



Recycling marketing cooperatives: a proven delivery system for training

by Sherry Swint
NETCSC Contributing Writer

Editor's Note: Sherry Swint is a program manager with the Center for Economic Options, a non-profit organization that assists in the development of sustainable microenterprises. She may be reached at 601 Delaware Avenue, Charleston, WV 25314; (304) 345-1298; or swint@ibm.net.

Recycling marketing cooperatives have a well-established system for training. This is because their memberships often bring different levels of skills as well as a wide variety of needs to the cooperative. As a result, cooperatives typically offer training and technical assistance as regular services to their members.

Recycling marketing cooperatives are simply what their name implies—cooperatives whose services are directed toward the combined marketing purposes of its members. In recycling, the opportunity to pool recyclables provides cooperatives more negotiating power for a better price for their members' commodities based on economies of scale, a steady stream of materials, and other competitive advantages. This is especially important to small and rural communities whose small stream of recyclables are often overlooked or given low prices by processors.

Three recycling cooperatives that have made great strides in bringing training and education to their memberships are the multi-state Southwest Public Recycling Association (SPRA), the Central Texas Recycling Cooperative (CTRC), and the Nebraska State Recycling Association (NSRA).

Southwest Public Recycling Association

Mayors and staff from 20 cities in the southwest formed SPRA in January 1991. Headquartered in Tucson, Arizona, SPRA was created to address the member cities' concerns of locating reliable and accessible markets for their collected recyclables because the cities are located in geographically large and rural states with sizable distances to their markets. SPRA's goals are to encourage regional market development, strengthen their "buy recycled" procurement policy, and further develop their cooperative marketing efforts.

SPRA voting members include more than 150 political jurisdictions that consist of Native American tribal governments as well as city and county governments. Businesses, public institutions, individual government agencies, nonprofit organizations, and individuals may join the association but do not vote.

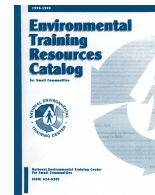
Since its inception, SPRA has developed a number of training and outreach initiatives for its multi-state service area. These include a quarterly newsletter, a toll-free hotline, 14 different training programs, and an annual conference that brings together key decision-makers and provides recycling training for its members.

SPRA offers a variety of training workshops for members as well as others who are interested in solid waste training. Topics include best practices for glass, plastics, and scrap metal recycling; "buy-recycled" products; compost and compost market development; quality control and cooperative marketing of recyclables; and managing conflict for solid waste officials.

continued on page 5



NETCSC announces fall training schedule page 2



NETCSC Products List pages 8-9



Training Skills: Making an electronic presentation page 10

Recycling marketing cooperatives allow small and rural communities to pool their recyclable materials and negotiate better prices for them. They also provide training and education to their members. Photo courtesy of Biocycle Magazine.





The National Environmental Training Center for Small Communities (NETCSC) is located at West Virginia University and was established in 1991 with funds from the U.S. Environmental Protection Agency.

E-train

Published Quarterly
ISSN# 10670173
Sponsored by

U.S. Environmental Protection Agency

Betty B. Ford

Project Officer for NETCSC
Municipal Assistance Branch

John L. Mori, Ph.D.

Manager, WVU
Environmental Services
and Training Division

Richard W. Phalunas, Ed.D.

Director

Jill A. Ross

Acting Editor

Daniel M. Gloyd

Graphic Designer

Susan Maczko

Promotions Editor

Article Submissions

E-train welcomes articles, letters to the editor, news items, photographs, or other materials for publication. Please address correspondence to:

E-train Editor

NETCSC

West Virginia University

P.O. Box 6064

Morgantown, WV 26506-6064

(800) 624-8301

(304) 293-4191

www.netc.wvu.edu

Reprints

Permission to quote from or reproduce articles in this publication is granted when due acknowledgement is given.

Please send a copy of the publication in which information was used to the E-train editor at the address above.

The contents of this newsletter do not necessarily reflect the views and policies of the U.S. Environmental Protection Agency, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.



E-train is printed on recycled paper.

West Virginia University

Equal Opportunity/Affirmative Action Institution

E-train

NETCSC announces training schedule for fall

The National Environmental Training Center for Small Communities (NETCSC) has announced that the following courses will be offered during the fall.

A homeowner septic system training course is scheduled for August 26 and 27 in Morgantown, West Virginia. Thomas Miller, a regional Extension Service specialist with the Western Maryland Research and Education Center, will present an evening program to educate homeowners on septic system management and maintenance. The following day, trainers and technical assistance providers will discuss how to run similar programs in other West Virginia locations.

An "Insider's View of On-Site Wastewater Training," a special train-the-trainer workshop, is scheduled for August 30 in Raleigh, North Carolina. North Carolina State

University and NETCSC are cosponsoring this event, which is being held in conjunction with the North Carolina Subsurface Wastewater System Operators Training School. To register, or for more information, contact Joni Tanner at the National Training Center for Land-Based Technology and Watershed Protection at (919) 513-1678. (See article on page 3 for more details about the workshop.)

The popular course, "Assessing Wastewater Options for Small Communities," will be held in Minneapolis, Minnesota, on October 13 and 14 in conjunction with the Midwest Assistance Program's (MAP) 20th anniversary celebration. To register, or for more information, contact MAP at (800) 822-2981. (See article on page 3 for more information on MAP's 20th anniversary.)

Other course offerings currently being planned include a water rate-setting training

course that will be held in West Virginia in October or November. This one-day workshop will cover water rate-setting and forecasting for small water systems. The workshop will use a rate design software, RateMod Pro, to help participants understand important rate-setting questions to consider in designing rates to



Trainer Lorene Lindsay addresses the 44 participants attending "Assessing Wastewater Options for Small Communities," a train-the-trainer workshop held July 8 and 9 in Morgantown, West Virginia. Lindsay is an environmental consultant with Miller Lindsay Environmental Services in Osage Beach, Missouri. Photo by West Virginia University Photographic Services.

recover the full costs of operating a system. Participants will learn financially responsible rate structuring methods and develop a rate structure for their own systems. The University of Maryland's Environmental Finance Center will cosponsor this event.

NETCSC also plans to offer "Assessing Wastewater Options for Small Communities" in Illinois in the fall. Details regarding location and dates are currently being worked out.

For the most up-to-date information about NETCSC course offerings, visit NETCSC's Web site at www.netc.wvu.edu.

For more information about these courses, write to Sandy Miller, NETCSC, West Virginia University, P.O. Box 6064, Morgantown, WV 26506-6064; call (800) 624-8301 or (304) 293-4191, extension 5536; or e-mail smiller@wvu.edu.



MAP celebrates 20 years of technical assistance with training

The Midwest Assistance Program (MAP) is celebrating 20 years of providing technical assistance and training to small communities by sponsoring a special training conference.

“20 Years of Technical Assistance Secrets Revealed” is set for October 13 and 14 at the Crowne Plaza Northstar Hotel in Minneapolis, Minnesota. This event will feature a banquet and four separate training tracks.

“The Secrets of Pollution Prevention” is designed for tribal leaders from reservations in the Midwest. Topics include a groundwater pollution demonstration, preventing pollution in a water distribution system, source water assessment programs, biosolids recycling, discharge permits and monitoring responsibility, grease traps, troubleshooting lagoons, an overview of the interrelationship of all media, contaminants and our world, and waste sorts. Attendees will develop an action plan for implementing a pollution prevention program for their water, wastewater, and solid waste facilities.

“The Secrets of Community Development” is designed for technical assistance providers, including circuit riders, planning districts, councils of governments, state agencies, and community action agencies. Major topics covered will include the secrets of complying with the Safe Drinking Water Act 1996 Amendments, the secrets of milestone management (a mechanism to measure progress), the secrets of cooperation and coordination, and solid waste management secrets.

“The Secrets of Executive Leadership” is for technical assistance organization directors and managers from the U.S. Department of Agriculture’s Rural Development, rural water associations, councils of government, state agencies, community action agencies, and others interested in rural development. Topics will include corporate fundraising, revolving loan funds, foundation funding, and organizational structures.

“Assessing Wastewater Options for Small Communities,” a train-the-trainer course, will enable local decision-makers to evaluate their communities’ current and future wastewater treatment needs and implement appropriate solutions. It will help local decision-makers who face operating and maintenance problems with existing wastewater facilities; public health, environmental, or regulatory problems; service expansion requirements; and new wastewater service development. This track is sponsored by the National Environmental Training Center for Small Communities.

Tuition for the event is \$185 for registrations received before September 10 and \$235 for registrations received after. It includes courses and materials, a continental breakfast, a reception, lunch, and banquet.

For more information or to register, write to MAP Inc., P.O. Box 81, New Prague, MN 56071; call (800) 822-2981 or (612) 758-4334; fax (612) 758-4336; or visit MAP’s Web site at www.map-inc.org.

North Carolina plans onsite wastewater training events

North Carolina State University (NCSU) is hosting two training events that will be of interest to onsite wastewater system operators and trainers.

The annual North Carolina Subsurface Wastewater System Operators Training School is scheduled for August 30 to September 2 and features a special preconference workshop: “An Insider’s View of On-Site Wastewater Training.”

Billed as the “premier operation and management training opportunity in the country,” the three-day operator training school will provide an excellent overview of almost all onsite technologies being used throughout the U.S. Designed to teach individuals how to provide quality service to owners of advanced onsite systems, the school features classroom sessions and hands-on demonstrations aimed at those planning to become certified operators of subsurface wastewater systems.

Cosponsored by the National Environmental Training Center for Small

Communities (NETCSC) “An Insider’s View of On-Site Wastewater Training” is a train-the-trainer workshop designed to help training centers deliver improved onsite system training, enhance their training centers, and make their programs financially self-sufficient.

The workshop will feature six intensive hours of training on program development and management, examples of existing program models that can be adapted for state and county needs, and an insider’s tour of the NCSU training center. Participants also will have the opportunity to purchase NETCSC’s *Onsite Wastewater Training Resource Pack* (includes an operator’s manual, trainer’s guide, and more than 400 slides and overhead transparencies) at a reduced rate.

For more information about these events or to register, call Joni Tanner at (919) 513-1678, fax (919) 515-7494, or e-mail joni_tanner@ncsu.edu.

Tenth Annual Northwest On-Site Conference set

The Tenth Annual Northwest On-Site Wastewater Treatment Short Course and Equipment Exhibition is scheduled for September 20 and 21 at the University of Washington in Seattle.

Sponsored by the University of Washington Department of Civil and Environmental Engineering and the Washington State Department of Health, this conference provides a venue for national and international experts to present current research and new information related to small-scale decentralized sewers and wastewater treatment.

George Tchobanoglous, Ph.D., professor emeritus of civil engineering at the University of California at Davis, will be the keynote speaker. A national and international consultant,

he has authored more than 300 technical publications, including 12 textbooks.

Featured conference topics include wastewater microbiology, virus transport in soil, overview of disinfection, drip irrigation systems, nitrogen issues, vacuum sewers, reuse of treated wastewater, constructed wetlands, renovating sand filters, textile fiber media technology, and Washington State designer legislation.

Apre-conference tour of the Northwest On-Site Training Center is scheduled for September 19.

For more information about the conference or to register, call (206) 543-5539; fax (206) 543-2352; or e-mail uw-epp@engr.washington.edu.

Third annual satellite conference focuses on homeowner issues

The University of Minnesota Extension Service has offered two satellite conferences relating to homeowner education and is currently planning a third.

The next live teleconference is scheduled for October 28 from 7 p.m. to 9 p.m. CDT, according to Ken Olson, an educator with the University of Minnesota Extension Service.

"The Next Generation of Sewage Treatment: Flushing in the New Millennium" is sponsored by the University of Minnesota Extension Service, Minnesota Pollution Control Agency, Minnesota On-Site Treatment Contractors Association, the Minnesota Department of Health, the National Small Flows Clearinghouse, and the National Environmental Training Center for Small Communities.

"The target audience is homeowners, community leaders, and local officials who want to learn more about how alternative treatment technology fits with conventional treatment

methods to solve wastewater treatment problems for individual homes and small groups of homes," Olson said.

The session will cover small lots, poor soils, shallow bedrock, and other problems, Olson added. "We'll do a lot of on-location interviews in addition to talking with 'experts' live in the studio."

A 1997 conference on sewage treatment options for unsewered areas included 60 sites in three states with more than 800 participants. A 1998 conference on alternative sewage treatment systems included 450 sites in 24 states with more than 7,000 participants.

Conference organizers are currently recruiting downlink sites for the conference. For more information about the satellite conference, call (800) 719-2825 or visit the University of Minnesota Extension Service's Web site at www.extension.umn.edu.

Small systems technology symposium scheduled for 2000

"Small Drinking Water and Wastewater Systems: Technology for the 21st Century," a technology expo and international symposium, will be held January 12 to 15, 2000, in Phoenix, Arizona.

Sponsored by NSF International and the Rural Water Research and Education Foundation (RWREF), the symposium will present the latest practical technological, operational, and management solutions and regulatory issues tailored specifically to small systems.

The symposium is the second in a series of small systems developed by NSF International in collaboration with the World Health Organization, the Pan American Health Organization, the National Environmental Training Center for

Small Communities, the National Drinking Water Clearinghouse, and other organizations to explore solutions to the challenges small systems face. The first international symposium, held in Washington, D.C., in 1998, gathered more than 400 experts to discuss the provision of safe drinking water in small systems.

Those interested in exhibiting or attending are invited to contact NSF International or RWREF for further information regarding the program. Contact Joseph Cotruvo at NSF International at (202) 289-2140 or cotruvo@nsf.org, or Diane Snyder at RWREF at (505) 830-1669 or rwref@nm.net.



Recycling marketing cooperatives: a proven delivery system for training

continued from page 1

Additional topics include recycling economics workshops designed to

assist SPRA members in running efficient and successful recycling programs. Two of SPRA's more recent additions to its training repertoire are waste reduction for the hospitality industry and vermi-composting.

"We also try to offer tours of recycling or composting centers when we provide workshops," said Anne Weaver-Lozon, SPRA's technical services director. "Tours provide concrete examples of what we are advocating in the training."

The workshops focus on reaching recyclers, solid waste officials, solid waste volunteers, compost operators, and others involved in providing solid waste services to rural communities. "Depending where and who we are targeting with the training, we enhance the workshop to meet the needs of the community we are serving," continues Weaver-Lozon. "For example, we offer a course on recycling economics called 'Recycling Economic Development 101.' However, for rural communities we provide 'Rural Recycling Economic Development' and 'Economics and Marketing of Recyclables for Small Communities' that cater to the knowledge and skills that rural communities need to know for successful recycling programs."

SPRA partnered with the National Environmental Training Center for Small Communities (NETCSC) in 1997 and 1998 to provide training to its members. "Economics and Marketing of Recycling for Small Communities" was presented at a Native American conference in Colorado. It also was presented to local solid waste officials of Sedona, Arizona, and rural local officials who attended the annual conference in Tempe, Arizona, in 1997 and Salt Lake City, Utah, in 1998. SPRA continues to offer this and other training programs at the request of members.

"Managing Groups and Conflicts for Solid Waste Officials" was another joint effort between SPRA and NETCSC. This two-day workshop was offered as a "train-the-trainer" workshop in Tempe, Arizona, in 1998. Since then, SPRA provides this workshop by request to teach regulatory and government officials who manage meetings where conflict and hostility may arise. The New Mexico Environment Department offered this training to their



regulatory officials a few months after one of their officials attended the "train-the-trainer" workshop.

"These programs focus on providing a trained workforce to support small community solid waste management efforts," said John Hoornbeek, NETCSC training research associate. "Our partnership with SPRA has encompassed four states and provided education to more than 100 individuals with interests and responsibilities relating to solid waste."

"The impact of such work has expanded local participation, enhanced the efficiency of recycling programs, and provided more commodities to the market," said Weaver-Lozon. "Training programs are not just a service—they are integral to the success of the cooperative."

Central Texas Recycling Association

Cis Myers, director of CTRA, agrees that education is important to a successful recycling marketing cooperative. CTRA became a non-profit organization in 1994 and in November 1995 brought in its first substantial market contract, paving the way for the organization to represent more than 45 cooperatives serving more than 225 public, private, and nonprofit entities.

"The long-term contracts with guaranteed floor pricing attract and keep communities in the cooperative," said Myers. CTRA's mission, consistent with other recycling marketing cooperatives, is to provide marketing of recyclables, promote end-market development in Texas, and promote recycling education.


continued on page 6



Solid waste resource CD-ROM available

A new CD-ROM of U.S. Environmental Protection Agency waste management publications contains the text equivalent of 10,000 pieces of paper.

A *Collection of Solid Waste Resources* features more than 150 publications, including the *Municipal Solid Waste Factbook*, an electronic reference containing national and state data on household waste management practices. Other publications cover topics of interest to the general public on both solid waste and hazardous waste.

To obtain a free copy of the CD-ROM, call the Resource Conservation and Recovery Act hotline at (800) 424-9346. Request Item #EPA530-C-98-001. 

Recycling marketing cooperatives: a proven delivery system for training

continued from page 5



CTRA's annual membership meeting, toll-free hotline, and training programs provide its members with technical assistance and networking opportunities. "Our annual membership meeting is held in conjunction with the Texas Recycling Coalition's annual conference," said Myers. "This partnership provides members with additional educational opportunities."

CTRA's training program centers on partnerships with the contracted recycling processors. Members of CTRA attend training programs and tours at the processors' facilities to learn best practices for collecting and processing recyclables. This transfer of knowledge allows CTRA members (typically community solid waste officials and community recyclers) to know what the processor needs. "These services have assisted recycling facilities and member communities to increase the volume and quality of materials they recycle," remarked Myers.

Through a U.S. Environmental Protection Agency grant, CTRA will be hosting the "South by Southwest Investment Forum" in 2000. It is designed to identify and support

recycling businesses in the recruitment of investors. "Ten to 12 businesses will be selected through an application process to develop and deliver a presentation which will be critiqued by financiers. The businesses will then improve on their presentation and present their business plan at the forum to banks and other capital investors," explains Myers. This hands-on training process provides businesses with an opportunity to gain skills and knowledge valuable to the economic viability of their businesses as well as to find investors to support their recycling business.

CTRA activities have provided the opportunity for more than 1.5 million citizens in central Texas to participate in recycling. This growth in the central Texas recycling industry has created job opportunities for citizens including those with disabilities. CTRA members are expanding their operations and have guaranteed markets for local recycling program commodities.

"This has been made possible because the vision of the cooperative is to establish and maintain recycling as an economically viable option for the community," said Myers. "Without the support of the Lower Colorado River Authority and other corporate and government sponsors, CTRA could not continue to be as successful as it is."

Nebraska State Recycling Association

NSRA is also a private, nonprofit organization whose mission is "to serve as a catalyst for Nebraska communities, businesses, and citizens by improving the consumers' ability to conserve resources." This is accomplished by using local resources to solve solid waste challenges, to promote public/private partnerships, and assist in the creation of recycling markets at the local and regional levels.

NSRA has developed a broad membership representing local and national interests during its 18 years of existence. Membership services include a free initial waste assessment to member businesses, access to the resource library and training programs, and contacts with recycling networks throughout the U.S. Services are designed to enhance Nebraska communities' ability to conserve resources in an economical way.

The strategy for sustainable communities is based on the education of both public and private decision-makers about waste reduction,



Twenty cities joined together in 1991 to create the Southwest Public Recycling Association to encourage regional market development, strengthen "buy recycled" procurement policy, and develop cooperative marketing efforts. Photo courtesy of Southwest Public Recycling Association.

continued on next page

continued from previous page

recycling practices, and techniques. Assistance is typically provided through sector-specific workshops, resource locations, and an annual conference.

NSRA hosts its annual Recycling Conference and Trade Show, which provides members with the latest information on recycling, new programs, technologies, market development, and other key recycling issues. "Last year the conference focused on market development issues. This year NSRA is pooling resources with the states of Iowa and South Dakota to conduct the Tri-State Buy Recycled Conference," said Kay Stevens, NSRA director.

In addition to the annual two-day conference and specialty workshops, NSRA has developed training programs to garner community support for recycling and source reduction as well as to educate its members. To assist rural communities in comparing the real costs, NSRA has developed a training program focusing on the politics and economics of waste reduction, recycling, and landfilling.

"The Eight Steps to Successful Recycling" teaches an organized method to developing a rural recycling program," explained Stevens. "The community recycling program includes waste reduction with waste management services, which provides for an integrated system."

The program educates the participants on the cost of solid waste services, conducting a solid waste assessment, determining the most appropriate service for the community, possible regionalization of services, marketing, and evaluating the chosen program. It is designed to be a complete package with a targeted end result—educated and informed solid waste decision-makers.

The newest addition to NSRA's training lineup is the "Rural Recycling Strategies Cooperative Marketing Toolkit." It is designed to teach rural communities how to set up a recycling cooperative. "Communities are so spread out in Nebraska, many times the nearest town is many miles away," remarked Stevens. "Accessibility to recycling processors is hampered due to these large distances, and that's one reason why recycling cooperatives are necessary."

Each year, NSRA offers four one-day workshops around the state. The next one in Ogallala will focus on rural recycling strategies for communities and businesses. Case studies, videos, market updates, and the new toolkit are



used during the training. "We complete the day by offering a networking dinner and roundtable discussion with the participants," said Stevens. "Most of our participants are from communities, recycling businesses, and nonprofit organizations." The dinners offer time for the participants to relax, meet, and exchange ideas with other solid waste officials, recyclers, and representatives from industry.

One of the successful outcomes of Nebraska's rural recycling training program has been the transfer of the eight step recycling program to the national level. The training program was offered in September 1998 as a preconference workshop at the National Recycling Coalition's annual conference in Albuquerque, New Mexico. Trainers from various areas of the country spent the day delivering this program to a select group of rural recyclers.

These associations were formed to assist small and rural communities that wanted to become more competitive in the recycling industry through cooperative marketing. Over time they evolved to provide education and training for isolated regions and rural communities via their membership structure. This network of members is an invaluable source of local and national partnerships and opportunities that benefits rural recyclers. ♣

Contact information

Southwest Public Recycling Association
P.O. Box 27210
Tucson, Arizona 85726
(520) 791-4069
(520) 791-5242 (fax)
www.borderecoweb.sdsu.edu
mitraaol.com (e-mail)

Central Texas Recycling Association
P.O. Box 220
Austin, Texas 78676-0220
(512) 473-4085
(512) 473-3390 (fax)
www.lcra.org/about/ctra
sheri.nielson@lcra.org (e-mail)

Nebraska State Recycling Association
1941 South 42nd Street, Suite 512
Omaha, Nebraska 68105
(402) 444-4188
(402) 444-3953 (fax)
www.gadfly.creighton.edu/nsra
nsra@novia.net (e-mail)



NETCSC Products List

The following products are available from the National Environmental Training Center for Small Communities. To place an order, call NETCSC at (800) 624-8301 or (304) 293-4191.

NETCSC Database Searches

TRBLCM07 Trainers Database	Cost varies
TRBLCM03 Training Activities Database	Cost varies
TRBLCM05 Training Organizations Database	Cost varies
TRBLCM06 Training Materials Database	Cost varies

Environmental Management

Training Packages

TRTPCD01 Basics of Environmental Systems Management for Local Officials/Training package	\$87
TRBLCD02 Basics of Environmental Systems Management for Local Officials/16 bound participant booklets	\$28
TRBLCD03 Basics of Environmental Systems Management for Local Officials/16 loose participant booklets	\$22
TRTPCD04 Working Effectively in Small Communities on Environmental Projects	\$61

Training Aids

TRVTOM06 Pollution Prevention for Vermont's Dairy Manufacturing Facilities	\$5.30
TRBKPP01 Public-Private Partnerships for Environmental Facilities: A Self-Help Guide for Local Governments.....	\$0.00

Training-Related Information

TRBLGN03 Small Community Characteristics and Human Resources Affecting Environmental Management: Building the Capacity of Small Communities Through Training	\$5.75
TRBKGN02 Final Report: Training Needs Assessment	\$9.05
TRBKRG01 A Guide to Federal Environmental Requirements for Small Governments	\$16.70

Drinking Water and Wastewater

Training Packages

TRTPEP06 Chlorine Residual	\$55
TRBLFN03 Managing Your Utility's Money/Instructor's guide	\$0.00
TRBLFN02 Managing Your Utility's Money/Participant's manual.....	\$11.25

Training Aids

TRBLGN01 The Power to Protect: Three Stories about Groundwater/Booklet.....	\$5.65
TRVTGN16 The Power to Protect: Three Stories about Groundwater/Video	\$30.65

Training-Related Information

TRBLGN04 Operator Training Opportunities	\$2
------------------------------------------------	-----

Wastewater

Training Packages

TRTPEP01 Activated Sludge	\$120
TRTPEP02 Aerobic Digestion.....	\$110
TRTPEP03 Anaerobic Digestion.....	\$110
TRTPCD06 Assessing Wastewater Options for Small Communities.....	\$52
TRTPEP05 Centrifuge Test	\$60
TRTPCD07 Communicating Drinking Water Issues/Train-the-trainer manual	\$37
TRTPEP04 Concepts of Biological Treatment	\$117
TRTPEP09 Depth of Blanket	\$90
TRTPEP11 Fecal Coliform–Membrane Filtration Procedure	\$95
TRTPCD16 Industrial Pretreatment and Hazardous Material Recognition for Small Communities (for Wastewater Operators)/ Training package	\$86
TRTGCD17 Industrial Pretreatment and Hazardous Material Recognition for Small Communities (for Wastewater Operators)/ Instructor's guide	\$51
TRPMCD18 Industrial Pretreatment and Hazardous Material Recognition for Small Communities (for Wastewater Operators)/ Participant's manual	\$43
TRTPEP10 Lagoons: Facultative and Aerated...\$88	
TRTPCD09 Onsite Wastewater System Operation and Maintenance (for Operator Trainers)/Training package	\$273
TRTGCD10 Onsite Wastewater System Operation and Maintenance (for Operator Trainers)/ Instructor's and participant's guides.....	\$43
TRPMCD11 Onsite Wastewater System Operation and Maintenance (for Operator Trainers)/ Trainer's resources	\$241
TRRPCD12 Onsite Wastewater System Operation and Maintenance (for Operator Trainers)/ Operator's manual	\$36
TRTPEP14 Settleometer	\$55

Training Aids

TRVTOM01 Analysis of Biochemical Oxygen Demand	\$35
TRVTOM05 Identification of Filaments in the Activated Sludge Process	\$0.00
TRVTPE02 Microlife in the Activated Sludge Process/Video	\$0.00



TRBLPE01 Microlife in the Activated Sludge Process/Workbook.....	\$0.00
TRPKOM07 RTW Activated Sludge Troubleshooting Guide	\$49.50
TRVTPE05 Total Suspended Solids	\$22.90
TRPSOM08 Troubleshooting Guide for Lagoons	\$1.65
TRPSOM09 Troubleshooting Guide for Rotating Biological Contactors.....	\$1.65

Training-Related Information

TRBLGN18 Onsite Wastewater Training Directory	\$4.35
TRBKGN08 Wisconsin State Wastewater Center Study Guides.....	\$32.90
TRBLOM03 Wastewater Certification for Wastewater Operators and Maintainers	\$3.05

Drinking Water

Training Packages

TRTPEP13 Bacteriological Sampling in Distribution Systems.....	\$85
TRPMCD08 Communicating Drinking Water Issues	\$49
TRTPEP07 Introduction to Disinfection	\$97
TRTPEP12 Introduction to Groundwater Sources	\$90
TRTPEP15 Introduction to Surface Water Sources	\$100
TRTPEP08 Introduction to Water Distribution Systems for Operators	\$100
TRTPEP16 Introduction to Water Treatment	\$82

Training Aid

TRVTGN14 Protecting Your Groundwater Supply: Putting the Pieces Together	\$15
--------------------------------------------------------------------------------	------

Training-Related Information

TRBLOM02 Drinking Water Operator Certification for Drinking Water Operators and Maintainers	\$2.60
TRBKGN07 Wisconsin State Drinking Water Center Study Guides	\$10.10

Solid Waste

Training Packages

TRTPCD19 Economics and Marketing of Recyclables for Small Communities	\$66
TRTPCD05 Managing Groups and Conflict.....	\$70
TRTPCD24 Planning Solid Waste Management Options/Training package.....	\$66
TRPMCD25 Planning Solid Waste Management Options/Participant's manual	\$46
TRTPCD13 Reducing Commercial and Industrial Solid Waste (for Small Community Solid Waste Managers)/Complete package	\$72
TRTGCD14 Reducing Commercial and Industrial Solid Waste (for Small Community Solid Waste Managers)/Trainer's guide	\$46

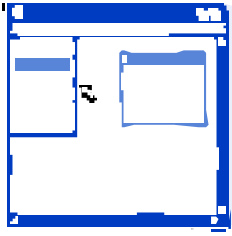
TRPMCD15 Reducing Commercial and Industrial Solid Waste (for Small Community Solid Waste Managers)/Participant's manual	\$40
-------------------------------------------------------------------------------------------------------------------------------	------

Training Aids

TRBKMG01 Business Guide for Reducing Solid Waste	\$0.00
TRBKMG02 Decision Maker's Guide to Solid Waste Management, Second Edition	\$0.00
TRBKFN04 Determining the Economic Feasibility of a Solid Waste Boiler	\$11.50
TRBKGN15 Determining the Feasibility of Resource Recovery	\$11.25
TRBKOM04 Estimating Composition and Quantities of Solid Waste Generation	\$10.35
TRBKFN01 Estimating Solid Waste Transportation Costs	\$8.95
TRBKFN05 Full Cost Accounting for Municipal Solid Waste Management	\$10.10
TRBKPE04 Landfill Technical Guidance Manual	\$35.20
TRBLGN09 Media Interviewing Skills for Recycling Coordinators	\$5.75
TRVTPE06 Nuts and Bolts of Pay-as-You-Throw Video Conference	\$13.35
TRPKTR12 Pay-as-You-Throw Tool Kit	\$0.00

Training/Adult Education

TRBLGN10 1995 Small Community Environmental Training Trends and Issues.....	\$3.75
TRBLGN05 1994 Small Community Environmental Training Trends and Issues	\$3.05
TRBLGN13 Annotated Bibliography for Training Evaluation	\$1.60
TRBLTR07 Computer-Assisted Instruction in Environmental Training	\$2.60
TRBLTR11 Coping with Varied Entry Level Skills: Tailoring for all Learners	\$15
TRBLTR03 Evaluating the Results of Environmental Training	\$2.90
TRBLGN17 Evaluating Training	\$4.75
TRBLTR08 Formative Evaluation of Environmental Training Programs	\$2.90
TRBLTR04 Instructional Design Considerations for Environmental Training	\$2.20
TRBLTR06 Interactive Video in Environmental Training	\$2.90
TRBKTR13 NETCSC Training Skills Handbook	\$8.50
TRBKTR01 Questioning Techniques for Trainers: Developing Critical Thinking	\$15
TRBLTR09 Summative Evaluation of Learners in Environmental Training	\$3.20
TRBLTR05 Teleconferencing in Environmental Training	\$2.75
TRBLTR02 Training Needs Assessment: Matching Techniques and Contexts	\$3.20



Training Skills: Making an electronic presentation

by Susan Maczko
NETCSC Promotions Editor

Editor's Note: The previous two issues of E-train have introduced readers to the use of Microsoft PowerPoint® to make professional presentations. (See Winter 1999 and Spring 1999 issues.) This article explores the advantages of using electronic projection and provides tips to ensure a successful presentation.

Now that you have learned how to create a powerful presentation using PowerPoint®, you are ready to give your PowerPoint® presentation to your audience. This can be done by using an overhead projector and transparencies or by showing slides. However, you may wish to consider giving a multi-media presentation directly from your computer.

There are several advantages to giving electronic presentations from your computer. You can give your presentation in a partially lit room instead of having the lights completely off. You can use your computer's color options. You can take full advantage of the many features of PowerPoint®, including animation and transitions. And you can change your presentation at the last minute without the expense of creating new slides.

Before you attempt to give an electronic presentation, you should become familiar with the software and equipment necessary to do so, as well as potential problems you might encounter.

Basic equipment needs

For multi-media presentations you will need a laptop or desktop computer, a video graphics array (VGA) monitor cable that is compatible with your computer to connect the laptop to the projector (If you are using a Macintosh monitor, a cable with an adapter is needed to make it VGA compatible.), a liquid crystal display (LCD) projector, a screen to project the presentation on to, and a power source (a three-prong plug is standard on equipment). It is a good idea to use a surge protector power strip to protect the equipment from a power surge.

Check the software on the computer you will be making your presentation from to make sure it has the same version of PowerPoint® that created your presentation. An older version of PowerPoint® will not run a newer version. For example, if you created your presentation



in PowerPoint® 97 and the computer you will be using for your presentation has PowerPoint® 95, you will be unable to open your presentation.

PowerPoint® has a special feature to assist you if the location site of your presentation does not have PowerPoint® software. PowerPoint® Viewer software can be downloaded for free from Microsoft's Web site (located at <http://office.update.microsoft.com/downloadCatalog/dld/PowerPoint.htm>) and will allow you to open and play a presentation prepared in PowerPoint® without having to buy a license for the full version of the software. The only drawback to using this option is that PowerPoint® Viewer will not allow you to make changes to a prepared presentation. It is only a "viewer" for opening presentations.

To use this option, save your PowerPoint® presentation to a disk. (Saving a back-up copy on a separate disk is highly recommended.) It also will be necessary to download the PowerPoint® Viewer software from the Web site to another disk that can be installed later on the computer you will be using for your presentation. If you are able to take a laptop with you, save your PowerPoint® presentation on the laptop (Saving it to the Desktop will create an icon that can be opened easily.) and download the PowerPoint® Viewer. The Viewer should be able to open presentations created in both PowerPoint® 95 and 97.

Another option is to save your presentation in an older version of PowerPoint® in addition to the newer version. You can always convert materials up from an older version.

Be sure to inquire about the projector that will be used. It should have at least one red, green, blue (RGB) computer input connection with a 15-pin input connector (just like the computer). The brightness should be at least 600 American National Standards Institutes (ANSI) lumens—the standard brightness. If you use less than 600 ANSI, the lights will have to be turned off.

When planning to use your own projector you must decide which type. An ultra-portable projector weighs up to 10 pounds, a portable projector weighs 10 to 20 pounds, and a

continued on next page



continued from previous page

stationary projector can weigh 20 pounds or more. The type of projector you choose may be a comfort decision if you have to travel.

Many projectors have a remote mouse control. The advantage of a remote control is that you do not have to stand next to the computer to make your presentation; you may move around the room. This allows the audience to have a better view too. Some projectors come with a laser pointer as an added feature.

Resolution and computer signals

Computer lingo may sound like a foreign language if you are not familiar with it, but in order to arrange for the proper setup at your conference site it is necessary to understand it. The number of dots per inch (dpi) describes the resolution or clarity with which an image is displayed. The more dots per inch, the more detail and better resolution an image will have. The term "pixel" is used to describe the resolution of a computer or a monitor in terms of the vertical and horizontal grid it forms. All computers are set at a certain resolution. VGA, a standard computer signal that carries the digital information which creates the image, is 640 x 480 pixels. Other signals are super video graphics array (SVGA) at 800 x 600 pixels, extended graphics array (XGA) at 1024 x 768 pixels, and super extended graphics array (SXGA) at 1280 x 1024 pixels.

When using a projector or monitor to make your presentation, you will need to know the resolution of your computer. If your computer output is 800 x 600 and the projector output you plan to use is only 640 x 480, the remaining pixels will be left out of the picture. You can check your computer's resolution by clicking on the "Start" button on your Desktop and then highlighting "Settings" and "Control Panel." Click on the "Display" icon in the Control Panel window that appears and then on the "Settings" tab. The resolution can be adjusted by clicking and dragging the fader in the area labeled "Desktop Area."

Planning ahead

Planning ahead is critical to the success of a multi-media presentation. Consider the following scenarios that might occur.

In the first scenario, there is no laptop computer or projector available to take to the conference site. You will need to know if the conference site has a laptop computer, a VGA monitor cable, an LCD projector, a screen to project on, and a power source. You also will need to know if the computer and projector have compatible resolutions.

Your presentation will have to be stored on a disc and downloaded to a borrowed or rented computer. If the presentation is more than 1.4 megabytes it will have to be saved on a zip disc, which can hold up to 100 megabytes of information. A zip disc can be used like a floppy disc, but it must be used in a zip drive. An external zip drive can be attached to a computer that does not have an internal zip drive. In this scenario, it is necessary that the computer you have borrowed or rented has a zip drive. It is advisable to download your presentation from the zip disc onto the computer's hard drive rather than trying to show the presentation from the zip disc because the program will run faster from the hard drive. Another precaution to take is to make a back-up zip disc in case one becomes magnetized or wet. Keep the spare zip disk in a separate place.

In the second scenario, you have a laptop computer that outputs XGA (1024 x 768 pixels) and the conference site has a projector capable of VGA (640 x 480 pixels). This will create problems with the screen being cropped and not all of the information in your presentation being seen. (If the projector has a higher pixel resolution than the computer there would not be a problem). To correct this problem, you must adjust the resolution on your computer.

If you do not have a projector, practice on a borrowed projector or plug your laptop computer into another monitor before you leave for the conference site. Make sure the laptop has the proper software and load the presentation onto the laptop. Make a back-up disc of the presentation.

In the third scenario, you decide to take a laptop computer and a projector with you. You will still need to inquire about what provisions the conference center has available. Consider asking these questions: Is a power strip available or do you need to provide one? Will there be a table or a screen? Does the lighting in the room have dimmer capabilities or is it all or nothing? If all the lights have to be left on, 800 to 1000 ANSI will be necessary. A dimmer switch is useful if you plan to use handouts.

In all three scenarios you will need to ask if technical support will be available. If not, you will need to learn how to connect the cables properly and how to run the equipment. Arrive at the site early to set up the equipment and be ready to troubleshoot any problems that may arise.

Check out the conference site

Audiovisual equipment will vary from one conference site to another. Expect to pay

continued page 13



Surfing for solid waste information

by M. Caigan McKenzie
NETCSC Contributing Writer

Organized recycling grew out of World War II when Europe's physical devastation made recycling machinery and disaster debris necessary to rebuild its infrastructure and buildings. At the same time, the U.S. supported the war effort by recycling scrap newspaper, rubber, and metal.

Today, uses for solid waste have mushroomed. For example, raw feedstock, minerals, organic matter, nutrients, and energy are just some of the beneficial uses that should be considered when waste generation is unavoidable. However, the infrastructure and technology for managing solid waste continues to evolve so rapidly that it is difficult for already harried government officials, business persons, and private individuals to be aware of all the available options for recycling wastes. Below are some Web sites that can help guide you.

EPA's Solid Waste Management Site

For a structured, step-by-step approach to recycling, log on to the U.S. Environmental Protection Agency's (EPA) Web site at www.epa.gov/epaoswer/non-hw/muncpl/dmg2.htm. Here you will find an online guide,

Decision Maker's Guide to Solid Waste Management, that covers recycling topics ranging from educating the public to proper disposal. Facility siting and permitting, developing waste management programs, source reduction, and land disposal also are discussed.

The guide targets solid waste management practitioners such as facility owners and operators, consultants, and regulatory agency specialists. Rich with technical and economic information, the guide can help practitioners choose the best method for reducing waste at its source and for integrating various solid waste management systems into a cost-effective and protective program for human health and the environment.

Earth's 911

Did you know that for as little as \$300 a year, "Seinfeld's" Julia Louis-Dreyfuss, musician Kenny Loggins, or "Just Shoot Me's" Wendy Malick will do a public service announcement or radio spot customized to your community? The price tag also includes unlimited use. This is only one of many available resources Earth's 911 offers to the public through its Web site at www.1800CLEANUP.org or by calling 1-800-CLEANUP. The service is available 24 hours a day and most of Earth's 911 resources are provided to the general public at no cost.

Earth's 911 is comprised of nonprofit organizations, public sector agencies, and private sector corporations that have united to promote positive changes to our environment. Through this partnership, economies of scale and scope are achieved, promoting this public service across the nation and centralizing environmental resources into one user-friendly network.

Unlike many environmental programs that focus on repairing damage that has already been sustained, Earth's 911 focuses on a proactive solution to today's environmental issues including recycling, disposal of hazardous household products, composting, and energy conservation. There is even a section devoted to kids.

For community-specific information, simply enter your zip code and you will be guided to information relevant to your area. Earth's 911 invites the public to add recycling and hazardous waste sites to its database of information.

continued on next page

The recycling process

As the three arrows of the international recycling symbol show, recycling involves three distinct steps:

- 1 the separation and collection of recyclable materials,
- 2 the processing and manufacturing of these materials into new products, and
- 3 the purchase and use of recycled products.



Households and workplaces can participate in recycling not only by separating and collecting recyclable materials from the waste stream, but also by purchasing and using recycled products.



continued from previous page

Earth's 911 has won more than 70 awards for its work in protecting the environment, including the "Hammer Award" for excellence in providing public benefits, the "National Information Infrastructure Community Award" for extraordinary achievement in a new era of communication and knowledge, and the "National Award for Environmental Sustainability" for environmental achievement.


Global Recycling Network

The Global Recycling Network (GRN) located at www.grn.com can put you in touch with companies that buy and sell recyclables, organizations that offer environmental courses, companies that are searching for employees in the environmental field, and just everyday people who have recycling questions.

Most of the information in this site is available to the general public. The Chicago

Board of Trade (CBOT) Recyclables Exchange section, however, does require a nominal one-time registration fee and a small charge for listings on a pay-as-you-go basis. The CBOT section enables registered users to have immediate contact with buyers and sellers of recyclable commodities that are active on the market at any given time. Sellers post their sell listings in the exchange while buyers enter parameters for the commodities they are interested in purchasing. The system then e-mails to potential buyers all sell listings that match the buyers' needs.

You can list your company for free in the company showcase section. Here, GRN maintains a list of companies divided into categories. For example, companies may be listed under electronics recycling, products made with recycled materials, or textile recycling.

The "Recycle Talk" section offers an opportunity for people to find answers to questions specific to their needs. This part of the site is staffed by a representative from the EPA. 

Making an electronic presentation

continued from page 11

additional fees, depending on the type of equipment needed. Many hotels and motels offer audiovisual equipment for their guests, but the type of equipment varies, even among well-known chains.

For example, the Ramada Inn offers meeting rooms of various sizes and video equipment including video cassette recorders, television monitors, overhead projectors, 35-mm carousel slide projectors, and screens. At this time, the Ramada Inns contacted for this article do not offer access to computer generated projectors.

The Lakeview Scanticon, a resort and conference center located in Morgantown, West Virginia, offers a more complete audiovisual package, including 35-mm slide projectors with automatic timer and stand, SVGA data projectors, overhead projectors, video cassette recorder and monitor packages, screens, and operator services. The prices vary for renting the equipment, and there is an extra charge for labor.

Universities and colleges will often provide requested equipment at no charge if the conference is sponsored by or connected to the educational institution. Technicians usually are available to set up the equipment and can deal with any problems that may arise.

Most government agencies have multimedia capabilities. Some are equipped with screens, projectors, computers, zip drives, and all the necessary hardware. Many agencies

have multi-media centers with large rooms dedicated solely to multi-media use.


Helpful tips

During your presentation, you can draw or write on the slide images to make a point or to provide detailed information by manipulating the mouse. Move the mouse until the arrow appears, click and hold until the pointer changes to a dot, then move the dot by the mouse to draw on the screen. Press the "Shift" key while dragging the mouse for lines. When the next slide appears, PowerPoint® erases the previous slide drawing.

If your presentation is being shown at a booth or trade show, remove the mouse and keyboard to guarantee an interruption-free presentation.

Keyboard commands are a faster method to advance slides, return to previous slides, to stop and restart the show, and to end the show. Keep a written copy of the commands you plan to use close by for easy reference during your presentation.

For more information on multi-media equipment or for technical help, check out these Web sites: www.microsoft.com and www.mind-media.com

Scott Payne, information systems technician, and Amy Van Zant, senior information technology consultant, with West Virginia University's Office of Academic Computing provided technical information for this article. 

trainingresources



Solid Waste Contract Negotiation Handbook

Developed by the U.S. Environmental Protection Agency.

Content: This 76-page handbook covers solid waste management practices, regional facilities and partnerships, and compliance with new environmental and public health protection standards. It includes case studies and sample contracts.

Use: This handbook will assist local government officials and the general public in developing and negotiating contracts for solid waste programs and facilities with private companies and governmental units.

EPA/220/B-92/004 Book, 1992.....Free

Contact: National Service Center for Environmental Publications, P.O. Box 42419, Cincinnati, OH 45242; call (800) 490-9198; fax (513) 489-8695; or visit www.epa.gov/ncepi-hom/index.html.

Training Needs Analysis Toolkit: Instruments, Exercises, Resources, and Surveys

Developed by Sharon Bartram and Brenda Gibson.

Content: This 185-page manual discusses the importance of training needs analyses, how to perform an analysis, ways to identify training needs, and how to develop training strategies and training plans. It includes 22 activities that cover organizational climate, managing resources, and job skills.

Use: This manual will help trainers to analyze training needs, select training strategies, and develop training plans. It contains reproducible handouts and worksheets for gathering and processing information about training and development issues in an organization.

ITEM #TNAT Paperback manual, 1995...\$39.95

ITEM #TNATM Paperback manual and Microsoft Word 6.0 diskette, 1995.....\$89.95

ITEM #TNATW Paperback manual and Word Perfect 6.1 diskette, 1995.....\$89.95

Contact: HRD Press, 22 Amherst Road, Amherst, MA01002; call (800) 822-2801; or e-mail info@hrdpress.com.

Small Water System Operation and Maintenance: A Field Study Training Program, Fourth Edition

Developed by California State University at Sacramento.

Content: This 578-page manual contains information on what small water system operators do, sources and uses of water, how to operate and maintain wells and pumps, and operation and maintenance of small water treatment plants. It also covers recognizing hazards and developing safe procedures and safety programs, laboratory procedures for analyzing samples of water, and procedures to develop a reasonable rate structure.

Use: This manual was developed to serve as a home-study or self-paced instruction course for operators.

Manual, 1995.....\$22.00
(California residents add \$1.60 tax.)

Contact: California State University, Office of Water Programs, 6000 J Street, Sacramento, CA 95819-6025; call (916) 278-6142; fax (916) 278-5959; visit www.owp.csus.edu, or e-mail wateroffice@csus.edu.


Basics of Environmental Systems Management CD-ROM

Developed by the National Environmental Training Center for Small Communities and Tennessee Technological University.

Content: This training program provides a basis for understanding the fundamentals of drinking water treatment, wastewater treatment, solid waste management, and decision making.

Use: This CD-ROM can be used on either Macintosh or IBM computers.

TRSWCD36 CD-ROM, 1999.....\$2.50

Contact: National Environmental Training Center for Small Communities, West Virginia University, P.O. Box 6064, Morgantown, WV 26506-6064; call (800) 624-8301 or (304) 293-4191; fax (304) 293-3161; or e-mail netc_orders@mail.estd.wvu.edu. 



Interactive source water protection CD-ROM available

An interactive CD-ROM that assists trainers and operators of small public water systems in developing a source water protection plan is now available from the Montana University System Water Center.

Trainers may use the CD-ROM as a tool to provide a standardized approach to program development.

Information on the CD-ROM is from the original manual authored by the Montana Department of Environmental Quality and the Montana Bureau of Mines and Geology. It includes a variety of multimedia components

that make the learning process more entertaining. Quizzes are provided to test the user's knowledge as well as a template that can be used to create, save, and update a source water protection plan.

The first 100 CD-ROMs will be free; afterward, the cost will be \$20.

To order the CD-ROM, write to Source Water Protection Training CD-ROM, Montana University System Water Center, 101 Huffman Building/MSU-Bozeman, Bozeman, MT 59717-2670; call (406) 994-6690; fax (406) 994-1774; or e-mail water@montana.edu. ◆

New NETCSC training resources catalog available

More than 100 helpful training resources are detailed in the new *Environmental Training Resources Catalog for Small Communities* now available from the National Environmental Training Center for Small Communities (NETCSC).

This new 24-page catalog provides detailed descriptions of the current training packages, training aids, and training-related information available from NETCSC. Topic areas include training packages, NETCSC database searches, environmental management, drinking water, wastewater, solid waste, training, and adult education.

Information also is provided on the organization that developed the resource, year of publication, number of pages, type of product, item number, and price for each resource.

To request a free copy of the training resources catalog, contact NETCSC at (800) 624-8301 or (304) 293-4191. ◆

NETCSC's online forum up, running

The National Environmental Training Center for Small Communities (NETCSC) has developed an online trainers' discussion forum for environmental trainers. This allows trainers the opportunity to ask for advice, share experiences, or help a fellow trainer, all from the convenience of a keyboard and Internet Web browser.

Trainers may bring up any issues that are of concern to them. Recent discussions have included ideas on lowering the cost of training sessions, tips for improving evaluations, and understanding how to use distance learning.

Users may read messages posted by others, reply to them, ask questions, or add comments concerning environmental training.

"NETCSC developed this online forum to allow busy environmental trainers to interact with each other," said Richard Phalunas, Ed.D., NETCSC director. "Trainers report it will be a great way to network with colleagues who share a common interest."

To access the forum, visit NETCSC's Web site at www.netc.wvu.edu. ◆

Groundwater Guardian program accepting applications

Groundwater Guardian, an international program of The Groundwater Foundation designed to support and recognize citizen involvement in local groundwater protection projects, is now accepting community applications year-round.

Each Groundwater Guardian community forms a team representing business and/or agriculture, local government, education, and citizen groups to participate actively in planning and implementing groundwater protection projects. Teams adopt and implement activities ranging from education and awareness programs to wellhead protection and local land-use ordinances.

The Groundwater Foundation serves as a catalyst and organizer for Groundwater Guardian and offers a wide variety of valuable benefits to communities.

Communities may enter the Groundwater Guardian program immediately by filling out the entry forms on the foundation's Web site—www.groundwater.org. A Guide to Groundwater Guardian, which provides a more in-depth description of the program, is available free through The Groundwater Foundation at (800) 858-4844 or guardian@groundwater.org. ◆

Yes! I want to subscribe to *E-train*.

We hope you enjoyed this issue of *E-train*. If you do not have a subscription, please fill out and return this coupon. If you have already returned a coupon, you do not need to send it to us again. Feel free to share this coupon with a colleague interested in *E-train*.

Name/Title: _____

Organization: _____

Address: _____

Phone: _____ Fax: _____

Comments/questions/suggestions: _____

Check for address correction.

Please add me to your Request for Proposals (RFP) mailing list.

Organizational Affiliation

Environmental Company/Manufacturer

Local Government

State Agency

Federal EPA

Federal Agency

International Agency

State Organization

National/Regional Organization

County Health Department

Service District

Regional District

Operator

Educational Institution

Contractor/Developer

Consultant/Engineer

Legal Profession

Press/Mass Media/Newsletter

Community

Private Citizen

Interests/Expertise

Wastewater

Drinking Water

Solid Waste

Training

Outreach

Regulations

Enforcement/Compliance

Operation/Maintenance

Design

Planning/Management

Nonpoint Source

Research

Finance

NSFC holds conference for state regulators


Forty-five state regulators representing 41 states attended the first ever National Onsite Wastewater State Regulators Conference held in St. Louis, Missouri, April 29 to May 2.

Coordinated and sponsored by the National Small Flows Clearinghouse (NSFC), the conference brought together state-level onsite wastewater regulators to network, coalesce, and become a united group in order to shape onsite wastewater regulation for the future.

According to Peter Casey, P.Eng., NSFC program coordinator, the conference surpassed everyone's expectations. "It was clear that the attendees were thirsting for support and rapport with their peers. A spontaneous interchange of ideas took place throughout the entire conference." Casey said plans are already underway for another state regulators conference next year.

Topics covered included implementation of performance-based codes, incorporating risk assessment in onsite wastewater regulation, alternative technologies and the approval process, certification and training, onsite wastewater management issues and inspection programs, U.S. Environmental Protection Agency voluntary management standards, state regulators as a resource, the role of advisory boards and the public in rule making, and gaining confidence in onsite wastewater technology performance.

Proceedings from the conference are currently being developed and will be available in the near future.

For more information about the conference or state regulations for onsite wastewater systems, call the NSFC at (800) 624-8301 or (304) 293-4191. 

Cut or copy this coupon and send it to the *E-train* editor at the address below or fax it to (304) 293-3161.



**National Environmental Training
Center for Small Communities**
West Virginia University
P.O. Box 6064
Morgantown, WV 26506-6064

NONPROFIT
ORGANIZATION
U.S. POSTAGE PAID
PERMIT NO. 34
MORGANTOWN, WV

ADDRESS SERVICE REQUESTED