POLLUTION PREVENTION
FACULTY AND PROGRAMS:
CONTINUING EDUCATION
Consumnes River College offers an Environmental Technology Program which is designed to provide training for entry-level technicians who will be involved with environmental protection, regulatory compliance and workplace safety and health applications. Graduates may be employed by business and governmental agencies that require a knowledge of hazardous materials handling practices, techniques for the storage, treatment, transport and disposal of hazardous materials, and a basic understanding of the chemical and biological phenomena which underlie the regulation of hazardous material operation. Courses include Hazardous Materials Awareness and Safety, Air Quality Issues, Hazardous Waste Management Applications, and Work Experience in Environmental Technology. For more information, visit WWW site at http://tlc.crc.losrios.cc.ca.us/academic/sci_area/envtech/envtmain.htm. For more information on people involved with the Environmental Technology Program, see record number 133 (Buechner).

Each year, the Environmental Technology Program at Bakersfield College offers a 3 credit course Waste Generation, Reduction, and Treatment that emphasizes pollution prevention issues. Worked with the Partnership for Environmental Technology Education (PETE) on a NSF funded project to develop print materials and videos to use in the Environmental Technology Program. To date, the network has developed four videos on pollution prevention and a book on pollution prevention and waste management.

Teaches Environmental Technology and Biology. The Environmental Technology program at Consumnes River College is designed to provide training for entry-level technicians who will be involved with environmental protection, regulatory compliance and workplace safety and health applications. Graduates may be employed by business and governmental agencies that require a knowledge of hazardous materials handling practices, techniques for the storage, treatment, transport and disposal of hazardous materials, and a basic understanding of the chemical and biological phenomena which underlie the regulation of hazardous material operation. Courses include Hazardous Materials Awareness and Safety, Air Quality Issues, Hazardous Waste Management Applications, and Work Experience in Environmental Technology. For more information on people involved with the Environmental Technology Program, see record number 129 (Baker).
Recognizing the need to integrate pollution prevention and other environmental essentials into worker education efforts, the Florida Department of Environmental Protection collaborated with the Florida Community college System to organize the Florida Community College Consortium for Pollution Prevention Education. The 28 Community colleges in Florida educate over 800,000 students each year, with many of them becoming industrial workers in highly polluting industries. The goal of the Consortium is to go to the source of the problem, the people who choose to pollute or not to pollute, and educate them on the regulatory requirements and pollution prevention opportunities. With this cooperative Pollution Prevention Partnership, real progress can be made in avoiding wastes to all media, while saving money. For more information on the Consortium Pollution Prevention Education Center, located at Brevard Community College Teaching and Research Labs, visit WWW site at http://www.brevard.cc.fl.us/BTR_Labs/fc3p2e.

Involved in the Environmental Technology Certificate Program and Contract Education Program at Napa Valley Community College. Also represents the entire California Community College program through the California Community College Economic Development Network (EDNET). Dr. Della Valle has 23 years of experience in engineering geology, aqueous geochemistry, physical chemistry, sedimentology, hydrology and curriculum development in environmental technology. He has conducted and managed research and educational programs for radiological waste disposal, vadose zone modeling, aqueous transport of metals and chemical speciation, adsorption and fixation reactions. Dr. Della Valle has participated in the planning, design and supervision of hazardous materials and hazardous waste management programs that included industrial waste water treatment facilities, plating shops, metal cleaning facilities, electronic shops, hazardous waste landfills and ground water monitoring programs. He has managed multi-million dollar projects in remediation, research and education. For more information on Napa Valley Community College’s Environmental Technology Program, visit WWW site at http://nvc.cc.ca.us/et/.

Offers an associate degree and certification program in environmental management of the industrial sector. Courses include: regulations, hazardous materials, waste management, soil resources, environmental chemistry, industrial safety, waste minimization, control processes, and environmental management.
Fullerton College's Environmental Technology Certificate and Associate Degree program is one of 28 articulated programs within the California Community College System. Industrial Waste Stream Generation/Reduction/Treatment, is one class that takes students through 6-8 regional industries, with a central focus on waste minimization activities that are successful within that industry. The remaining courses within the program include toxicology, basics of industrial hygiene, safety and emergency response, site characterization, sampling and analysis, regulations and an introductory course that presents an overview of the program. These courses are over a foundation of required classes requiring one semester of chemistry, biology, environmental science and a communication skills class. The students completing this program are serving in various industry capacities, often becoming the environmental health and safety person for small-medium sized companies. For more information on people involved with the Environmental Technology Program, see record number 42 (Powers).

The Community College Consortium for Pollution Prevention Education currently includes 23 of Florida's 28 community colleges, as well as representatives from government and industry. The Consortium was created to develop educational materials, as well as for the training and dissemination of these materials. The curricula are designed to help industry with understanding regulations as well as prevention efforts to prevent possible non-compliance fines. The multimedia course materials are distributed through worker training courses and through degree programs.

Vermillion Community College offers Associate Degree programs in Water Resources, Pollution Control, Hydrology and Waste Management. The College, in conjunction with Bermdiji State, offers a BS degree program in Environmental Studies and Waste Management.
The Environmental Technology program is designed to train technicians for work in the environmental field. The purpose of the program is to provide trained personnel to meet the growing demand for workers in business and industry to comply with the environmentally-related regulations. Nationwide studies indicate that the demand for trained hazardous materials technicians will continue to grow throughout the next fifteen to twenty years. In establishing this program, Hartnell College will become one of twenty-three California community colleges offering an Environmental Technology program. Courses in the program include: Introduction to Environmental Technology, Hazardous Waste Management Application, and Waste Stream Generation/Reduction/Treatment.

Irvine Valley College offers an AA degree and occupational certificate in Environmental Technology. The curriculum in Environmental Hazardous Materials Technology is designed to provide students with the knowledge and skills that will allow them to work with hazardous wastes in compliance with governmental regulations while at the same time protecting human health and environment. Courses include Hazardous Waste Generation, Reduction and Treatment, and Hazardous Materials Management Applications.

Administering grant to instruct students across college on importance of pollution prevention. Also developing curriculum for Environmental Technician students.

The Environmental Technology Program at City College of San Francisco offers a Certificate (35 units) and Associate Degree (65 units) in Environmental Technology. Pollution Prevention is an important component of the instruction in Environmental Technology. The emphasis in course ET 112: Waste Generation, Reduction and Treatment is on pollution prevention. The students, as a part of their course, have to assist a local industry or business in their pollution prevention activities.
DR. KENNETH ZION
Director, Environmental Technology Department
El Camino College
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The Environmental Technology curriculum provides training in environmental hazardous materials handling and regulatory compliance. A Certificate and an Associate Science Degree are offered. An emphasis is placed on preparing students for gainful employment as environmental technicians within several industrial areas including: electroplating, metal finishing, printed circuit board production, oil refining and chemical production, steel production, general manufacturing, printing and graphics reproduction, agriculture processes and consumer services industry.

MR. JOHN ATKINSON
College of Engineering, Engineering Extension
University of Missouri—Columbia
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Columbia, MO  65211
Phone:  (314) 882-8880 or (800) 776-1044
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E-mail:  atkinj2@rpi.edu.internet

Teaches a two day course, Pollution Prevention—Compliance, Planning, and Profiting. It is a seminar/lecture and workshop. Provides a method of implementing a proactive P2 program stressing human, business, and financial solutions to organizational and cultural barriers.

MS. KRISTINE BENSON
Deputy Director, Alaska Health Project
Waste Reduction Assistance Program
1818 West Northern Sights, Suite 103
Anchorage, AK  99517
Phone:  (907) 276-2864
Fax:  (907) 279-3089

Teaches waste reduction and P2 concepts, regulations, health and safety, and waste disposal in senior level environmental health course. The course is open to all disciplines. The course materials are available nationally. The course uses audio-visuals. Ms. Benson has developed several manuals to assist and educate local businesses and industry on waste management and planning for the future. The project is funded by various in-state agencies.
147  **DR. CLARI Binder**  
Environmental Health Services  
University of California—Santa Barbara  
120 Cremona Drive #C  
Goleta, CA  93117-3075  

Phone:  (805) 681-5200  
Fax:  (805) 681-5370  

Trains employees to become registered environmental health specialists. These specialists are qualified to be environmental enforcement inspectors. Uses site visits and videos to demonstrate the complexity of waste inspection and P2.

148  **DR. Richard Bright**  
Education and Training  
Clark Atlanta University  
Atlanta, GA  30314  

Phone:  (404) 880-8515  
Fax:  (404) 880-8522  

Director of a K-12 teacher training program which focuses on P2 and environmental science concepts. The program emphasizes science education for K-12 educators to better prepare students for college and P2 issues. Field trips are part of the curriculum. CEPER and Department of Energy funded.

149  **DR. Ralph Cooper**  
Instructor, American Institute of Hazardous Materials Management  
14307 Fox Fire Lane  
San Antonio, TX  78231  

Phone:  (210) 492-2162  
Fax:  (210) 408-1563  
E-mail:  cooper@i-link.net  

Teaches pollution prevention continuing education courses on the following topics: Managing Hazardous Waste Liability and RCRA Compliance; Pollution Prevention and Waste Minimization - A Course for Managers; Managing Hazardous Chemicals in Laboratories; Environmental Regulation - 40 CFR and More; Planning for Prevention, and Responding to Chemical Emergencies; plus various HazWOPER courses.

150  **MR. Patrick D. Eagan**  
Program Director, Engineering Professional Development  
University of Wisconsin-Madison  
432 North Lake Street  
Madison, WI  53706  

Phone:  (608) 263-7429  
Fax:  (608) 263-3160  
E-mail:  eagan@engr.wisc.edu  

Teaches Design for Environment (DfE), industrial ecology, and remediation courses to professionals nationally. Incorporates inplant environmental awareness and DfE into courses and research.
DR. CHERI EIR  
Toxics Program  
University of California—Berkeley  
2180 Milvia Street, Suite 308  
Berkeley, CA  94704  

Phone: (510) 644-7719  
Fax: (510) 644-6015  

Runs an internship program where interns study and audit waste streams. Currently works to enforce, through routine inspection/enforcement programs, an ordinance requiring acceptable P2 plans from generators. Trains hazardous material specialists to carry out the program.

DR. WILLIAM T. ENGEL  
Director, Center for Training, Research and Education for Environmental Occupations  
University of Florida  
3900 S.W. 63rd Boulevard  
Gainsville, FL  32608-3848  

Phone: (352) 392-9570  
Fax: (352) 392-6910  
E-mail: treeo@nersp.nerdc.ufl.edu  

The University of Florida Center for Training, Research and Education for Environmental Occupations (UF/TREEO) provides educational training for environmental professionals to remain technically current in such areas as: air quality, asbestos abatement, backflow prevention, groundwater, hazardous materials/waste, health and safety, lead abatement, solid waste, stormwater management, water quality and more. For more than 20 years, UF/TREEO has maintained its reputation as a premier environmental training center by developing quality courses on an as-needed basis, as well as offering some courses on-site. For more information, visit WWW site at http://nersp.nerdc.ufl.edu/~treeo/.

DR. RONALD A. ERCHUL  
Professor, Department of Civil and Environmental Engineering  
Virginia Military Institute  
Lexington, VA  24450-0304  

Phone: (540) 464-7331  
Fax: (540) 464-7618  
E-mail: erchul@vmi.edu  

Dr. Ronald Erchul, PE, CPG, is the coordinator of the annual Environment Virginia Symposium. This conference stresses environmental management and pollution prevention. Its goal is to exchange information and technology transfer between the private and public sectors of Virginia. The conference, which attracts approximately 500 attendees each year, is held on the Virginia Military Institute campus in Lexington, Virginia.

DR. BURNS E. HEGLER  
Director, Industrial Assessment Center  
The University of Missouri—Rolla  
313 Engineering Research Lab  
Rolla, MO  65409-0710  

Phone: (573) 341-4718  
Fax: (573) 341-6579  
E-mail: hegler@ee.umr.edu  

Dr. Hegler is Emeritus Professor of Electrical Engineering and Director of the Industrial Assessment Center (IAC) at the University of Missouri-Rolla where he is engaged in extension activities involving conferences, short courses, funded grants/contracts, and technical assistance to business and industry. He advises transfer students in Electrical Engineering. Since the establishment of the IAC in 1989, he has conducted over 175 industrial assessments. Has also conducted audits in energy and safety for other commercial and/or govern-
ment activities. He has written and/or presented over 90 papers and has conducted over 85 short courses and conferences in his areas of interest, which include general industrial safety, electrical circuits, and energy management. His most recent papers are concerned with energy and waste reduction.

155  **DR. JOEL S. HIRSCHHORN**  
Hirschhorn & Associates  
4221 Forbes Blvd., Suite 240  
Lanham, MD 20706-4325  
**Phone:** (301) 731-4095  
**Fax:** (301) 731-4099

Has designed and presented many P2 lectures, seminars, and workshops in the U.S. and developing countries. Materials designed and used are specific to particular audiences, including industrial engineers and managers, government managers, and academics. Foreign programs have been given in Indonesia, Egypt, Morocco, Poland, Latvia, Mexico and the Phillipines.

156  **MR. MITCHELL L. KENNEDY**  
Adjunct Faculty, Massachusetts Toxics Use Reduction Institute  
The Pollution Prevention Cooperative  
67 Maplewood Ave.  
West Hartford, CT 06119  
**Phone:** (860) 231-7151  
**E-mail:** cdØØØ183@interramp.com

Professional trainer of federal, state and university staff on the use and development of pollution prevention tools, such as total cost assessment, process mapping, opportunity assessment and selection. Is an Adjunct Faculty for the Massachusetts Toxics Use Reduction Institute (TURI) Planner Certification Course. Currently developing small business and tribal training curricula on the economics of pollution prevention in pre-development planning. For more information on people involved with TURI, see record numbers 116 (Becker), 121 (Hensley) and 125 (Luskin).

157  **DR. JON W. KINDSCHY**  
Director, Natural Science Program  
University of California—Riverside Extension  
1200 University Avenue  
Riverside, CA 92507  
**Phone:** (909) 787-5804  
**Fax:** (909) 787-2456  
**E-mail:** jonk@ucx.ucr.edu

University of California—Riverside Extension currently offers Pollution Prevention and Waste Minimization as a required course in the Certificate in Hazardous Materials Management program. A one day seminar on pollution prevention was held in 1995 and 1996. UCR Extension has held P2 and compliance workshops for facility managers, small business owners and managers, and P2 for auto repair shops. Dr. Kindschy aided in the development of the Zero Waste program (with funds from Cal EPA DTSC), which is currently being implemented by San Bernardino and Riverside counties.
The Environmental Management Institute trains industrial and government employees in the handling of hazardous chemicals. The Institute maintains a strong emphasis on pollution prevention as opposed to pollution control techniques. The Institute has developed and presented a series of twelve one-day courses on the pollution prevention opportunities in various industrial processes for the Indiana Department of Environmental Management, and has been a key player in developing the Indiana Pollution Prevention measurement index. Dr. Leonard served as an editor for the Institute of Hazardous Materials Management Manual and Study Guide, where he incorporated pollution prevention concepts and principles into every aspect of the manual.

The center develops and conducts educational programs to communicate the need for P2 and its costs/benefits. Targeted audiences are business managers, industrial facility managers, government officials, engineering consultants, and extension agents. The courses emphasize practical approaches to P2. The Center draws experts from industries, trade organizations, equipment suppliers, relevant government agencies, etc. to assist in their educational efforts.

Since 1972, Mr. Meenahan has taught a 2 day/16 hour course, Industrial Waste Treatment Plant Operator Training Course, to refresh hazardous waste operators preparing to take the state haulers exam. The course is sponsored by ESD—The Engineering Society, a technical society which sponsors conferences and workshops on various topics, including environmental issues and pollution prevention. Mr. Meenahan has also presented various pollution prevention workshops and conferences through The Engineering Society. He also teaches Waste Minimization/Pollution Prevention at Wayne State University as an adjunct professor.

The University of Missouri-Columbia’s Energy Systems and Resources Program offers a 3-credit hour graduate course for secondary science teachers on the environmental aspects of energy supply and demand. This
two-week intensive course will be offered for the first time during the summer 1994 semester and is funded by Union Electric Company (St. Louis, Missouri) and the University of Missouri. Environmental implications of the complete fuel cycle of existing energy technologies and future energy sources will be reviewed. Evening sessions will focus on the societal implications of energy use and policy in relation to the environment.

162 **MR. WAYNE PFERDEHIRT**  
Solid and Hazardous Waste Education Center  
University of Wisconsin—Extension  
610 Langdon St. Room 529  
Madison, WI 53703  

Mr. Wayne Pferdehirt, PE, AICP, provides training and technical assistance to manufacturers in prevention and improved management of waste products. Co-Director of Printers' National Environmental Assistance Center. Directs continuing education courses in the design of collection systems for recyclables and solid wastes, and material recovery facilities to process recyclables. Solid and Hazardous Waste Education Center (SHWEC) develops and conducts educational programs to communicate the need for P2 and its cost/benefit analysis. Targeted audiences are business managers, facility managers, government officials, engineering consultants, and extension agents. The courses use a hands-on format. The Center draws experts from industries, trade organizations, equipment suppliers, relevant government agencies, etc. to assist in their educational efforts.

163 **DR. CHARLES L. RICHARDSON**  
Executive Director, National Environmental Training Association  
Arizona State University  
2930 E. Camelback Road, Suite 185  
Phoenix, AZ 85016-4412  

The National Environmental Training Association offers specialized training, materials development, and distribution of information. The Association is currently developing a certification program for pollution prevention professionals to be administered by Arizona State University. For more information, visit WWW site at http://www.envirotraining.org.

164 **DR. PAUL STILL**  
Florida Center for Solid and Hazardous Waste Management  
University of Florida  
2207 NW 13th St. Suite D  
Gainsville, FL 32609  

Teaches short courses (1-2 days) on waste management and regulation with an introduction to P2. Is an operator for the Florida Recycling Marketing System (FRMS), an electronic bulletin board accessed via modem, with information about waste exchange, recycling, composting, and waste reduction. The toll free number for modem access is (800) 384-1239.
165  **MS. DONNA TOY-CHEN**  
Hazardous and Toxic Materials Office  
City of Los Angeles  
201 N. Figueroa Street  
Suite 200  
Los Angeles, CA 90012  

Teaches a P2 and technologies course (with field trips) at University of California Extension, Riverside. 
Teaches a P2 on-line course for University of California Extension, Berkeley. Students are taught to recognize and implement waste minimization and P2 technologies. Conducts P2 training for Los Angeles businesses through the Hazardous and Toxic Materials (HTM) Office. The HTM Office also provides evaluation of industrial processes, waste stream analysis, and regulatory assistance to businesses and manufacturers upon request.

166  **DR. C. H. J. VAN OIJEN**  
Secretariat, European Postgraduate Course in Environmental Management  
University of Amsterdam  
Nieuwe Prinsengracht 130  
Amsterdam, NETHERLANDS 1018 VZ  

The European Postgraduate Course in Environmental Management (EPCEM) is a one year full-time course for recent college graduates. During the course, attention is given to both environmental policy (local, regional, national and international governments) and to environmental management in companies, including pollution prevention. During the practical part of the course, one of the research projects usually focuses on pollution prevention in companies.

167  **MS. DIANE WOLCOTT**  
Environmental Management  
University of California—Berkeley  
2223 Fulton Street  
Berkeley, CA 94720  

The University of California Berkeley Extension offers many courses in environmental management. The courses address the technical aspects of pollution control and the regulation of toxic contaminants and are taught by local professionals. The topics are covered quantitatively. Case studies are used to illustrate techniques for pollution control and P2, hazardous materials management, site remediation, air quality management, and environmental auditing.

168  **DR. BRYAN ZETLEN**  
Seattle Scientific  
Central Washington University  
2606 NW 91 Street  
Seattle, WA 98117  

Has organized numerous technical seminars using local business and government professionals as speakers. Uses a role-playing format to illustrate real world issues. Teaches students about business protocol and how it may be used effectively to implement pollution prevention. General consulting to industry and govern-
ment on telecommunications and environmental issues, including economics. Author of Washington State Department of Ecology Hazardous Materials Response Study and numerous other articles for Daily Trade Journal, Alaskan Fisherman’s Journal, and other professional journals.

**TECHNICAL ASSISTANCE**

169 **DR. PHILLIP (JACK) ANNIS**  
Waste Reduction Specialist, Solid and Hazardous Waste Education Center  
University of Wisconsin—Milwaukee  
Phone: (414) 227-3371  
Fax: (414) 227-3165  
161 West Wisconsin Avenue, Suite 6000  
Milwaukee, WI 53203

The Solid and Hazardous Waste Education Center develops multi-media pollution prevention curriculum and programs for delivery to manufacturers, small businesses, and local governments. The Center also provides technical assistance through on-site pollution prevention audits and telephone consultation.

170 **MR. ADE BABATUNDE**  
Minnesota Office of Environmental Assistance  
520 Lafayette Road  
2nd Floor  
St. Paul, MN 55155-4100

The Minnesota Office of Environmental Assistance assists Minnesota businesses in identifying and implementing options to prevent waste generation and manage waste properly. Conducts workshops and seminars on various pollution prevention and waste management. Review grant proposals from persons researching, developing and implementing projects or practices in the areas of pollution prevention, waste reduction, source separation and recycling, market development, and waste education.

171 **DR. DOUG A. BRIGHT**  
Faculty, Applied Research Division  
Royal Roads University  
2005 Sooke Road  
Victoria, British Columbia  
CANADA V9B 5Y2

Royal Roads University offers short courses and customized on-site training in environmental management systems, including Pollution Prevention. The Applied Research Division — with nearly equal representation by environmental chemists and environmental biologists — is involved in environmental research, education and consulting activities in the areas of environmental assessment, environmental management, and specialized research. The Division is designed to be extremely flexible and entrepreneurial so that it can rapidly respond to the individual needs of clients from all sectors. For more information, visit WWW site at http://www.royalroads.ca/ or send an e-mail to applied-research@royalroads.ca.
DR. ED COHEN-ROSENTHAL  
Director, Work and Environment Initiative  
Cornell University  
Center for the Environment  
105 Rice Hall  
Ithaca, NY 14853  

Activities of the Work and Environment Initiative include: (1) research and programmatic support of an ecological industrial park in Baltimore, MD; (2) labor-management cooperation; (3) high performance workplace training; (4) marketing, regulatory, and financial research. For more information, visit WWW site at http://www.cfe.cornell.edu. For more information on people involved with the Work and Environment Initiative, see record numbers 175 (McGalliard) and 176 (Palumbo).

DR. RICHARD C. COLLINS  
Director, Institute for Environmental Negotiation  
Lawrence Lewis Professor of Urban and Environmental Planning  
University of Virginia  
164 Rugby Road - Peyton House  
Charlottesville, VA 22904-2481  

The Institute for Environmental Negotiation (IEN) has had contracts for facilitating new state regulations that are aimed at pollution prevention in toxics and in waste tires. The IEN has also done special reports on specific industries in Virginia that are particularly suitable for P2 initiatives. Dr. Collins teaches a course in Environmental Policy which highlights P2 initiatives.

DR. SHERRY J. DAVIS  
Industrial P2 Specialist, Pollution Prevention Institute  
Kansas State University  
133 Ward Hall  
Manhattan, KS 66506-2508  

The Pollution Prevention Institute provides technical assistance through the Engineering Extension office of Kansas State University. The Institute provides fact sheets and case studies, and conducts workshops to help local businesses. The Institute also works with special groups to prepare pollution prevention and recycling educational and general awareness presentations. For more information on people involved with the Pollution Prevention Institute, see record number 127 (Meyer).

DR. TAD McGALLIARD  
Research Associate, Work and Environment Initiative  
Cornell University  
Center for the Environment  
105 Rice Hall  
Ithaca, NY 14853  

Activities of the Work and Environment Initiative include: (1) Research and programmatic support of an ecological industrial park in Baltimore, MD; (2) Labor-management cooperation; (3) high performance workplace training; (4) marketing, regulatory, and financial research. For more information, visit WWW site at http://www.cfe.cornell.edu. For more information on people involved with the Work and Environment Initiative, see record numbers 175 (McGalliard) and 176 (Palumbo).
workplace training; (4) marketing, regulatory, and financial research. For more information visit WWW site at http://www.cfe.cornell.edu. For more information on people involved with the Work and Environment Initiative, see record numbers 172 (Cohen-Rosenthal) and 176 (Palumbo).

176  DR. MICHAEL PALUMBO
Site Manager, Work and Environment Initiative
Cornell University
Baltimore Development Corporation
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Baltimore, MD  20007
Phone:  (410) 837-9310  x308
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Activities of the Work and Environment Initiative include: (1) Research and programmatic support of an ecological industrial park in Baltimore, MD; (2) Labor-management cooperation; (3) high performance workplace training; (4) marketing, regulatory, and financial research. For more information, visit WWW site at http://www.cfe.cornell.edu. For more information on people involved with the Work and Environment Initiative, see record numbers 172 (Cohen-Rosenthal) and 175 (McGalliard).

177  MS. SUSAN SALTERBERG
Coordinator, By-Product and Waste Search Service
University of Northern Iowa
Iowa Waste Reduction Center
75 Biology Research Complex
Cedar Falls, IA  50614-0185
Phone:  (319) 273-2079
Fax:  (319) 273-2926

The By-Product and Waste Search Service actively promotes reuse and recycling of Iowa business and industry by-products and wastes. Regional representatives, located at community colleges, councils of governments, and a solid waste agency, meet with business people to identify waste streams, facilitate transfer of those materials to companies for reuse or recycling, and divert wastes from disposal sites. Since 1990, more than 1,414 transfers of materials have occurred. More than 131,000 tons of materials have been diverted from disposal sites, saving businesses approximately $3.2 million in disposal costs alone.

178  DR. KENNETH J. SAULTER
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Ann Arbor, MI  48106
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E-mail: kjs@iti.org

Developing assessment tool methodology for technical assistance providers working with small and medium size manufacturers. Developing training curriculum and materials for field engineer training. Focus is on integrating pollution prevention, waste reduction and general environmental awareness into standard manufacturing continuous improvement assessments and assistance services. Typically works with industry specific groups and encourages technology demonstration projects of technologies and practices suitable for small- to medium-sized manufacturers.
MR. RANDALL F. SHANK
Chesapeake Bay Educational Coordinator, Virginia Cooperative Extension
Virginia Polytechnic Institute & State University
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The Virginia Cooperative Extension is a product of cooperation among local, state, and federal governments. It operates 107 county/city offices so that we are close to all the people of the Commonwealth. The Extension educators are local agent faculty and campus faculty, who take knowledge from the Virginia State and Virginia Tech land-grant universities, and their nationwide sister institutions to everyday people with everyday problems. Mr. Shank is the Educational Coordinator for Chesapeake Bay. He conducts educational programming and coordination for farmers, landowners, and land managers on nonpoint source pollution prevention through Virginia Tech. The programs are focused in the Chesapeake Bay watershed. For more information about the Virginia Cooperative Extension, visit WWW site at http://www.ext.vt.edu/aboutvce.html.

DR. SUSAN M. SMITH
Director, Center for Improving Mountain Living
Western Carolina University
Cullowhee, NC 28723
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Fax: (704) 227-7422

Activities of the Center for Improving Mountain Living include (1) P2 assistance to local business/industry, (2) organization of recycling programs, (3) market development, and (4) proper land use. The Center counsels the service industry (tourism, for example) on using legislation to leverage environmental improvements. Also instructs high school teachers, purchasing agents, photography businesses, and others on playing a role in P2 to keep the environment clean. The Center is funded by a variety of state sources and private foundations.

MR. TRAVIS WALTON
Director, Technology Extension Service
University of Maryland
College of Engineering
College Park, MD 20742
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Fax: (301) 403-4105
E-mail: trav_walton@umail.umd.edu

The Technology Extension Services (TES), through its five field offices in Maryland, provides on-site engineering assistance to manufacturers. This assistance includes analyzing plant and process environmental issues in all media and determining practical solutions. Activities include P2 and waste minimization assistance and workshops. In addition to its own field engineers, TES is supported by faculty and staff of the College of Engineering and other university elements. For technical P2 matters contact Paul Gietka, Northern Regional Office (410-706-3233 or pg26@umail.umd.edu). For P2 related policies and programs of the TES, contact Mr. Walton.

MS. CATHERINE ZEMAN
Program Manager, Environmental Programs
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Assists in the development of curriculum modules for technical schools. Modules deal with focused pollution prevention topics and industry sectors.