



OPTIONS

March
1993

Buzzards Bay Toxic Use Reduction Program Goal and Mission Statement
To help industrial, institutional and commercial entities reduce the use and discharge of toxic materials to Buzzards Bay and its watershed and further assist them to comply with state and local discharge limits and meet toxic use reduction goals under the commonwealth's Toxic Use Reduction Act.



BBP/TUR PROGRAM PARTICIPANTS TO DATE INCLUDE:

Dartmouth Finishing Corp.
Coyne Textile
Revere Sink
Acushnet Company
Aerovox
AFC/A Monogram Co.
City of New Bedford
Brittany Dyeing Corp.
New Bedford Area
Chamber of Commerce
Codman and Shurtleff
M.F. Foley, Inc.
Fibre Leather
Frionor
Town of Fairhaven
Oberon Company
Star Plating

PRINTING INDUSTRY WORKSHOP

The Northeast Waste Management Officials' Association (NEWMOA), in conjunction with the Massachusetts Office of Technical Assistance, conducted a workshop on February 8th, entitled "Pollution Prevention Techniques for the Printing Industry."

Guest speakers included Marcia Kinter, Director of Government Affairs, Screen Printers Association International; Steve Wallenback from W.E. Andrews Company; and John Burban from Deluxe Corporation.

Topics covered during the day long workshop included recent developments in the printing industry, major processes that generate waste and pollutants, changes implemented to reduce these wastes, and new products and technology.

The workshop was attended by industry and environmental representatives from New York, Connecticut, Vermont, New Hampshire, Rhode Island and Massachusetts. It provided a useful exchange of information from various state officials and presented an extensive source of industry information.

The Buzzards Bay Project/Toxic Use Reduction Program will be conducting its own print industry workshop for local printers. This workshop is currently scheduled for June 15th. Local printers are participating in an informal survey to help develop a workshop that addresses their specific needs and concerns. If you would like to participate in this process or have any suggestions, please call us.

Hazardous Materials Management and Chemical Reporting

On a snowy January 26th, BBP/TUR presented the second in a series of workshops, this one on "Hazardous Materials Management and Chemical Reporting for the Tier II Reporter".

This half-day workshop was presented by Grace M. Donnelly, Ph.D., President, Biospec, Inc. Dr. Donnelly founded Biospec in 1981. Her company advises small manufacturers on a variety of safety, health, environmental and related technical matters. Prior to establishing Biospec, Grace was on the faculty of the University of Kentucky Medical School and at the City of Hope Medical Center in California.

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The BBP/TUR Program would like to thank all those who participated and we hope the workshop provided some help in preparing your March 1st, "Tier II" reports!

Calendar of Events: did you know...

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and if you're interested...

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Sustainable Manufacturing

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Kennedy specializes in developing and implementing sustainable manufacturing and incorporating these practices into quality management. **"Sustainable manufacturing is a comprehensive business strategy that maximizes the economic and environmental returns on a variety of innovative pollution prevention programs."** Areas of discussion included toxic use reduction, life cycle analysis, efficient energy management and other types of pollution prevention.

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Toxic Use Reduction Program
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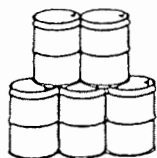
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THE MASSACHUSETTS RIGHT TO KNOW LAW

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POLLUTION PREVENTION TECHNIQUES

In the last issue of "OPTIONS" we outlined the methods available which may be applied towards pollution prevention. Another of the options available has to do with process and equipment changes. The **Buzzards Bay Project** has available a series of printed recommendations and suggestions that describe the implementation of pollution prevention techniques within industry.

The best way to begin planning and implementation of pollution prevention, however, is to seek

the free services of the Office of Technical Assistance, the non-regulatory technical branch of the Executive Office of Environmental Affairs. OTA's purpose is to assist Massachusetts industry in making viable changes in production practices that reduce or eliminate the use of toxic substances and the generation of toxic by-products. OTA provides it technical assistance at workshops, clinics, and most importantly - through site visits and follow-up reports that usually contain numerous pollution preventing and cost savings recommendations. OTA's trained technical assistance staff base their recommendations on their own long time experience doing pollution prevention work in industry and on their familiarity with the successful processes or modifications implemented by other companies to solve toxic use or management problems. OTA prepares and publishes case studies on TUR projects, which are available either through **OTA** or the **Buzzards Bay Project Office**. For more information on the services of **OTA** contact Rich Bizzozero at (617) 727-3260 (x684) or by contacting the **Buzzards Bay Project Office**.



NEBSR

Founded in 1988, the organization called New England Businesses for Social Responsibility is a non-profit trade association of businesses committed to encouraging and promoting socially responsible industries. NEBSR's mission is to create a New England business climate which recognizes that long term, sustainable profitability is directly related to acting in a socially responsible and ethical manner. Profitability and social responsibility comprise a dual bottom line; they are equally important and inseparably connected. With a number of major industrial and food processing industries, periodic plant tours incorporate this concept of dual bottom line responsibility through examples of more efficient manufacturing operations through raw materials purchasing and by-product recycling methods that end up as profitable line operations within firms.

NEBSR is the first association of this kind in the United States. In November, NEBSR conducted it's 5th annual conference entitled "Business Mapping the Future of Social Responsibility". Presentations and discussions at the conference included: Corporate Environmental Ini-

November 1993



tatives - a successful dual bottom line; Community Balance Sheet - accounting for multiple bottom lines; The Workplace of Tomorrow; and Empowering Employees to Take Responsibility.

Additional information can be received by either contacting the **Buzzards Bay Project** or writing to NEBSR, 45 Lyme Rd., - Suite 304, Hanover, NH 03755.



IMPORTANT PHONE NUMBERS

Buzzards Bay Project - Toxic Use Reduction Program

Fred Kalisz, Jr. (508) 748-3600 Marion

Exec. Office of Environmental Affairs - OTA

Rich Bizzozero (617) 727-3260 (x684) Boston

Department of Environmental Protection

Carl Natho (508) 948-2830 Lakeville

Department of Labor and Industries - Division of Industrial Safety

(617) 727-3464 (x7123)

Division of Occupational Hygiene

(617) 969-7177

OSHA - Hazards Communication Standard

(617) 223-6712

New England Businesses for Social Responsibility

Rebecca Reynolds (617) 951-0453



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WORKSHOP SERIES TO BEGIN

Recently a survey was distributed with regard to a workshop series that the Buzzards Bay Project is planning for later this fall and winter. These half day seminars, offered at no cost to interested parties, will include presentations on toxic use reduction and pollution prevention methods.

The first seminar entitled "YOUR RIGHT TO KNOW", an informative session on the **Massachusetts Right To Know Law**, is being planned for Wednesday, December 15, 1993. This program being done in conjunction with OTA and SRPEDD will be conducted at the Howland Green Library in New Bedford between 9 am and 12 noon. Registration information can be obtained by calling the Buzzards Bay Project (508) 748-3600.

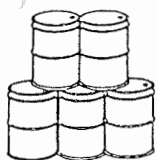


CALENDAR OF COMING EVENTS

- November 17: OTA Workshop: Acid Waste
- December: OTA Workshop: Electroplating and conventional coatings
- December 15: BBP Workshop "YOUR RIGHT TO KNOW", New Bedford
- January 12: OTA/TUR Plan Preparation Workshop, Taunton
- February 9: OTA/TUR Plan Preparation Workshop, Taunton
- March 9: OTA/TUR Plan Preparation Workshop, Taunton

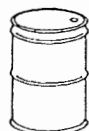
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TOXIC USE REDUCTION PLANNING ASSISTANCE WORKSHOPS

Getting Started/Process Characterization

The Toxic Use Reduction Institute will begin to hold workshops to provide Toxic Use Reduction (TUR) planners from industry with guidance in preparing the plans which are due under the TUR Act on July 1, 1994. The training workshops will include an introduction to getting started in the planning process and a comprehensive overview of how to characterize industrial processes. The discussion of process characterization will include the following elements: process flow diagramming and identifying production units, materials accounting and identifying the costs of toxics within a unit of production. Workshop instructors will include representatives from the Department of Environmental Protection, the Office of Technical Assistance and the Toxics Use Reduction Institute staff as well as Massachusetts industry.

The workshop for the southeast region will be on Thursday, August 26 in Taunton, Massachusetts. For more information and registration contact the Massachusetts Toxics Use Reduction Institute at 508-934-3144 before August 10.



POLLUTION PREVENTION TECHNIQUES:

One key to Toxic Waste Source Reduction is knowing pollution prevention techniques. Here are just a few options that a metal finishing or fabrication facility can consider to incorporate pollution prevention techniques:

- change processes and equipment
- substitute less toxic material into production
- control material and slug discharge
- separate and segregate waste materials
- conduct good housekeeping/regular maintenance/employee education
- implement water and energy conservation
- implement programs to recycle/waste exchanges

To receive more specific recommendations on each of these areas as well as source documents on these methods, contact the Buzzards Bay Project office at (508) 748-3600.



SURVEY TO EVALUATE TUR KNOWLEDGE

The Buzzards Bay Project's Toxic Waste Source Reduction Program is currently conducting a survey of commercial and industrial firms in the Buzzards Bay area to determine baseline knowledge pertaining to TUR planning and programming. The survey, being done in conjunction with the Urban Institute of Washington DC, should be completed by the end of August.



ONE-ON-ONE ASSISTANCE AND PLANNING

The Office of Technical Assistance will be providing monthly one-on-one planning sessions for company representatives working on TUR plans due on July 1994. Representatives of the various agencies involved in this filing process will be available for personalized consultation. Intended to be "roll up your sleeves" working periods, these informal sessions will be conducted at the Community Room of the Taunton Galleria between the hours of 9 am and 4 p.m. This technical support program will commence September 8, with follow up meetings every second Wednesday of the month through July of 1994. For more information please contact Rich Bizzozero at the OTA (617) 727-3260 (x684).



THE OTA

An Invaluable Resource for Case Studies

The OTA prepares periodic case studies on real life situations where they have played an integral role in recommending solutions. Copies of these case studies can be obtained from the OTA directly, or by contacting the Buzzards Bay Project office. Current case studies include:

- zinc use reduction/customer education
- metal recovery systems
- waste water and chemical use reduction
- and zinc discharge reduction

just to mention a few!



see next page for more OPTIONS

ADVISORY COMMITTEE BEING FORMED

The Buzzards Bay Project's Toxic Use Reduction Program is currently forming an Advisory Committee. The Program's purpose is to assist industrial, commercial, and public institutions in the Buzzards Bay area to implement toxic use reduction recommendations that were contained in the BBP-Comprehensive Conservation and Management Plan that had been adopted by both the Commonwealth of Massachusetts and the U.S. Environmental Protection Agency.

The program will work towards identifying commercial/industrial firms in need of TUR assistance to comply with TURA or local discharge permits; provide workshops on toxic waste use, management and source reduction; develop and provide for the distribution of printed materials; and finally to conduct on-site technical/assistance, and overseeing technical experts working towards these goals.

This effort is being conducted by the Buzzards Bay Project, a non-regulatory, advisory and planning organization, to assist industrial, institutional and commercial entities reduce the use and discharge of toxic materials to Buzzards Bay and its watershed and further assist them to comply with state and local discharge limits and meet toxic use reduction goals under the Commonwealth's Toxic Use Reduction Act. The creation of an advisory committee to this effort will not only allow for input but will be key in determining the direction of reduction efforts in the community. Firms participating in the formation of the Advisory Committee include: Acushnet Company, Aerovox, Brittany Dyeing, The City of New Bedford, the Town of Fairhaven, the New Bedford Area Chamber of Commerce as well as DEP and OTA.

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WHAT ARE NPDES PERMITS?

The National Pollutant Discharge Elimination System (NPDES) is a principal mechanism for eliminating water pollution under the federal Clean Water Act. In 1972, this landmark legislation set an ambitious national agenda, calling for water clean enough for recreational purposes and fish, shellfish, and wildlife protection by 1983 and elimination of pollutant discharges by 1985.

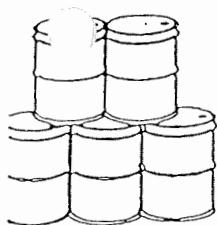
NPDES permits limit the type and amount of pollutants that can be released through pipes into rivers, streams, and other surface waters. The permits also require monitoring to determine if limits are being met. Pollutant discharges are expected to decrease in tandem with pollution control technology advances.

No one can discharge wastes into surface waters without an NPDES permit. 1987 amendments to the Act require certain municipal and industrial stormwater discharges to be regulated under NPDES. While wastewater dischargers are issued individual permits, a city could be granted one stormwater permit for all its storm drain outfalls. Any stormwater discharge causing water quality problems can be required to get a permit immediately. For more information:

NPDES Permitting
U.S. Environmental Protection Agency
John F. Kennedy Federal Building
Boston, MA 02203

(reprinted from "How to Protect Your River or Stream" by Riverways Programs, Massachusetts Department of Fisheries, Wildlife and Environmental Law Enforcement)

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High School
The Standard Times
Sacred Heart Nursing Home
Riccardi's
Newport Creamery
Alberox
Olin-Aegis
Elite Cleaners
Clean Rentals
Benetti Printing
Slade Cleaners
Schaeffer Marine
American Medical
Instruments
American Flexible Conduit
Bush Cleaners

TUR Gains Momentum In New Bedford

Looking back on our first year of operation, the Buzzards Bay Project Toxics Use Reduction Program (BBP/TUR), has seen a steady increase in Toxics use reduction efforts in the New Bedford area. A strong partnership has developed between the BBP/TUR, the Office of Technical Assistance, the New Bedford Waste Water Division and local New Bedford industries, a partnership aimed at meeting the environmental challenges facing both New Bedford industries and the City of New Bedford.

Over the first few months, the BBP/TUR program worked to establish community awareness to the resources which the BBP/TUR can provide to assist New Bedford industries with their TUR efforts. Much effort went into educating industries to the importance of TUR, and helping them understand their responsibilities under the Toxic Use Reduction Act of 1989.

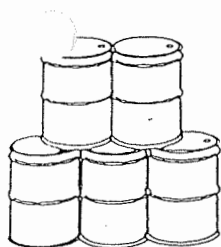
Our recently completed workshop series was developed to assist industries with their TUR efforts by addressing specific TUR topics for different industries. Topics ranged from Hazardous Chemical Management and Reporting to Metals Abatement and Recovery.

We would like to thank everyone who helped us present our workshop series and helped make our first year of operation a success, including Rich Bizzozero, Massachusetts Office of Technical Assistance, Carl Natho, Massachusetts Department of Environmental Protection, Bill Napolitano, Southeast Regional Planning and Economic Development Office, Ron Labelle and Vin Furtado, New Bedford Wastewater Division, and especially all of the participants and representatives from New Bedford industries.

We have seen many examples of New Bedford firms committed to achieving TUR goals and taking the initiative to make that happen. These firms are examples for others to follow. As we look ahead, the BBP/TUR program looks forward to continuing our efforts to assist all New Bedford companies meet the environmental challenges of the future.

Plan Ahead.....TUR Planners Course!

The Massachusetts Toxic Use Reduction Institute (TURI) will be offering the next Toxics Use Reduction Planners Course in early September. The exact dates are unavailable at this time, but they should be announced soon. This 48 hour course is offered at the Toxics Use Reduction Institute's office, located at the University of Massachusetts Lowell campus. Anyone planning on taking this course or interested in more information should contact Jody Hensley at the TURI. (508) 934-3275



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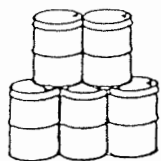
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In the last issue of "OPTIONS" we outlined the methods available which may be applied towards pollution prevention. Another of the options available has to do with process and equipment changes. The Buzzards Bay Project has available a series of printed recommendations and suggestions that describe the implementation of pollution prevention techniques within industry.

The best way to begin planning and implement-

the free services of the Office of Technical Assistance, the non-regulatory technical branch of the Executive Office of Environmental Affairs. OTA's purpose is to assist Massachusetts industry in making viable changes in production practices that reduce or eliminate the use of toxic substances and the generation of toxic by-products. OTA provides it technical assistance at workshops, clinics, and most importantly - through site visits and follow-up reports that usually contain numerous pollution preventing and cost savings recommendations. OTA's trained technical assistance staff base their recommendations on their own long time experience doing pollution prevention work in industry and on their familiarity with the successful processes or modifications implemented by other companies to solve toxic use or management problems. OTA prepares and publishes case studies on TUR projects, which are available either through OTA or the Buzzards Bay Project Office. For more information on the services of OTA contact Rich Bizzozero at (617) 727-3260 (x684) or by contacting the Buzzards Bay Project Office.



NEBSR

Founded in 1988, the organization called New England Businesses for Social Responsibility is a non-profit trade association of businesses committed to encouraging and promoting socially responsible industries. NEBSR's mission is to create a New England business climate which recognizes that long term, sustainable profitability is directly related to acting in a socially responsible and ethical manner. Profitability and social responsibility comprise a dual bottom line; they are equally important and inseparably connected. With a number of major industrial and food processing industries, periodic plant tours incorporate this concept of dual bottom line responsibility through examples of more efficient manufacturing operations through raw materials purchasing and by-product recycling methods that end up as profitable line operations within firms.

NEBSR is the first association of this kind in the United States. In November, NEBSR conducted it's 5th annual conference entitled "Business Mapping the Future of Social Responsibility". Presentations and discussions at the conference included: Corporate Environmental Im-

tiatives - a successful dual bottom line; Community Balance Sheet - accounting for multiple bottom lines; The Workplace of Tomorrow; and Empowering Employees to Take Responsibility.

Additional information can be received by either contacting the **Buzzards Bay Project** or writing to NEBSR, 45 Lyme Rd., - Suite 304, Hanover, NH 03755.



IMPORTANT PHONE NUMBERS

Buzzards Bay Project - Toxic Use Reduction Program

Fred Kalisz, Jr. (508) 748-3600 Marion

Exec. Office of Environmental Affairs - OTA

Rich Blizzozero (617) 727-3260 (x684) Boston

Department of Environmental Protection

Carl Natho (508) 948-2830 Lakeville

Department of Labor and Industries - Division of Industrial Safety

(617) 727-3464 (x7123)

Division of Occupational Hygiene

(617) 969-7177

OSHA - Hazards Communication Standard

(617) 223-6712

New England Businesses for Social Responsibility

Rebecca Reynolds (617) 951-0453



OPTIONS

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Program Coordinator: Frederick M. Kalisz, Jr.

Editorial & Technical Assistance: Rich Blizzozero, Tracy Wamcke



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WORKSHOP SERIES TO BEGIN

Recently a survey was distributed with regard to a workshop series that the Buzzards Bay Project is planning for later this fall and winter. These half day seminars, offered at no cost to interested parties, will include presentations on toxic use reduction and pollution prevention methods.

The first seminar entitled "YOUR RIGHT TO KNOW", an informative session on the **Massachusetts Right To Know Law**, is being planned for Wednesday, December 15, 1993. This program being done in conjunction with OTA and SRPEDD will be conducted at the Howland Green Library in New Bedford between 9 am and 12 noon. Registration information can be obtained by calling the Buzzards Bay Project (508) 748-3600.



CALENDAR OF COMING EVENTS

November 17: OTA Workshop: Acid Waste

December: OTA Workshop: Electroplating and conventional coatings

December 15: BBP Workshop "YOUR RIGHT TO KNOW", New Bedford

January 12: OTA/TUR Plan Preparation Workshop, Taunton

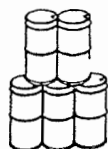
February 9: OTA/TUR Plan Preparation Workshop, Taunton

March 9: OTA/TUR Plan Preparation Workshop, Taunton

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OPTIONS

November
1994



Buzzards Bay Toxic Use Reduction Program Goal and Mission Statement

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New Bedford Wastewater Plant Update

Construction of the new secondary wastewater treatment plant in New Bedford continues to run smoothly, and as of October 15th, is over 70% completed. Ronald Labelle, Superintendent of New Bedford Wastewater Division told the BBP/TUR that he is excited about the progress to date and is "extremely pleased". The administration building is completed and is ready for occupancy; the roads and parking areas have been paved; the majority of the landscaping has been completed; the headworks are complete and vendor training on new equipment is about to begin. The project is currently about six months ahead of schedule and is expected to begin operating in January 1996. Every company currently on the Industrial Pretreatment Program is reminded that discharge limits to the new plant are expected to get stricter in order to comply with federal discharge permits. NOW is the time to implement Toxics Use Reduction Efforts!

Getting Tough!

The EPA is determined to put Environmental Justice on the forefront of its agenda and is aggressively perusing environmental violators. In two separate cases, two Connecticut men received criminal convictions and prison terms for the release of toxic waste into the environment.

Carlo Arco of Bridgeport, Connecticut was sentenced to fifteen months in prison for his role in a cyanide spill at Automatic Plating Company in which he failed to report. Robert Hopkins, former vice president of Manufacturing for Sirol International Corp. of Killingly, Connecticut was sentenced to 21 months in jail for falsifying samples from the company wastewater treatment system. Evidence established that Hopkins and others illegally diluted, filtered or otherwise altered test samples. The EPA's Criminal Investigation Division investigated both cases.

New Hazardous Waste Rule

The long awaited "Universal Treatment Standard" rule from EPA is finally here. The rule was recently published in the September 19th Federal Register...all 30 pages of it! The rule not only establishes the land ban treatment standards for organic TCLP wastes, it also modifies the existing exclusion for "closed-loop" recycling systems. A copy of this rule will be available through our office as part of our pollution prevention references

New Computer Network for Hazmat Managers and Emergency Responders

The Hazardous Materials Information Exchange (HMIX) is a new computer bulletin board designed for hazardous materials managers and emergency responders. Sponsored by the Department of Transportation and the Federal Emergency Management Agency, HMIX includes news bulletins, "abstracts" of environmental, transportation, and safety regs, organization contacts, and information on upcoming workshops. You can access this system by using your modem and dialing (708) 972-3275 (the telecommunications settings are 8 data bits: no parity: and one stop bit). Those without a modem or who need assistance can call toll-free, (800) 752-6367.

New Bedford Water Conservation Audits

The Buzzards Bay Project/Toxics Use Reduction Program has begun working with water and wastewater officials from the City of New Bedford and private industries to develop a city wide water auditing program as a community service. The proposed program is designed to assist residential, industrial and municipal users of water to conduct comprehensive analyses of water consumption and seek methods to reduce existing consumption levels. By reducing the amount of water used, the amount of contaminated wastewater is equally reduced.

Small Industries and Businesses

The construction of New Bedford's new secondary treatment plant, the cost of water, and the costs of disposing of wastewater has awakened many businesses to the importance of water conservation efforts. In many respects the small industrial and business setting is in an excellent position to implement immediate savings through water conservation and management of water consumption. Most small industrial and business sites can audit the physical plant, notify employees of changes in policy, and monitor compliance. In unique cases, the responsibility of water management can be the designated duty of one person, and the need for a conscious policy and awareness development program can be handled more informally than in larger industries and businesses. Emphasizing the everyday conservation of water in the workplace, and removing or restructuring wasteful situations, will substantially reduce water consumption and save money.

The Water Audit

The most important tool in this effort to reduce the use and contamination of water is the water audit. A thorough audit of the water used by any industry or business, large or small, is the key ingredient in establishing an effective water conservation and management program. An audit serves several important functions:

- pinpoints water consumption within the organization and indicates which function and sites consume the most water.
- provides details regarding the cost of water used in the following essential areas: facility heating and cooling, process usage, and outdoor usage.
- establishes the peak water consumption times over a 24-hour period (and possible water leakage during non-working hours.)
- identifies those job sites and functions which can most readily conserve water.
- aids in defining operational and maintenance procedures which are wasteful and could be changed to yield greater savings.

In industry and business, water usage is an integral part of many operations. It should be evident that water conservation efforts are likely to enhance the overall efficiency of most industrial and business settings. Water conservation measures adopted *now* will give industries and businesses an immediate start to realizing future savings as water and sewer fees becomes more and more expensive.

Pit Stops Update

The Massachusetts Department of Environmental Protection has finalized the curriculum for the Pit Stops workshop series and the Buzzards Bay Project Toxics Use Reduction Program expects to be offering these workshops to local automotive professionals over the next few months.

The workshops are designed to provide both regulatory and pollution prevention information to Massachusetts automotive service facilities. They will provide automotive specific regulatory information relating to the Clean Air Act, Massachusetts hazardous waste, ground water protection and solid waste regulations.

Vocational school facilities will be used to provide training to area professionals in a hands-on format. The following areas of automotive industrial hazardous wastes will be specifically addressed;

- floor Drains and associated floor run-off wastewater.
- waste Oil: Storage, Recycling, Hauling and Burning
- petroleum Based Solvents and Degreasers: Alternatives and Reduction Strategies.
- emission Control Devices: Regulations and Guidelines.
- paints: Low V.O.C. paints and Application Techniques.
- air Conditioning: Recovery equipment for CFCs (Chlorofluorocarbons).
- anti-Freeze: On-site and Off-site recycling options.
- safety Kleen/Speedy Dry management and disposal options.

In addition to the training workshops, shop posters designed to remind shop personnel about responsible waste management will be distributed to area facilities.



New Hazardous Materials Labels Law



The Occupational Safety and Health Administration recently issued a final rule requiring employers to keep labels, markings or placards on hazardous materials packages, containers, and vehicles until the hazards are gone. Taking effect on October 17, the regulation specifically states "any employer who receives a hazardous materials package that has to be marked, labeled, or placarded....shall retain those markings, labels, and placards on the package until the packaging is sufficiently cleaned of residue and purged of vapors to remove any potential hazards."

The regulation goes on to say that placards or markings have to be retained on freight containers, railcars, motor vehicles or transport vehicles "until the hazardous material is sufficiently removed to prevent any potential hazards." For more information, contact James Foster at (202) 219-8151.

Eco-Expo 94'

On September 24th and 25th, the World Trade Center in Boston was the site of the 1994 Green Business and Conference Trade Show, or "Eco-Expo". The conference offered over 20 seminars addressing a broad range of environmental issues. Sponsors included private companies, the City of Boston, Boston Chamber of Commerce, Massachusetts Department of Environmental Protection and Massachusetts Executive Office of Environmental Affairs. Keynote speakers included Dr. Noel Brown, Director, United Nations Environmental Programme and John DeVillars, Regional Administrator, United States Environmental Protection Agency. The trade show featured exhibits from private companies and many innovative products and technologies were on display. The conference was well attended and provided an excellent forum to learn about many different environmental issues and technologies.

Handling Mercury-Containing Light Bulbs

The EPA has proposed two new options for handling mercury-containing light bulbs, which can fail the Toxicity Characteristic Leaching Procedure tests for toxicity and thus be considered a hazardous waste. The options are: (1) a "conditional exclusion" from hazardous waste regulations, as long as the bulbs are disposed of in a municipal landfill that meets EPA standards, or (2) reclassifying the bulbs as "universal" hazardous waste. EPA proposed creating a new category of universal wastes more than a year ago, to streamline the requirements for commonly generated wastes like used nickel-cadmium or alkaline batteries, and to facilitate recycling. The agency will seek public comments on the proposal before considering any final actions. For more information on bulb disposal contact Valerie Wilson, EPA, (202) 260-4678 or Grace Offin, Massachusetts Office of Technical Assistance, (617) 727-3260 (x696).

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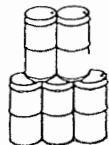
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December
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To help industrial, institutional and commercial entities reduce the use and discharge of toxic materials to Buzzards Bay and its watershed and further assist them to comply with state and local discharge limits and meet toxic use reduction goals under the commonwealth's Toxic Use Reduction Act.



TUR Planners Continuing Education Conference

A two-day conference for TUR planners will be held on February 27-28, at the Royal Plaza Hotel and Trade Center in Marlborough, MA. The conference will provide an opportunity for TUR planners to meet and attend workshops addressing current issues and their future needs. Registration packages will be mailed to all certified TUR planners in February.

An Update from the Office of Technical Assistance...

The MACT (maximum achievable control technology) rule for Halogenated solvent vapor degreasers went final the first week of December. The rule contains provisions which require that "new" sources (constructed or modified since November 29, 1993, file notification within the first quarter of 1995 (firm date not yet finalized). Existing sources have until August 31, 1995 to file notification.

Making Compliance Work For You A Workshop
Thursday, January 19, 1995 - 8 am to 12 noon at the
Holiday Inn - Taunton, MA Presented by OTA.

Workshop Content:

- * reviewing RACT (reasonably available control technology)
- * demonstration of new software for calculating VOC (volatile organic compounds) content of coatings
- * permitting innovative and pollution prevention projects
- * access to CAA information
- * assistance for small business.

For more information and registration contact:
Fred Kalisz or Steve McKenna at (508) 748-3600.

Toxics Use Reduction Planners Course

The Toxics Use Reduction Institute (TURI) is planning to offer the next Toxics Use Reduction Planners course in February. The course will be offered at the TURI in Lowell, Massachusetts with the possibility of being offered at other locations for groups of 15 or more people. Contact the Toxics Use Reduction Institute, (508) 934-3144 for more information.

A Practical Guide To Toxics Use Reduction

Benefitting From TUR At Your Workplace

*Book Of The Month Selection!
Outstanding reviews-The critics love it!
Destined to become a classic.
Available through BBP/TUR!*



Office of Technical Assistance
Executive Office of Environmental Affairs
Commonwealth of Massachusetts



New In 95'.....We're
putting our
Be²st Effort forward,
Details To Follow!



BBP/TUR Year In Review

The holiday season is upon us. A time to reflect upon the year past and a time to look ahead at the coming year. Here at the BBP/TUR, the past twelve months were spent successfully in promoting toxic use reduction and pollution prevention at the local level.

One of our primary activities was the presentation of an industry workshop series on toxic use reduction and pollution prevention. Workshop presentations included: Hazardous Materials Management and Chemical Reporting; Impacting Water Use in Local Industry; Sustainable Manufacturing; Perc-Drycleaning; Grease, Oil and Fats in the Wastestream; Pollution Prevention Techniques for the Printing Industry; and Metals Abatement and Recovery. As always, some presentations were more successful than others, and we have welcomed the feedback from the many people who have attended.

Another effort has been the development of a clearing house of pollution prevention and toxic use reduction publications and materials. These materials have been made available through our office as well as at workshop presentations.

Site visits to assist area facilities with their TUR efforts have been another one of our efforts. Many visits were made in conjunction with the Massachusetts Office of Technical Assistance (OTA) to offer our services, and to provide regulatory compliance assistance in specific TUR applications.

The BBP/TUR has worked closely with the New Bedford Wastewater Division and their Industrial Pretreatment Coordinator to promote TUR efforts to all firms currently in the pretreatment program as well as other industrial operations in New Bedford. Continued efforts have been made to help industry realize the potential implications of the strict discharge limits under which the new secondary treatment plant must operate. Construction of the plant is well ahead of schedule and it is expected to come "on line" in late 1995 or early 1996. The time to implement aggressive TUR efforts is NOW if we are to help ensure the successful operation of this needed facility.

Throughout the year we have tried to keep you up to date on local TUR activities and important TUR issues

through our periodic newsletter "OPTIONS". Approximately 150 firms, institutions and organizations currently receive our newsletter. If you know of anyone who may be interested in receiving this publication please call us at 748-3600 and let us know their name and address and they will be added to our list.

There are many local TUR success stories and examples of firms making substantial progress in their TUR efforts. One New Bedford company, Johnson & Johnson Professional, Inc., received statewide recognition by winning the 1994 Governor's Award for Outstanding Achievement in Toxics Use Reduction. Johnson & Johnson provides an excellent example of innovative TUR efforts which are both environmentally beneficial and economically viable.



What's Ahead For 1995?

The BBP/TUR and the Massachusetts OTA will begin its next workshop series in late January or early February with a workshop for the automotive repair industry called "Pit Stops" and will cover automotive regulatory compliance issues. Other tentative workshops include: MACT Standards- Vapor Degreasing and Chrome Plating, Shore Marine Repair Facilities- Regulatory Compliance Issues, Textile Industry- Innovative, Alternative Technologies. A pollution prevention /vendor day is also being planned for this spring. If you have an area or industry which you would like to address, please let us know. We are here to assist YOU.

In addition to the workshop series, there will be a local newspaper series on TUR and Pollution Prevention efforts in New Bedford. The series will also provide an overview of the construction of the New Bedford secondary treatment facility and its impact on the residents of New Bedford. Promotion of the 1995 Governor's Award for Toxics Use Reduction will begin in early spring and we will be available to assist in the application process for this award. Finally, the BBP/TUR will continue to work with the OTA to offer the full services of on-site technical assistance to help achieve Massachusetts TUR goals. Happy Holidays from everyone at the Buzzards Bay Project/Toxics Use Reduction Program.

OPA and Above Ground Storage Tank Owners

The EPA has determined that certain facilities that store oil near rivers, lakes and other bodies of water must develop and submit to the regulators "facility response plans". The rule was mandated by the 1990 Oil Pollution Act (OPA).

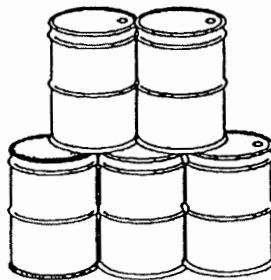
Existing facilities had to submit these plans by February 18, 1993. Now, EPA is requiring the owners or operators that have met this deadline to revise and resubmit their plans to the regional EPA office by February 18, 1995. The existing facilities that never got around to developing a plan are also expected to file an initial spill response plan by this February 18, 1994 deadline also.

Who's Regulated?

"Owners and operators of any non-transportation related onshore facility that, because of its location, could reasonably be expected to cause substantial harm to the environment by discharging oil into or on U.S. waters". "Substantial harm" has the following criteria:

- The facility transfers oil over water and has a total oil-storage capacity greater than or equal to 42,000 gallons,
- The facility's total oil-storage capacity is greater than or equal to 1 million gallons, and one or more of the following is true:
 - (a) the facility does not have secondary containment for each above ground storage area large enough to contain the capacity of the largest above ground oil tank;
 - (b) the facility is located close enough to wildlife or sensitive environments to damage them with a discharge;
 - (c) the facility is located close enough to a public drinking-water supply to shut it down with an oil spill; or
 - (d) the site has had a reportable oil spill in an amount greater than or equal to 10,00 gallons within the last five years.

If you have above ground oil tanks but don't meet any of these criteria, then you do not have to prepare and submit a "response plan". For more information on the regulation contact EPA's Bobby Lively-Diebold at (703) 356-8774.



Other USTs info sources

The federal government has made available a report on upgrading USTs. Under the Resource Conservation and Recovery Act, you have to upgrade existing above ground and underground storage tanks so that they comply with spill-, overfill-, and corrosion protection requirements by December 1998. To obtain this report--"Don't Wait Until 1998"- contact EPA's RCRA Hotline at (800) 424-9346.

1995 Toxics Use Reduction Award

Over the past year many companies and institutions in southeastern Massachusetts have worked aggressively to implement toxic use reduction strategies and to achieve TUR goals. One effort to recognize companies which are committed to toxic use reduction is the Massachusetts Governor's Award for Outstanding Achievements Toxics Use Reduction.

Begun in 1994, the purpose of this award is to recognize and award outstanding achievements in toxic use reduction by individuals, industry, and institutions representing both public and private sectors in Massachusetts. The award is based on the following criteria:

- | | |
|----------------------------|--|
| Reduction Achieved- | reduction achieved in terms of quantity reduced, percent reduction, by-product reduction, or reduction per unit of product. |
| Benefits Achieved- | including economic, environmental, worker, health and safety, and public health. |
| Transferability- | the potential for the strategy or technology you employed to be replicated or adapted in other toxic use reduction projects. |
| Innovation- | describes how your project breaks new ground. |

Entries are reviewed and selected by a panel of representatives from industries, academia, the financial community, the media, and the Awards Committee for the Toxics Use Reduction Advisory Board.

Last year, six firms in Massachusetts were recognized. Among them was Johnson & Johnson, Professional, Inc., located in New Bedford. Johnson & Johnson was recognized for their development of a multi-disciplinary approach to Safety and Environmental Management. Since 1990 the company eliminated approximately 65% of its annual hazardous waste generation by the training employees received on safety and environmental issues. The award were presented at a special ceremony at the State House on May 26, 1994.

If your firm has made substantial gains in toxic use reduction over the past year and you are interested in applying, then now is the time to begin reviewing your company's TUR efforts. Applications for the 1995 Governor's Award will be received in early spring, and application forms should be available through the Buzzards Bay Project TUR Program by late January. Please contact Fred Kalisz or Steve McKenna at (508) 748-3600 for more information.

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Recent Additions to the BBP/TUR library...

The BBP/TUR office has recently received copies of three EPA "Industry Guides To Pollution Prevention" for the following industries:

The Marine Maintenance and Repair Industry

The Automotive Repair Industry

The Fiberglass-Reinforced and Composite Plastics Industry

The contents include: an introduction to the topic area, profiles of the respective industry, methods to initiate assessment, recommendations for waste minimization and pollution prevention, worksheets and listings for additional resources.

These guides, along with other useful pollution prevention publications are available free of charge at the BBP/TUR library. We encourage everyone to make use of these valuable resources

A Reminder...

If you missed any of our recent workshops and would like information and handouts from any of these workshops, please call us at (508) 748-3600. We have copies and will be happy to send these to you!



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National Teleconference on Vapor Degreasing

On May 24 th the BBP/TUR and the Massachusetts Office of Technical Assistance for Toxics Use Reduction (OTA) co-hosted a national teleconference on new regulations pertaining to solvent degreasing operations. The teleconference was presented by the U.S. Environmental Protection Agency and was transmitted via satellite to local down-link sites across the country.

The conference was designed to explain how the new "Maximum Achievable Control Technology" (MACT) regulations will effect degreasing operations using the following six chemicals: methylene chloride, trichlorethylene (TCE), 1,1,1-trichloroethane (TCA), perchloroethylene, chloroform, carbon tetrachloride. Companies using any of these halogenated solvents in any degreasing operations must comply with these new MACT standards, which focus on reducing emissions from these solvents.

This free teleconference was well attended and included an opportunity for phone-in questions to EPA specialists. The BBP/TUR would like to thank everyone who participated in this presentation and we look forward to hosting other EPA teleconferences in the future.

Pollution Prevention Workshop for the Marine Industries

On March 23, the Buzzards Bay Project\ Toxics Use Reduction Program (BBP\TUR) presented a pollution prevention and environmental management workshop for the marina and boatyard industries. The workshop was part of our industry workshop series aimed at assisting local industries meet the environmental challenges facing them today.

This half-day workshop was designed to create an awareness among marina and boatyard managers for the need to adopt environmentally sound management policies in light of present and proposed future state environmental regulations. Jan Smith from the Massachusetts Coastal Zone Management Office unveiled the first draft of the state's Coastal Nonpoint Source Pollution Program, and gave a detailed presentation on how certain aspects of the Program may effect these marine industries.

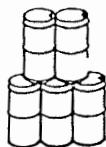
Presentations were also made by representatives from the Massachusetts Department of Fisheries and Wildlife on the Clean Vessel Act Pumpout Project, the United States Coast Guard and the URI Coastal Resource Center. Charlie Swain and Greg Glavin, both local marina operators, shared their own experiences with pollution prevention efforts. The BBP\TUR would like to thank everyone who participated and attended and helped make this workshop a success.

Let Us Know.....

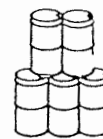
Here at the BBP/TUR we are currently planning our next industry workshop series. Our goal is to focus on industry specific toxic use reduction and pollution prevention issues. If you would like us to address a particular area or a specific industry, please let us know. Our objective is to assist local industries with their toxic use reduction efforts in any way we can. Contact Steve McKenna at the BBP/TUR, 748-3600. Help us help you!

OPTIONS

May
1995



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Star Plating Wins 1995 Governor's Award for Toxics Use Reduction!

The Buzzards Bay Project would like to congratulate Star Plating of New Bedford, Massachusetts for winning the 1995 Governor's Award for Outstanding Achievement in Toxics Use Reduction. Star Plating is one of only five firms state-wide to win this prestigious award.

Star Plating Company employs about 42 people and specializes in barrel plating of steel hardware and stampings. Star Plating operates 24 hours per day, six days per week and plates about 250-300,000 pounds of materials per week for customers from Massachusetts, Connecticut, New Hampshire and Rhode Island.

Star Plating has had an active Environmental Improvement Program since 1988, which has recently focused on toxics use reduction and water conservation.

Since 1988, Star Plating has eliminated the use of all ozone depleting and solvent based chemicals. By consolidating three cyanide plating lines into one, and developing "simulated brass" plating which is non-cyanide based and has been accepted by customers, they have reduced cyanide usage by 39%. They have reduced toxicity of emissions (effluent and metal hydroxide sludge) from Star's wastewater treatment system, and have nearly eliminated the cyanide sludge waste stream. Through an innovative water conservation program they have also reduced water usage by 71% and have reduced the amount of metals in the effluent by 87%.

Star Plating's efforts demonstrate a commitment to achieving toxic use reduction goals while operating a cleaner, safer and more economically competitive business. These efforts serve as an example to everyone working to achieving toxics use reduction.

The BBP/TUR would like to thank all the companies that took the time and applied for the 1995 Governor's Award for Toxics Use Reduction. This type of environmental leadership and recognition is important, and helps these companies serve as an example for other companies working to achieve their TUR goals. We wish everyone the best of luck in the award selection!



Earth Day 95'

Twenty-five years after the original Earth Day, the United States celebrated the twenty-fifth reunion of that historic day with local festivities and events held throughout country. Among these celebrations was New Bedford's own Earth Day 95'. The celebration began with a parade which went through the city and ended up at the waterfront district. A large, brightly colored "Mother Earth" blessed the participants and spectators. The day finished with an environmental exhibit in the YMCA building. Over two-dozen environmental companies, agencies, church and community service groups participated in the event. The Buzzards Bay Project Toxics Use Reduction Program was proud to be involved with this environmental celebration!

Bridge To A Sustainable Future...

The Nation's attention recently was directed to Fall River when Vice-President Al Gore flew in to announce the Administration's new National Environmental Technology Strategy. The announcement was made at Molten Metals, a recycling-research and development facility in Fall River. With the Vice-President on this unprecedented visit were EPA Administrator Carol Browner, Regional Administrator John DeVillars, the president of MIT, and various White House and EPA policy administrators. In comments delivered by the Vice-President he said, "We are committed to promoting a new generation of innovative environmental technologies that will give us a healthier environment, a greater market share for U.S. companies and more jobs for American workers." In addition to his address, two publications "A Bridge to Sustainable Future - National Environmental Technology Strategy", and "Technology for a Sustainable Future - A framework for Action" were presented. Copies of these documents are available through the Buzzards Bay Project/TUR office. This new National Environmental Technology Strategy mirrors the efforts of the TUR program, which is co-sponsored by both the EPA and the Commonwealth of Massachusetts - keeping industry active, viable, environmentally safe and economically successful.

Pit Stops!

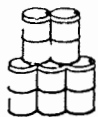
On April 27th the Buzzards Bay Project/Toxics Use Reduction Program and the Massachusetts Office of Technical Assistance (OTA), through the Environmental Protection Agency, presented our latest industry workshop titled "Pit Stops". The workshop was designed to provide both regulatory and pollution prevention information to Massachusetts automotive service facilities, from the largest auto dealerships to garage mechanics operating small independent facilities.

The workshop provided automotive specific regulatory information relating to the Clean Air Act, Massachusetts Hazardous Waste Regulations, Ground Water Protection Regulations and Solid Waste Regulations. In addition, information was presented that emphasized pollution prevention as a viable waste management option for many of the hazardous materials and hazardous wastes associated with the automotive service industry. Participants received a PIT STOPS booklet containing a wealth of resource information on state and federal regulations and agencies pertaining to the automotive industries.

Speakers from the Massachusetts Department of Environmental Protection and the Massachusetts Office of Technical Assistance for Toxics Use Reduction addressed a broad range of environmental issues and regulations specific to the automotive industries. The workshop closed with an informative question and answer session involving all of the speakers.

OPTIONS

June
1995



Buzzards Bay Toxic Use Reduction Program Goal and Mission Statement
To help industrial, institutional and commercial entities reduce the use and discharge of toxic materials to Buzzards Bay and its watershed and further assist them to comply with state and local discharge limits and meet toxic use reduction goals under the commonwealth's Toxic Use Reduction Act.



Local Recognition for TUR Leadership

On June 7th, many local officials gathered at Star Plating's New Bedford plant to celebrate and recognize Star Plating's environmental leadership and Toxics Use Reduction accomplishments. Star Plating recently received statewide recognition for these efforts by winning the 1995 Governor's Award for Toxics Use Reduction. Star Plating Company specializes in the plating of steel hardware and metal stampings. Over 40 full-time people are employed by the company, which operates 24 hours per day, six days per week and services customers in Connecticut, Rhode Island, Massachusetts and New Hampshire.

Since 1988, Star Plating Company has implemented an innovative and comprehensive environmental improvement program. Recent efforts have been directed towards Toxics Use Reduction and water conservation. These efforts have resulted in very significant reductions or the complete elimination of the following toxins used by Star Plating; trichloroethylene, methanol, cyanide compounds and various heavy metals. The water conservation program has reduced water usage by 71% since 1985, and has reduced the amount of metals in the effluent by 87%. These combined efforts have helped Star Plating achieve significant economic savings through reduced chemical purchase costs, waste disposal costs and water and sewage charges.

Frederick M. Kalisz, Jr., Program Coordinator for the Buzzards Bay Project Toxics Use Reduction Program organized the ceremony on behalf of Star Plating. Awards were presented to William D. Roeder, Vice President and General Manager. Dignitaries participating in the awards presentations included Representative Joseph P. McIntyre, Massachusetts House; Mayor Rosemary S. Tierney, City of New Bedford; Councillor Frederick M. Kalisz, Jr., New Bedford City Council and Michael Travers, New Bedford Chamber of Commerce. Steve Hemingway, from Johnson & Johnson, Professional of New Bedford and recipient of the 1994 Governor's Award for Toxics Use Reduction gave a presentation and "passed the torch" to Star Plating Company. The BBP/TUR Program salutes Star Plating's achievements and wishes them continued success as one of New Bedford's environmental leaders.



New Bedford P.O.T.W. Update



Progress continues on New Bedford's new, \$100 million dollar secondary wastewater treatment plant which is now over 85% completed. Officials estimate that the plant could be operational as early as January, 1996. This would complete the project 8 months ahead of schedule and half million dollars under budget.

Emphasis is now on personnel training. Employees of P.S.G., a private company contracted to operate the facility for the first year of operation, and New Bedford Wastewater Division employees have participated in over 150 days of equipment and operations training to prepare them to operate this complex facility.

OTA "Online..."

The Massachusetts Office Of Technical Assistance (OTA) has jumped onto the information highway and is now offering assistance through an on-line, pollution prevention database. They are not yet a site on the Internet, but this free service is accessible through a phone modem by dialing (617) 727-6521. Modem speed ranges from 2400 to 14400 bps, and the settings (8-N-1, ei. 8 bits, no parity, 1 stop bit) are compatible with most communications software. The service is available 24 hours a day, seven days a week.

Current files include OTA Case Studies and Publications, the complete text of the Clean Air Act, OTA VOC program, TANKS 2.0 and other interesting information from OTA about upcoming workshops, conferences, TURP continuing education credits and meetings. If you need more information about this new service, contact Phil Milmoie, (617) 727 3260 ext. 691.



Suggestions...

The Buzzards Bay Project Toxics Use Reduction Program is actively seeking suggestions for improving our assistance related to advancing Toxics Use Reduction efforts among local industry, institutions and public agencies. We encourage you to contact our office (508) 748-3600; or send your ideas to:

Program Coordinator

Buzzards Bay Project

Toxics Use Reduction Program

2 Spring Street

Marion, MA 02738

Recent Additions to the BBP/TUR Library...

The BBP/TUR office has recently received copies of three EPA "Industry Guides To Pollution Prevention":

Pollution Prevention and Toxics Use Reduction Case Studies Compendium

Strategic Waste Minimization Initiative: a software tool to aid in process analysis for pollution prevention

For a copy of these or any of our other pollution prevention publication, please contact Fred Kalisz or Steve McKenna at 748-3600.

OPTIONS

Buzzards Bay Executive Director: Joseph E. Costa, Ph.D.

Program Coordinator: Frederick M. Kalisz, Jr.

Editorial & Technical Assistance: Steve McKenna & Tracy Warncke/BBP



Buzzards Bay Project

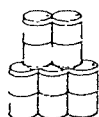
Toxic Use Reduction Program

2 Spring Street

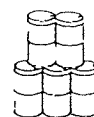
Marion, MA 02738

OPTIONS

August
1995



Buzzards Bay Toxic Use Reduction Program Goal and Mission Statement
To help industrial, institutional and commercial entities reduce the use and discharge of toxic materials to Buzzards Bay and its watershed and further assist them to comply with state and local discharge limits and meet toxic use reduction goals under the commonwealth's Toxic Use Reduction Act.



Toxics Use Reduction Progress

Recently Trudy Coxe, Secretary of the Massachusetts Executive Office of Environmental Affairs, highlighted some of the outstanding progress that has been made by Massachusetts environmental agencies in the top ten priority areas. One of these priorities is the implementation of the Toxics Use Reduction Act (TURA) to encourage new ways of reducing the use of toxic chemicals and generation of toxic byproducts.

Some of these accomplishments are:

- First TURA plans submitted by over 600 businesses.
- First TURA Annual Report released.
- TURA Regulatory Barriers Report identified roadblocks to ease compliance for business
- 3 years of TURA reporting and plan summary data released and trend analysis conducted
- DEP TURA Progress Report completed. Chief finding is that while chemical use is up, waste by-product generation is down. 92% of companies surveyed are planning to implement some form of TUR.
- 495 private Toxic Use Reduction Planners certified
- 344 Office of Technical Assistance (OTA) site visits made. Estimated savings to companies implementing TUR is over \$3 million dollars.
- Science Advisory Board established and 5 chemicals have been recommended for delisting so far.

The Buzzards Bay Project Toxics Use Reduction Program is proud to be part of this state-wide effort to assist companies with their toxics use reduction efforts.



OTA Advisory Board Meeting

On July 18th, 1995 the Massachusetts Office of Technical Assistance for Toxics Use Reduction held their semi-annual Advisory Board meeting to summarize activities of the past six months and to discuss future plans. Rich Bizzozero, Southeast Team Leader, discussed some OTA's recent activities and efforts in the local area. He also summarized the results of an industry survey completed at the last Advisory Board meeting and then gave some insight into the Department of Environmental Protection's reorganization under the new Commissioner, David Struhs. The Buzzards Bay Project Toxics Use Reduction Program is a participating member of this Advisory Board and thanks all of the people who participated in this meeting.

Moakley Center Opening Celebration

On Tuesday, September 5th, 1995 the John Joseph Moakley Center For Technological Applications will officially open. Opening celebrations will continue for a week, with a series of open houses, demonstrations and other activities all designed to introduce this new facility to the Massachusetts college community, local businesses and the public to this impressive resource.

The Center is located on the Bridgewater State College Campus and is a major educational resource for this region and this state. Resources include sophisticated computing equipment, a professional television studio, interactive classrooms and conference areas with modern satellite transmitting and tele-conferencing capabilities. A prime mission of the Moakley Center is to be fully utilized by area businesses and industries as a technological resource to assist their economic development. On Wednesday, September 13, 1995, the Moakley Center is hosting an Economic Development Day. Activities are planned for business leaders, chambers of commerce members, regional planning agency representatives, business associations and will be hosted by the Boston Computer Society and the Moakley Center Business Advisory Council. The BBP/TUR encourages industries to take advantage of this resource.



The Buzzards Bay Project Toxics Use Reduction Program is actively seeking suggestions for improving our assistance related to advancing Toxics Use Reduction efforts among local industry, institutions and public agencies. We encourage you to contact our office (508) 748-3600, or send your ideas to:

Program Coordinator
Buzzards Bay Project
Toxics Use Reduction Program
2 Spring Street
Marion, MA 02738

Recent Additions to the BBP/TUR Library...

The BBP/TUR office has recently received copies of the EPA "Industry Guide To Pollution Prevention: Financing Pollution Prevention Investments: A Guide for Small and Medium-Sized Businesses"

For a copy of this or any of our other pollution prevention publication, please contact Steve McKenna at 748-3600.

OPTIONS

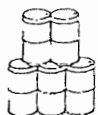
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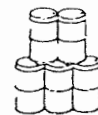
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Marion, MA 02738

OPTIONS

September
1995



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Toxics Use Reduction Matching Grants Program

The Massachusetts Toxics Use Reduction Institute (TURI) has announced it's Industry Matching Grants Program for 1996. TURI is looking for innovative methods, materials and processes that achieve toxics use reduction. Of particular interest are projects that focus on the manufacturing process itself, and which make changes that reduce or eliminate the up-front use of a listed toxic chemical. Projects must be either technology demonstrations or feasibility studies.

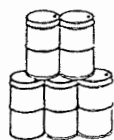
The TURI Matching Grants Program provides dollar for dollar matching funds for toxics use reduction projects. Grants are awarded competitively on an annual basis. In exchange for funding, grant recipients prepare project reports which will be used by TURI as a technology transfer tool, to assist other companies in similar situations.

Projects which will receive preference are those which are either innovative, focus on the manufacturing process itself rather than on waste-water treatment processes, achieve large reductions, reduce highly toxic chemicals or are readily transferable to other companies and industries.

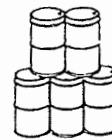
Any industrial or commercial user of TURA listed toxic chemicals is eligible to receive a grant. An eligible company who is the grant recipient may form a consortium with other companies, or work with suppliers, consultants or chemical manufacturers.

Grant funding opportunities are up to \$25,000 for technology demonstrations and up to \$5,000 for feasibility studies. The Institute has budgeted up to \$50,000 for the 1996 fiscal year grants.

The Buzzards Bay Project Toxics Use Reduction Program encourages companies to apply for these grants and can offer assistance in preparing any project proposals or applications. For more information on the TURI Matching Grants Program please contact the Massachusetts Toxics Use Reduction Institute at (508) 934-3275.



OTA "Online...."



The Massachusetts Office Of Technical Assistance (OTA) has jumped onto the information super highway and is now offering assistance through an on-line, pollution prevention database. They are not yet a site on the Internet, but this free service is accessible through a phone modem by dialing (617) 727-6521. Modem speed ranges from 2400 to 14400 bps, and the settings (8-N-1, ei. 8 bits, no parity, 1 stop bit) are compatible with most communications software. The service is available 24 hours a day, seven days a week.

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Take advantage of "Green Lights"

Green Lights is a voluntary, non-regulatory program established by the EPA and is aimed at promoting energy efficiency through investment in energy-saving lighting. The program saves money for businesses and organizations, and it creates a cleaner environment by reducing pollutants released into the atmosphere. By reducing the energy needs of organizations through the installation of energy efficient lighting, Green Lights creates direct savings which can be reinvested. Full implementation by current participants saves over \$800 million annually in electric bills, which translates into 12.2 billion kilowatt-hours of electricity. For more information about this program, please contact Steve McKenna at (508) 748-3600

NPDES and Municipal/Industrial Pretreatment Training.

The New England Water Pollution Control Commission (NEIWPCC), through a grant from EPA New England, will be presenting three, two-day symposiums. These symposiums are designed for federal and state NPDES inspectors, municipal and industrial pretreatment staff and other interested parties. The focus of these symposiums is to familiarize participants with the fundamentals of compliance inspections, present specific information on sampling, lab and flow measurement procedures and provide overall knowledge of the intent and propose of inspections as they relate to regulatory requirements. For more information please contact NEIWPCC at (207) 767-2539.

Fall Toxics Use Reduction Planners Course!

In the fall of 1995, the Toxics Use Reduction Institute (TURI) will offer the Toxics Use Reduction Planner Training course. The course will be offered in one location and consists of 42 hours of core sessions and 6 hours of industry-specific training. The course will meet at the Dedham Holiday Inn on Thursdays from 9am -4pm, starting October 5th. The last day of the course will be the Industry Specific Training, held on Friday, November 17, 1995 from 8:30am - 4pm. Participants who plan to become certified Toxics Use Reduction Planners under the Exam-Track Application Procedure must pass the Department of Environmental Protection (DEP) Certification Examination, to be offered by the DEP at a later date. Prerequisites for sitting for the examination include a Toxics Use Reduction Course certificate of completion and work experience as stated in 310 CMR.

For more information on this course or for an application form, please contact Anne Basanese at TURI (508) 934-3144.

OPTIONS

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Program Coordinator: Frederick M. Kalisz, Jr.

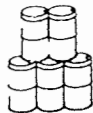
Editorial & Technical Assistance: Steve McKenna & Tracy Warncke/BBP



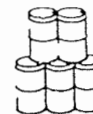
Buzzards Bay Project
Toxic Use Reduction Program
2 Spring Street
Marion, MA 02738

OPTIONS

January
1996



Buzzards Bay Toxic Use Reduction Program Goal and Mission Statement
To help industrial, institutional and commercial entities reduce the use and discharge of toxic materials to Buzzards Bay and its watershed and further assist them to comply with state and local discharge limits and meet toxic use reduction goals under the commonwealth's Toxic Use Reduction Act.



1996 Governor's Award for Toxics Use Reduction

During the past two years many companies and institutions in southeastern Massachusetts have worked aggressively to implement toxic use reduction strategies and to achieve Toxics Use Reduction Goals. One effort to recognize companies which are committed to toxic use reduction is the Massachusetts Governor's Award for Outstanding Achievements in Toxics Use Reduction.

Begun in 1994, the purpose of this award is to recognize and award outstanding achievements in toxic use reduction by individuals, industry and institutions representing both public and private sectors in Massachusetts. The award is based on the following criteria:

- Reduction Achieved-** Reduction achieved in terms of quantity reduced, percent reduction, by-product reduction, or reduction per unit of product.
- Benefits Achieved-** Including economic, environmental, worker health and safety, and public health.
- Transferability-** The potential for the strategy or technology you employed to be replicated or adapted in other toxic use reduction projects.
- Innovation-** Describes how your project breaks new ground.

Any individual or organization demonstrating outstanding examples of Toxics Use Reduction activities in the following categories is eligible to receive an award:

Industry- small (100 or less employees), large (over 100 employees)

Other Private Sector- hospitals, laboratories, consulting firms, individuals

Schools & Academic Institutions- public and private

Public Sector- POTW's, municipal or state agencies, advocacy groups

All entries are reviewed and selected by a panel of representatives from industries, academia, the financial community, the media, and the Awards Committee for the Toxics Use Reduction Advisory Board. The Buzzards Bay Project's Toxics Use Reduction Program can assist you with identification, preparation and presentation of any application. The Project has assisted two local firms, Johnson & Johnson Professional and Star Plating Company, with their successful efforts to win the prestigious award. Contact Fred Kalisz or Steve McKenna at (508) 748-3600, for further information.

Deadline for final submission to the Awards Committee is March 1, 1996.

Spotlight On Success- Previous Local Award Recipients

1994 - Johnson & Johnson Professional

Johnson & Johnson have pioneered a multi-disciplinary approach to safety and environmental management. Since 1990 the company has eliminated over 65% of its annual hazardous waste generation by the training employees received on environmental and safety issues. The company eliminated its sulfuric and nitric acid baths by instituting a state of the art nitrogen based stainless steel heat system which saved approximately \$25,000 a year in acid purchase and disposal costs. It eliminated the use of chlorofluorocarbons, xylene, toluene, 1,1,1-trichloroethylene, acetone and cadmium in its manufacturing process thus saving approximately \$30,000 annually. Many of these changes were developed by hourly employees who participated in company training programs and recognized the need to reduce toxics. The company has a multi-disciplinary approach to safety and environmental management known as the Safety, Ergonomics and Environmental Process. The company applies the process as it looks for better ways to protect workers and the environment while serving its customers.

1995 - Star Plating Company

Star Plating Company, specializing in plating of steel hardware and stampings, has had an active environmental improvement program since 1988. Recent emphasis on toxics use reduction illustrates a comprehensive plan to utilize TUR strategies promoted by the 1989 Toxics Use Reduction Act. Examples on these strategies include:

Input Substitution- replacing trichloroethylene with aqueous based cleaner used in tin infusing.

Product Reformation- developing a non-cyanide "simulated brass" plating which reduced the use of cyanide based brass plating and increased business from customer satisfaction with reduced toxics use.

Production Unit Redesign- consolidating plating lines, and use of liquid cyanide instead of cyanide powder to improve solubility.

Production Unit Modernization- development of custom designed spray rinse technology to reduce water use and wastewater generation.

Improved Operations and Maintenance- reducing generation and disposal of metal hydroxide sludge by 75% by reducing drag-out from plating operations.

Recycling/Reuse- Utilizing of effluent for production rinsing.

Annual savings: \$381,000.

Upcoming Workshop

In March, the Buzzards Bay Project Toxics Use Reduction Program is sponsoring a half-day workshop on wastewater treatment and water conservation techniques for the fish processing industry. The workshop is designed to assist fish processors reduce the amount of water used in their processes and to reduce the amount of organic matter, or BOD, in the wastestream. These efforts will save processors money in reduced sewer and water costs, and also reduce the organic loads entering the new secondary treatment plant and thereby increase its efficiency. Dr. Susan Goldhor, President of the Center for Applied Regional Studies, will be the keynote speaker. The Center focuses exclusively on turning seafood processing wastes and wastewater into saleable products. Dr. Goldhor researches and consults on a broad range of seafood waste management techniques and technologies, including fish protein hydrolysis, fermentation, small scale meal production, composting and wastewater handling. At this time an exact date has not been set. Please contact Steve McKenna at (508) 748-3600 for further information.

GOVERNOR'S AWARD PROGRAM

TOXICS • USE • REDUCTION

March 1, 1996 Deadline

for Outstanding Achievement
in Toxics Use Reduction

Welcome Aboard!

The BBP/TUR Program recently hired Kathryn Latimer as a full time intern. Ms. Latimer is a 1994 graduate of the University of Rhode Island, Marine Affairs and Political Science Programs. She previously worked for an environmental consulting firm as an industrial environmental technician. Ms. Latimer is excited about participating in the BBP/TUR efforts.



New This Spring

Toxics Use Reduction Guide for Industry.

The BBP/TUR is pleased to announce that we are completing a resource directory for manufacturing and commercial businesses which addresses toxics use reduction issues. This guide will enable firms to learn more about the resources and agencies available to assist them. A brief description of services for the following agencies will be included; the Buzzards Bay Project Toxics Use Reduction Program (BBP/TUR), the Massachusetts Office of Technical Assistance for Toxics Use Reduction, the Toxics Use Reduction Institute, the Massachusetts Department of Environmental Protection and the Environmental Protection Agency's Pollution Prevention Division. The Guide will discuss the Toxics Use Reduction Act of 1987, and will explain industry regulations and responsibilities under this legislation. Also included in the Guide is a list of available electronic environmental networking capabilities (EENC), information and criteria on the Governors Award for TUR and the Best conce, and a resource directory that lists all the items available from the BBP office. Please contact the BBP/TUR office for details.



Industry Updates:

NEWMOA

The Northeast States Pollution Prevention Roundtable will Meet on Tuesday, February 27, 1996 from 10:00 am - 3:30 pm at the Sheraton Tara Hotel in Framingham, Massachusetts. The purpose of this meeting will be to discuss follow-up activities on the national report on P2 program evaluation, state involvement in EPA's recent initiatives, organizational and funding changes taking place in the states, and regulatory staff training activities.

THE MASSACHUSETTS TOXICS USE REDUCTION INSTITUTE

The Massachusetts Toxics Use Reductions Institute (TURI) will offer the toxics Use Reduction Planner Training course in the spring of 1996. The course will be offered in Sturbridge, Massachusetts and will consist of 42 hours of core sessions and 6 hours of industry-specific training. The course will be held on Tuesdays, from 9:00am - 4:00pm, beginning on February 6th. Participants are required to attend all sessions. For further information, contact TURI at (508) 934-3050.

MARINE STUDIES CONSORTIUM

The tenth annual Massachusetts Marine Environment Symposium will be held on April 3-4, at the JFK Library in Boston. The symposium will include scientists, environmentalists, private industry officials and policy makers, and will take a close look at how coastal communities around the state have solved various types of water pollution problems. The symposium will also include presentations of the latest scientific research on Massachusetts marine waters, and feature a special debate between journalists and scientists on why these two groups don't always see eye to eye.

OPTIONS

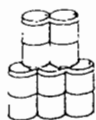
Buzzards Bay Executive Director: Joseph E. Costa, Ph.D.
Program Coordinator: Frederick M. Kalisz, Jr.
Editorial & Technical Assistance: Steve McKenna, Tracy Warncke
& Kathryn Latimer/BBP



Buzzards Bay Project
Toxic Use Reduction Program
2 Spring Street
Marion, MA 02738

OPTIONS

March
1996



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Toxics Use Reduction Institute Developing TUR Options Assessment Tool

The Toxics Use Reduction Institute (TURI) is in the process of developing and testing a decision-making tool for small and medium sized companies designed to assess and compare the environmental, worker and public health impacts of TUR options. This tool will be distributed to companies throughout the state in time for the 1996 TUR planning cycle.

TURI is currently seeking small and medium sized companies that are interested in participating in the development and testing of this TUR options assessment tool. Companies participating in this project will benefit by getting a head-start on the 1996 TUR planning process and will receive assistance from TURI in assessing and ranking TUR options.

Testing of the assessment tool will begin with an initial site visit and meeting between company representatives and TURI representatives to discuss possible TUR options that can serve as the basis for the test and to collect the necessary data for the assessment. In a collaborative process, the TURI representative and the company representative will use the tool to assess and compare TUR options.

For more information about this project, contact Fred Kalisz at the Buzzards Bay Project Toxics Use Reduction Program at 508-934-3275.



OTA "Online...."



The Massachusetts Office of Technical Assistance (OTA) has jumped onto the information super highway and is now offering assistance through an on-line, pollution prevention database. They are not yet a site on the Internet, but this free service is accessible through a phone modem by dialing (617) 727-6521. Modem speed ranges from 2400 to 14400 bps, and the settings (8-N-1, ei. 8 bits, no parity, 1 stop bit) are compatible with most communications software. The service is available 24 hours a day, seven days a week.

Current files include OTA Case Studies and Publications, the complete text of the Clean Air Act, OTA VOC program, TANKS 2.0 and other interesting information from OTA about upcoming workshops, conferences, TURP continuing education credits and meetings. If you need more information about this new service, contact Phil Milmo, (617) 727 3260 ext. 691.

Massachusetts Printers Partnership (MP2)

The Massachusetts Department of Environmental Protection (DEP), the Printing Industries Of New England (PINE), The Executive Office of Environmental Affairs (EOEA), the Office of Technical Assistance, the Screen & Graphic Imaging Association International (SGAI), and the Environmental Protection Agency (EPA) have combined their efforts to create and sponsor the Massachusetts Printers Partnership. This partnership is a unique, cooperative effort to help Massachusetts commercial printers run their businesses in an environmentally sound way and meet DEP requirements. To accomplish this they have created a number of steps, including:

- Self-certification process designed with and for their industry
- A 40-question self-certification statement and a simple workbook which explains and amplifies the questions and answers.
- Allowing for a limited enforcement moratorium covering inspections, the lack of permits and other minor violations.
- Technical assistance to help printers learn how to incorporate cheaper, cleaner and smarter practices while meeting environmental goals.

The Partnership is a cooperative effort and includes private and public sectors. Printers of different sizes and process types including lithographic, screen, flexographic and gravure as well as their trade associations. Regulatory officials from DEP, EPA, the Massachusetts water resources Authority (MWRA) and technical assistance officials from the Massachusetts Office of Technical Assistance for Toxics Use Reduction will represent the public sector.

The DEP has invited the participation of over 1,000 commercial printers across Massachusetts. Nearly all printers (SIC Code 27) are eligible to participate in the MP2. The few exceptions include facilities that are:

- Photoprocessing facilities only; or
- Facilities which are primarily manufacturers who do printing on their products.
- The very largest printers who are categorized as "major sources of air emissions" or "significant industrial users" of the sewer systems, or those required to file Form R and Form reports.

To help printers learn more about this partnership and to apply to this program, the DEP and the OTA will offer workshops and clinics to explain program requirements, pollution prevention opportunities and sound environmental practices. The next local workshop, which explains the features of the program, its unique advantages, how new regulations work and how to become a Partner, will be held on April 4th, at the Marlborough Holiday Inn, from 8:30 AM - 12:30 PM. The next clinic, designed as a one-on-one assistance in performing or checking calculations, estimating emissions, discussing P2 options or regulatory questions, will be held on March 13th, at the Taunton Holiday Inn, from 7:30 AM - 10:30 AM.

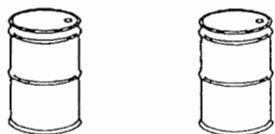
For more information, contact Fred Kalisz or Steve McKenna at (508) 748-3600.

Local Legislators Address Automotive Facility Operators

On March 7th, New Bedford legislators were hosted by Pinto's Automotive to meet with the New Bedford area automotive association in an effort to address pending environmental legislation. The Buzzards Bay Project Toxics Use Reduction Program participated in this forum by distributing information about pollution prevention and environmentally sound shop management practices. This effort is a continuation of the Pit Stops Program, a program designed specifically for automotive facilities. Many in the industry feel that the pending legislation is unnecessary and will negatively impact automotive facilities. The meeting provided an opportunity for owners to voice their opinion and offer other ideas to the legislators. The BBP/TUR has worked with area automotive facilities and is available to assist any other facilities with pollution prevention and toxics use reduction issues. For more information, contact Steve McKenna or Fred Kalisz at 748-3600.

Envirotechnology Center

The Massachusetts State Legislature recently approved funding for the Massachusetts Military Reservation Environmental Technology Center, which will provide test site access for innovative monitoring, measurement and remediation technology developers to generate performance data to hasten regulatory acceptance and commercialization. In addition, the venture should provide jobs, education and job training for businesses and residents throughout the state. A business plan for the center is expected by March 1, and a feasibility study will follow in the summer. Call Carol Kilbride at 800-575-CEIT for more information.



EPA Internet Access Increased

The U.S. EPA has expanded public access to information on the releases of oil and hazardous substances. This data from the Emergency Response Notification System (ERNS) is available at no charge through the Internet. ERNS data can be accessed through EPA's Gopher server, World Wide Web server and FTP server. With a desktop computer, a modem and entrance to the internet, can be obtained in minutes. The following internet addresses provide access to these servers: EPA World Wide Web Server <http://www.epa.gov/ERNS>; EPA Gopher Server- <gopher.epa.gov>; <ftp.epa.gov/gov/pub/gopher/ERNS>.

The ERNS database is the most comprehensive source of notifications of oil discharges and hazardous substances releases in the United States. ERNS is supported by the cooperative data sharing effort of EPA, the Department of Transportation and the National Response Center. Since 1986, more than 300,000 release notifications have been recorded in ERNS. For additional information concerning this topic, please contact the Emergency Response Division at 202-260-2342.

Let Us Know.....

Here at the BBP/TUR we are currently planning our next industry workshop series. Our goal is to focus on industry specific toxic use reduction and pollution prevention issues. If you would like us to address a particular area or a specific industry, please let us know. Our objective is to assist local industries with their toxic use reduction efforts in any way we can. Contact Steve McKenna at the BBP/TUR, 748-3600. Help us help you!



Electronic Environmental Resources

The National Technology Transfer Center (NTTC) has announced the creation of "Business Gold", an electronic bulletin board system. The system provides users a convenient way to access the latest information on the newest technologies available through the research and development programs of federal government laboratories. Anyone with a computer, modem, and communications software can connect and search a wealth of information through a user-friendly interface. Some of the information available includes:



- *Directory of Federal Laboratory Resources
- *Technology Transfer Conference Calendar
- *State Technical Assistance Programs
- *Regional Technology Transfer Centers
- *New Technologies Available for Licensing
- *Searchable Databases



All information on the system is free and can be downloaded to your own computer. For more information about the FREE gateway service, contact Gateway Service at (800) 678-6882.

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The Buzzards Bay Project has recently received two CD-ROMS, both about sustainable environmental technologies.

"Bridge to A Sustainable Future: The Government" is comprised of 150 text documents, a guide to associations and technology of environmental technologies; 30 videos, illustrating the application of environmental technologies; and much more.

"Technology for A Sustainable Future: The Industry" features profiles of major American companies in the environmental technology field. Each profile provides detailed information on the products and services these companies offer. A database with information on over 1,200 environmental companies, and which companies are advancing which technologies. Both CDs are fully searchable using keywords. For more information and to get a copy of either of these CDs, contact Steve McKenna at 508-748-3600.

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