)  
Washington, D.C. 20460  
(202) 475-7161

Office of Solid Waste  
U.S. EPA  
401 M Street, S.W. (WH-565)  
Washington, D.C. 20460  
(202) 382-4807

Asbestos and Small Business Ombudsman  
U.S. EPA  
401 M Street, S.W. (A-149 C)  
Washington, D.C. 20460  
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Waste Minimization Branch  
Office of Research and Development  
Risk Reduction Engineering Laboratory  
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(513) 569-7215

RCRA/Superfund Hotline  
1 (800) 424-9346





# U.S. EPA Regional Office Pollution Prevention Contacts

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*The individuals on this list are the official contacts for pollution prevention matters concerning the EPA Regional offices. Summaries of each Region's pollution prevention activities can be found in the EIES (described in this section).*

## REGION I

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## REGION IV

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## REGION VI

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## **REGION VII**

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## **REGION VIII**

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# Pollution Prevention Information Clearinghouse

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*The Pollution Prevention Information Clearinghouse (PPIC) is dedicated to reducing or eliminating industrial pollutants through technology transfer, education, and public awareness. The Clearinghouse contains technical, policy, programmatic, legislative, and financial information concerning source reduction and recycling efforts in the United States and abroad. It is a free, non-regulatory service of the U.S. EPA and is accessible by personal computer, telephone hotline, or mail.*

## **PPIC Structure**

The Clearinghouse is comprised of four information exchange mechanisms:

### **Repository**

A hard copy reference library containing the most current pollution prevention information. Case studies, fact sheets, programmatic and legislative information, and training materials are included in the Repository.

### **Electronic Information Exchange System (EIES)**

A 24-hour electronic network consisting of a message center, technical data bases, issue-specific "mini-exchanges," and a calendar of events devoted exclusively to pollution prevention. The system enables the user to access the Repository, a document ordering service, and PPIC technical staff.

### **Hotline**

A toll free telephone service to answer or refer questions and provide a link to the EIES for users without access to a personal computer.

### **Outreach Efforts**

Workshops and information packets containing industry-specific materials on pollution prevention opportunities.

## Accessing the PPIC

### Hotline

The PPIC uses the RCRA/Superfund hotline to answer or refer pollution prevention questions.

1 (800) 424-9346

(202) 382-3000 (inside the Washington, D.C. area)

### Mail

Pollution Prevention Information Clearinghouse  
Science Applications International Corporation  
8400 Westpark Drive  
McLean, Virginia 22102

### Personal Computer

Anyone can access the EIES using either an IBM PC (or compatible), Apple, or a dumb terminal equipped with a modem (1200 or 2400 baud), and appropriate communications software (e.g. CrossTalk™).

Your communications protocol should be set to no parity, 8 data bits, and 1 stop.

Example:

Using CrossTalk™, type in the bold characters at the "Command?" prompt:

<b>NAme</b>	<b>EIES</b>
<b>NUmber</b>	<b>703-506-1025</b>
<b>MOde</b>	<b>Call</b>
<b>DAta</b>	<b>8</b>
<b>PArity</b>	<b>N</b>
<b>STop</b>	<b>1</b>
<b>GO</b>	

Note: You may have to prefix the number with "8" or "9" to access an outside line, or "1" for long distance calls, as appropriate to your installation. A toll-free 800 number has been established for authorized federal, state, and local government users – contact the PPIC Technical Support Office at (703) 821-4800 to see if you qualify.

Upon first calling the EIES, you must answer some brief questions, select and enter a password (you must remember your password for subsequent calls to the System).

### EIES User Guide

An "EIES User Guide" is available and may be obtained free-of-charge by either leaving a message on the System addressed to "PPIC Technical Staff," writing to the above address, or calling the Hotline.

# U.S. EPA Libraries

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*EPA libraries are excellent sources of pollution prevention information: many have extensive collections dedicated to this specific topic.*

## **EPA Headquarters Library**

Library  
U.S. EPA  
401 M Street, S.W. (PM 211A)  
Washington, DC 20460  
(202) 283-5921                      FTS 382-5921

## **EPA Regional Libraries**

Peg Nelson, Librarian  
U.S. EPA Region I  
John F. Kennedy Federal Building, Room 1500  
Boston, Massachusetts 02203  
(617) 565-3300                      FTS: 835-3300

Library  
U.S. EPA Region II  
26 Federal Plaza  
New York, New York 10278  
(212) 264-2881                      FTS: 264-2881

Diane M. McCreary, Librarian  
U.S. EPA Region III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107  
(215) 597-0580                      FTS: 597-0580

Priscilla Pride, Librarian  
U.S. EPA Region IV  
345 Courtland Street, NE  
Atlanta, Georgia 30365  
(404) 347-4216                      FTS: 347-4216

Ms. Lou W. Tilley, Librarian  
U.S. EPA Region V  
230 South Dearborn Street, 16th Floor  
Chicago, Illinois 60604  
(312) 353-2022                      FTS: 353-2022

Nita House, Librarian  
U.S. EPA Region VI  
1445 Ross Avenue, 12th Floor, Suite 1200  
Dallas, Texas 74202-2733  
(214) 655-6441                      FTS: 255-6441

Connie McKenzie, Librarian  
U.S. EPA Region VII  
726 Minnesota Avenue  
Kansas City, Missouri 66101  
(913) 236-2828                      FTS: 757-2828

Delores Eddy, Librarian  
U.S. EPA Region VIII  
999 18th Street, Suite 500  
Denver, Colorado 80202-2405  
(303) 293-1444                      FTS: 564-1444

Garry Lau, Librarian  
U.S. EPA Region IX  
215 Fremont Street  
San Francisco, California 94105  
(415) 974-8076                      FTS: 454-8076

Juli Sears, Librarian  
U.S. EPA Region X  
1200 Sixth Avenue  
Seattle, Washington 98101  
(206) 442-1289                      FTS: 442-1289

# Other Information and Assistance Sources

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*This list contains pollution prevention resources not covered in the previous sections.*

## **Northeast Multimedia Pollution Prevention Program (NEMPP)**

The NEMPP was established in 1989 to enhance the capabilities of state environmental officials in New England, New Jersey, and New York to implement effective source reduction programs. The project involves three components: establishing a clearinghouse of information on pollution prevention, including technical data, reports, case studies, and a list of pollution prevention experts; conducting training sessions for state officials and industry representatives on source reduction and recycling policies, strategies, and technologies; and researching source reduction strategies for the major toxic metals in incinerator emissions and ash. The clearinghouse provides pollution prevention information to the public, industry representatives, and state officials and identifies upcoming pollution prevention meetings and conferences.

Terri Goldberg, Program Manager  
Northeast Multimedia Pollution Prevention  
Northeast Waste Management Officials' Association  
85 Merrimac Street  
Boston, Massachusetts 02114  
(617) 367-8558

## **Waste Reduction Resource Center for the Southeast (WRRC)**

The WRRC was established in 1988 to provide multi-media waste reduction support for the eight states of U.S. EPA Region IV (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee). The Resource Center has the capability to provide technical waste reduction information from the national level, from federal governmental agencies, from all 50 states, and from numerous private sources. The Center serves as a clearinghouse that will provide answers and information to people who request it, identify upcoming conferences and meetings, identify new publications, and provide technical staff support to prepare reports on industry-specific waste



reduction questions. A key element of the Center is the capacity to assign trained engineers to respond to questions regarding specific waste reduction problems.

Gary Hunt  
Waste Reduction Center for the Southeast  
c/o 512 North Salisbury Street  
P.O. Box 27687  
Raleigh, North Carolina 27611-7687  
(919) 733-7015

**RecycleNet  
Bulletin Board**

A free, privately operated bulletin board dedicated to source reduction and recycling topics. Includes a message center, bulletins, and files.

Operating hours are from 7 a.m. to 9 p.m. EST, but are subject to change. Operates at 300, 1200, or 2400 baud.

**(609) 641-9418**

RecycleNet will be moving its operation from New Jersey to California in early 1990. For information on how to connect to the Board once it moves, write to Fred McCamic, S-204, 5420 Repecho Drive, San Diego, California 92124.