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# WEF HIGHLIGHTS

APRIL 2003  
VOL. 40 No. 3

News for Members of the Water Environment Federation

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## Biosolids Conference Builds Toward Future, Sings Praises of Past

Despite a blizzard, 690 brave souls journeyed to Baltimore on Feb. 19–22 to attend the 17th Annual Joint Residuals and Biosolids Management Conference and Exhibition. Some noted that the experience of navigating among heavy machinery and large piles of material was familiar. “Not unlike the road crews that have moved mountains of snow lately,” said **Lori Stone**, WEF conference co-chair and a principal engineer at CH2M Hill (Englewood, Colo.), “we move mountains of biosolids every day.”

Conference goers had their choice of four workshops, 24 technical sessions, and four tours. While the schedule was dominated by technical presentations on solids processes, the conference also included information on relatively new areas, such as developing public partnerships, managing

odor concerns, and implementing environmental management systems, Stone said.

“We still need all that strong process and...technology information, but now we’re going into areas that we really haven’t done before,” she noted.

For example, **Ian Pepper**, director of the University of Arizona (UA; Tucson) Environmental Research Laboratory, spoke about new research investigating the fate and transport of pathogens via bioaerosols from biosolids land application. Pepper indicated that in ongoing, preliminary tests, positive control experiments have shown a very high incidence of pathogen indicators whereas experimental runs with biosolids have detected virtually none. (For more information on the UA research, see the May/June 2003 issue of the *Biosolids Technical Bulletin*.)

*continued on page 3*



District of Columbia Water and Sewer Authority

The conference included technical tours of area facilities such as the Blue Plains Advanced Wastewater Treatment Plant, in Washington, D.C. Blue Plains is the world’s largest advanced wastewater treatment plant and has a design capacity of 370 million gallons per day.

## Refine Your Public Communication Skills

Could you explain water- and wastewater-related issues clearly to a class of 8th graders (the level at which most newspapers are written)? These issues are on the media’s and public’s minds more often these days, and they need more information and reassurances about the water environment. In order to help the public understand these important and sometimes contentious issues, water quality experts need to be able to discuss them in plain English.

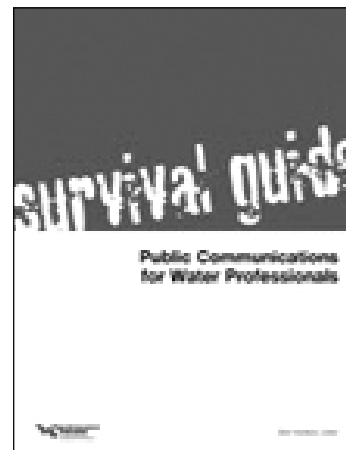
So, to help water and wastewater professionals, public information

officers, and managers at public and private organizations communicate effectively with the public, the Water Environment Federation (WEF) is sponsoring a “Survival Communications for Water Professionals” workshop in Irving, Texas, on June 6. Workshop topics will include public relations, communications tools and strategies, face-to-face interactions, advisory committees, media interaction, and conflict resolution. Attendees also will receive a copy of WEF’s *Survival Guide: Public Communications for Water Professionals*.

The *Survival Guide*’s editor and

primary contributors will lead the workshop. Speakers include **Sheri Wantland**, manager of the Pacific Northwest Clean Water Association (Beaverton, Ore.); **Robert Adamski**, vice-president of municipal infrastructure programs at Gannett Fleming Engineers (Camp Hill, Pa.) and incoming chair of

WEF’s Public Education Committee; **Bjorn von Euler**, director of corporate communications at ITT Industries (White Plains, N.Y.); **Steve Frank**, public information officer at Denver’s Metro Wastewater Reclamation District; **Joe Haworth**, head of the



Public Information Office at the Sanitation Districts of Los Angeles County (Whittier, Calif.); and **Linda Kelly**, public and employee services division manager at Clean Water Services of Washington County, Ore.

The registration deadline is May 28. To register, call (800) 666-0206 [(703) 684-2452 outside

the United States and Canada] and select menu option 2. For more information about this or other WEF workshops, call WEF Conference Programs Manager **Renee M. Mantei** at (703) 684-2473 or send e-mail to [rmantei@wef.org](mailto:rmantei@wef.org).

# Heroes

**W**illie Nelson sings about how cowboys are his heroes. I like cowboys too, but my heroes are the Water Environment Federation (WEF) members who encourage students and young professionals to become active in WEF and their Member Associations (MAs).

I was a member of the science club in high school, and during National Engineers Week in 1958, a guest speaker came to our meeting and told us about opportunities in environmental engineering (then called sanitary engineering). He invited me to an Engineers Week dinner, where several speakers talked about the rewards associated with environmental engineering careers. I was impressed when several engineers were recognized for their service to the industry.

In college two years later, my chemistry professor asked whether anyone was interested in a part-time

several environmental professionals who encouraged and mentored me throughout my career. My employer enabled me to attend WEFTEC for the first time in 1974, and that opened up a whole new world of opportunities to join national committees, present technical papers, work on manuals of practice, and expand my knowledge while networking with peers.

As a WEF officer, I encounter many more heroes while attending



From the  
**PRESIDENT**

North American MA meetings. **Gabriel Meunier**, for example, is an active member of Réseau Environnement, the Quebec MA, and deeply involved in the Paul-Gérin-LaJoie Technical School (Outremont, Quebec, Canada), which offers water and wastewater treatment classes. The school has full-scale, state-of-the-art water and wastewater treatment pilot plants for use in

training students, who can become certified operators when they graduate. The school's successes clearly can be attributed to Gabriel.

**Pen-Chi (PC) Chiang**, professor

and director of the Graduate Institute of Environmental Engineering at National Taiwan University (Taipei) and member of the WEF Board of Directors, is another of my heroes. Dr. Chiang involves his graduate students in all aspects of environmental engineering and encourages them to become WEF members. Through PC's leadership, his students are improving the environment and quality of life for Taiwan's 6 million residents.

**Jim Clark**, WEF's immediate past president, also is my hero. He recognized that young adults were under-represented at WEF and made it a priority during his presidency to attract more students, young professionals, and college and university leaders to our organization. He and **Don Francisco**, professor and director of the University of North Carolina (Chapel Hill) Department of Environmental Sciences and Engineering undergraduate program and chair of WEF's Students and Young Professionals Committee, enabled the committee to organize several outstanding events for students and young professionals at WEFTEC.02. The committee currently is planning even more for WEFTEC.03.

Throughout the organization, MAs are reaching out to students and young professionals, who are becoming active in committees and planning regional seminars. During my travels, I've observed that the Texas, New England, New Jersey, and New York MAs all have excellent programs for students and young professionals, and I'm sure many other MAs also have active programs.

WEF has many more heroes than I can possibly list. You know who you are. Keep up the good work. The Federation is strong and viable due to your efforts.

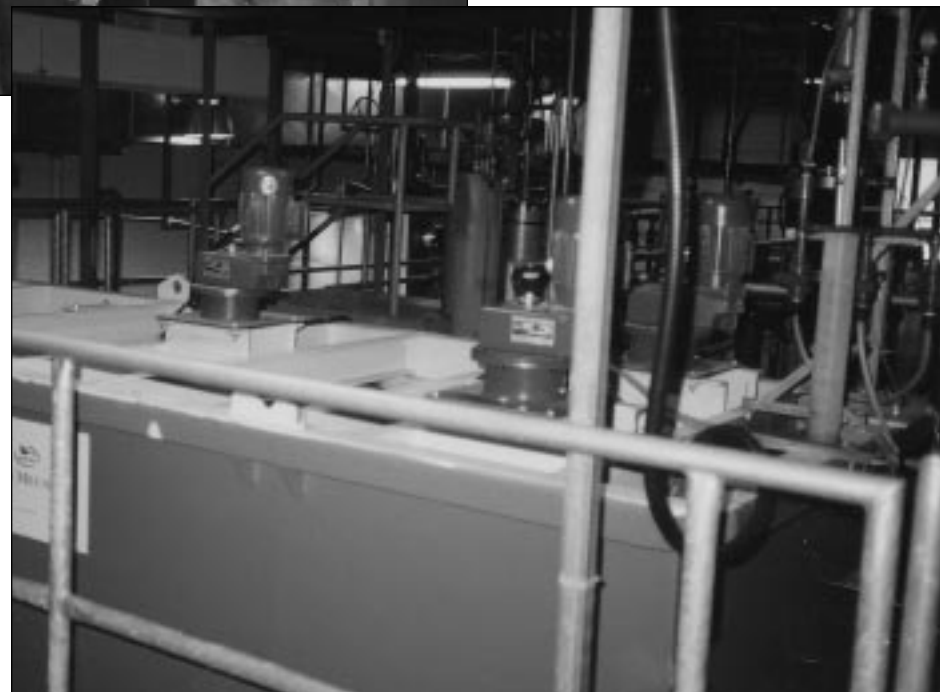
**Robert T. McMillon**  
WEF President



WEF President **Robert McMillon** (center) visits **Gabriel Meunier** (far left) and students at the Paul-Gérin-LaJoie Technical School in Outremont, Quebec, Canada.

job at the new wastewater treatment plant's laboratory. Recalling the Engineers Week dinner, I raised my hand. The rest is history. More than 40 years later, I still work in the environmental field and enjoy every moment. I have never regretted my career choice — and it began when an environmental engineer reached out to me.

I've been a WEF and Texas MA member since 1962, and while serving on various committees, I've met



The school uses full-scale, state-of-the-art water and wastewater treatment pilot plants to train students.

## Is Your Security Library Complete?

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(CA1100HL)

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## WEF HIGHLIGHTS

News for Members of the Water Environment Federation

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## Biosolids Conference *continued from page 1*

During the opening general session, speakers introduced strategies for building better public awareness, sang the profession's praises — literally — and took a look at evolving biosolids issues. **Mark Lang**, chair of the WEF Residuals and Biosolids Committee (RBC), expressed the need to pique the public's interest about the environmental benefits of biosolids and encourage them to learn more about both biosolids and WEF. He pointed out the success of other organizations' campaigns in educating children about the benefits of environmental protection. "You can't throw an aluminum can in the trash anymore without having a kid tell you to recycle it," he noted.

The Residuals and Biosolids Committee, working with WEF's Public Education Committee, plans to draft a communications plan that targets not only the public but also legislators and other elected officials.



Back River Wastewater Treatment Plant

*The Back River Wastewater Treatment Plant in Baltimore serves more than 1 million customers. Its egg-shaped anaerobic digesters and six circular high-rate digesters have a combined capacity of more than 9 million gallons.*

Then, the "Fecal Light Opera Company" presented its premiere performance of *A Long and Winding Road: A Musical Tribute to Biosolids*, directed by **Bill Toffey**, biosolids utilization manager for the Philadelphia (Pa.) Water Department and an RBC member. Toffey led a troupe of fellow biosolids professionals through several parody songs, such as "Making Poopie" and "Sludge Man." The audience also got into the act, joining the cast of 11 to sing "We Are Family" by "Sister Sludge." In the words of one audience member: "It was classic Toffey!"

After the performance, keynote speaker **Gordon Wolman**, a professor at the Bloomberg

School of Public Health and the Whiting School of Engineering at Johns Hopkins University (Baltimore), presented a retrospective of how wastewater and biosolids management have affected public health and life in the Baltimore area. He joked that "one of the most significant environmental achievements is the ability to eliminate *sludge* and with it *sanitary engineers*."

On a more serious note, Wolman outlined several constants that exist in the biosolids field even when circumstances vary wildly:

- major issues never change,
- the structure used remains the same,
- policy tension exists and will not go away,
- technology is continuously improving,
- the values attached to an issue change over time, and
- the actors in the arena change all the time.



Lori Stone

The joint conference was sponsored by the Water Environment Federation (WEF; Alexandria, Va.), the American Water Works Association (Denver, Colo.), and the Chesapeake Water Environment Federation (Laurel, Md.).



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## WEF to Hire New Senior Executive

The Water Environment Federation (WEF) has created a new senior executive position. This person will be a member of the executive leadership team, report to the executive director, and help maintain the technical quality of conferences, government and public affairs activities, publications, training materials, workshops, and other technical programs and activities.

Key responsibilities include

- advising the executive director, senior staff, and volunteer leaders on all technical matters and forums, including manuals of practice, Web sites, technical committees, and public policy documents and statements;
- developing technical program initiatives;
- reviewing the management and implementation of all Federation programs with technical elements;
- serving as technical liaison with the Water Environment Research Foundation and other foundations, associations, government agencies, the media, and the corporate community; and
- serving as WEF's spokesperson on technical issues with the media, other associations, the public, regulators, and public policy decisionmakers.

The ideal candidate will have an engineering or scientific background; 10 or more years of professional technical field experience in public-sector water or wastewater issues, with a demonstrated track record of success, innovation, and initiation of change; and significant knowledge of water-related environmental issues.

WEF will begin reviewing resumes and interviewing candidates as early as April 1 and plans to fill the position before WEFTEC.03 in October. For a more detailed job description or the position's professional requirements, contact WEF Human Resources at (703) 684-2444, or access the WEF Web site at <http://www.wef.org> and click on "Jobs."

## Need Information? Try the Linda Hall Library

The Linda Hall Library of Science, Engineering, and Technology (Kansas City, Mo.) is a great resource for water environment professionals. It houses numerous Water Environment Federation (WEF) conference proceedings and publications, including books, magazines, technical bulletins, and journals, some of which date back to the 1920s. You can check the library's online catalog, LEONARDO, on the Web at <http://www.lindahall.org>.

The Linda Hall library contains more than 1 million volumes, including books, journals (more than 47,000 titles), conference proceedings, specifications and standards, papers from technical meetings, patent specifications, government-contracted technical reports, and geological and topographic maps. The collection is strong in civil



Linda Hall Library of Science, Engineering, and Technology

*The Linda Hall Library of Science, Engineering, and Technology contains many Water Environment Federation documents and publications.*

engineering, sanitary engineering, water supply, bacteriology, chemistry, and pollution control. In addition, the collections of the American Public Works Association (Kansas City, Mo.), the American Academy of Arts and Sciences (Cambridge, Mass.), and the Engineering Societies Library (New York) have been transferred to the Linda Hall Library.

To help you find what you're looking for, the Linda Hall Library has search services and document services, which will deliver an article, paper, or other document via e-mail, fax, FedEx, or regular mail. For more information, see the library's Web site at <http://www.lindahall.org> or call (816) 363-4600 or (800) 662-1545.

# Wanted: New Employees

The water environment field is facing an employment crisis. A large portion of the workforce is approaching retirement, and many municipalities, state and federal regulatory agencies, engineering firms, and other organizations anticipate that this crisis might pose challenges to meeting the water environment needs of the early 21st century, according to a collaborative initiative of the Water Environment Federation (WEF) Public Education, Professional Development, and Students and Young Professionals Committees.

Part of the challenge is that training is more complex than it used to be because water and wastewater treatment staff need to have more expertise in computer technol-

ogy, said **Linda Kelly**, a WEF member and the public and employee services division manager at Clean Water Services, a wastewater and stormwater utility in Washington County, Ore. "The biological process of cleaning wastewater hasn't changed all that much, but the technology associated with pushing the technology to new limits to meet new strict [water quality] standards has," she said.

Kelly noted that her organization struggles with trying to recruit young employees. "Many of our employees came to work for us in the early 1970s with the passage of the Clean Water Act and new community initiatives for solving public health issues. Before they walk out the door with all that knowledge, we must



recruit employees and overlap the outgoing with the incoming for knowledge transfer."

To help combat this problem, the WEF Public Education, Professional Development, and Students and Young Professionals Committees have launched a water environment careers initiative. As part of this initiative, they have developed *Make Waves: Career Paths in the Water Environment*, a brochure/poster and curriculum for high school and college students, to try to attract more young people into the field.

The curriculum is adapted from a school-to-career curriculum developed by the Metropolitan Water District of Southern California (Los Angeles) and the San Diego County Water Authority (San Diego, Calif.). It includes a CD-ROM that provides a virtual tour of a treatment plant and interviews with its workers. The curriculum will be released to 15,000 teachers at the National Science Teachers Association Conference in Philadelphia on March 27-30.

The goal is to promote water-related careers and attract the best and brightest young people to the field, according to **Lorraine Loken**, senior manager of public education at WEF. Part of the problem that the initiative is working to address is that water environment science, research, and technical careers generally are perceived as less attractive and dynamic than some other

high-tech fields, according to Loken.

The brochure, which unfolds into a poster, appeals to students' passion for nature, spirit of discovery, mechanical curiosity, concern for public health, or interest in engineering. It also notes the many opportunities available in the water environment field, ranging from lab technician to environmental lawyer.

The New England Water Environment Association (NEWEA) also has been working to address this issue. Although "facilities are losing their knowledge base and having to bring people in and train them," there has been little outreach lately, noted **Ellen Frye**, a member of the NEWEA Public Education Committee. She said that this type of educational outreach might be "the shot in the arm that the field needs."

The brochure/poster and curriculum can be used by teachers, guidance counselors, water and wastewater utility staff, and others to reach out to local students. These tools can serve as "a colorful, intriguing way to highlight utilities' job announcements," Kelly noted. All of them direct students to WEF's Web site for more information on water environment jobs, with links to the Web sites of some member associations and municipalities.

For more information, see <http://www.wef.org/careerpaths>.

## Oregon Teachers Glad for Support

The Water Environment Federation (WEF) and the Pacific Northwest Clean Water Association (PNCWA; Beaverton, Ore.) had a popular exhibit at the Oregon National Science Teachers Association Conference, which more than 2800 teachers attended in Portland, Ore., last November. Many teachers developing water quality programs said they were thrilled to receive free expert support (*Water Source* books purchased by PNCWA's Public Education Committee and *Surface Water* education packets and other materials contributed by WEF). Co-chairs **Bruce Clouser** (City of Salem) and **Chuck Loeffel** (Clean Water Services) staffed the exhibit at the 3-day event.



**Bruce Clouser**, co-chair of the Pacific Northwest Clean Water Association, offers materials to teachers at the PNCWA/WEF booth at the Oregon National Science Teachers Association Conference.

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Exhibition: June 1 - 3, 2003  
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# MAKE WAVES

## In Your Community

**WEF will help you motivate young minds toward considering a career in the water quality industry!**

### Make Waves: Career Paths in the Water Environment

Brochure | Order No. HC1201HL | Member/List Price: \$0.49\*  
Folds out into an 11" x 17" poster that entices students to make a difference by choosing a career path in the water environment. Future needs and the growth of the water quality field are discussed. Descriptions emphasize the public health and environmental protection role of water professionals.

### Make Waves: Career Paths in the Water Environment

School Curriculum | Order No. ZS1301HL | Member/List Price: \$49.00\*  
This School-to-Career curriculum provides 12 hands-on activities to entice secondary students to consider careers in the water environment. Ideal supplemental curriculum product for guidance counselors, secondary educators, and water environment professionals who give tours and presentations at schools. Adapted from "Water Works!" a school-to-career curriculum developed by the Metropolitan Water District of Southern California and the San Diego County Water Authority.

Check out: [www.wef.org/careerpaths](http://www.wef.org/careerpaths)  
for more information on how to motivate young minds in your community!

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**Phone:** 1-800-666-0206 or 1-703-684-2452  
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\*Plus postage, handling and applicable taxes

# WEF Long-Range Planning Committee Presents Findings on Governance

The Water Environment Federation (WEF) Long-Range Planning Committee presented its findings on WEF governance issues to the Executive Committee on Feb. 28.

In January and early February, the committee conducted a survey on governance and received 209 responses from WEF and Member Association (MA) leaders. The survey addressed such issues as whether various constituencies are represented adequately in governance, whether WEF can respond

rapidly to changing circumstances and market considerations, and whether there should be more management, direction, and oversight of committee activities.

The Long-Range Planning Committee will share key survey results at upcoming WEF/MA Exchange Meetings. Committee members will discuss which survey issues garnered much agreement and some actions that already are under way to address these issues. They also will seek feedback on priorities and be able to answer members' questions.

In addition, the committee mem-

bers will discuss WEF's Strategic Plan, the Governance Issues Statement, and the three primary governance issues they have identified: decision making, Board of Directors representation, and Executive Committee membership.

For information on the WEF/MA Exchange Meetings, visit the WEF Web site at <http://www.wef.org> and click on "Events," or see p. 7 for the remaining 2003 meetings. For more information about the committee's efforts, contact **Michael Read** at [jmread@hdrinc.com](mailto:jmread@hdrinc.com).

# State Winners of Stockholm Junior Water Prize to Be Announced

The U.S. state winners of the Stockholm Junior Water Prize (SJWP) will be announced on May 9. The SJWP is the most prestigious international youth award for a water science research project. Its purpose is to increase students' interest in water-related issues and research and to sensitize them to global water challenges.

State winners are eligible to compete in the U.S. National SJWP competition, which will be held June 5-7 in conjunction with WEF's "Survival Communications for Water Professionals" workshop in Irving, Texas



(see the article on p. 1). A panel of distinguished water quality experts will announce the national winner on June 7. The international winner will be announced during World Water Week in Stockholm, Sweden, Aug. 10-16.

State SJWP winners are selected from regional winners in grades 9-12. The Water Environment Federation and its Member Associations organize the U.S. regional, state, and national SJWP competitions, with support from ITT Industries (White Plains, N.Y.) and the Coca-Cola Co. (Atlanta, Ga.). For more information, access <http://www.StockholmJuniorWaterPrize.org> on the Web.

# NBP Receives \$1 Million in Congressional Funding

In February, Congress passed an omnibus spending bill for fiscal year 2003 that included \$1 million for the National Biosolids Partnership (NBP; Alexandria, Va.). This fully funds NBP so it can continue to encourage more wastewater treatment agencies to implement environmental management systems (EMSs) for their biosolids programs. The partnership's EMS is a continuous improvement program designed to help treatment


agencies establish environmentally sound, sustainable biosolids management practices that go beyond regulatory compliance, promote public participation, and gain public acceptance.

NBP is an alliance of the Water Environment Federation (WEF), the Association of Metropolitan Sewerage Agencies (Washington, D.C.), and the U.S. Environmental Protection Agency. WEF members were instrumental in working with congressional



leaders to continue funding the EMS program.

NBP's 2002-2003 annual report, which discusses the EMS program and other partnership activities, was presented at the WEF Residuals and Biosolids Specialty Conference held in Baltimore, Md., on Feb. 19-22 (see article on p. 1) For more information on the EMS program or to download the annual report, access <http://www.biosolids.org> on the Web.



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## New WEF Life Members

Please join WEF in congratulating the following people, who have attained the outstanding achievement of Life Membership.

Member/Member Association	Join Date
<b>Kenneth L. Zippler</b> <i>New Jersey Water Environment Association</i>	1962
<b>Thomas G. McSwiggin</b> <i>Illinois Water Environment Association</i>	1964
<b>Robert A. Kriger</b> <i>California Water Environment Association</i>	1967
<b>Richard E. Sayers, Sr.</b> <i>Michigan Water Environment Association</i>	1967
<b>Gnanamony Thabaraj</b> <i>Florida Water Environment Association</i>	1967
<b>Hugh H. McMillan</b> <i>Illinois Water Environment Association</i>	1968



## Changing your Address? or your WEF Membership Information?

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- 2 Membership
- 3 Access Your Member Profile

Follow the instructions on the screen and change your membership information

**WEF Membership Services**  
Phone: 1-800-666-0206 or +1-703-684-2452  
Fax: +1-703-684-2492

# Executive Committee Adopts Partnership Criteria

To ensure that all partnerships with other organizations are productive, the Water Environment Federation (WEF) Executive Committee approved operating criteria for such partnerships during its meeting in late February. These criteria will be used to help WEF and its Member Associations determine whether to continue existing partnerships and whether to enter into future ones.

Association partnerships became popular in the late 1990s as a method for optimizing limited financial and human resources without sacrificing member services. Numerous associations entered into partnerships to benefit the members they had in common, avoid duplicating effort, and improve the overall nonprofit community's economy through cooperation rather than competition.

Unfortunately, many of these partnerships began without careful regard for each organization's strategic interests. Some partnership agreements also were not specific about the actual work to be accomplished and the standards by which to measure progress.

So, recognizing that partnerships can be useful tools when used appropriately, the Executive Committee established specific criteria for ensuring that they are beneficial. The new

# Operations Challenge Rules Released

Beginning in March, the preliminary *Rules & Regulations* for Operations Challenge 2003, the Water Environment Federation's competition showcasing the skills of North American wastewater collection and treatment personnel, will be distributed to past participants and Member Association contacts. The competition will take place at WEFTEC.03 in Los Angeles.

This 16th edition of the *Rules & Regulations* reflects competitor and member suggestions for developing events that truly demonstrate excellent wastewater treatment operations, according to **Steve Harrison**, WEF's Operations Challenge coordinator.

Registration for Operations Challenge begins June 1. The rules are available on the WEFTEC Web site at <http://www.weftec.org/program/eventsummaries.htm>, or they can be requested by sending e-mail to [opschallenge@wef.org](mailto:opschallenge@wef.org).

*At WEFTEC.02, Virginia's Absolute Pressure team replaces the rotating assembly.*



criteria define a partnership as "a sustained relationship based on strategic interests," rather than simply an agreement to work together on certain projects or activities. It should be dynamic, the Executive Committee noted, and reflect a sustained commitment to operate in concert in various areas — with an acknowledgement of some give and take.

The new criteria require all partnership agreements to

- clearly articulate the partners' complementary strategic interests;
- identify the benefits to be derived by each partner;
- identify specific projects or activities unique to their mutual interests;

- include a specific business plan for each project or activity;
- provide measurable performance standards for each project or activity;
- note the protocol for periodically reviewing each project and activity, as well as the agreement itself; and
- include a clear review and ratification process for extending the agreement.

At press time, WEF planned to re-evaluate existing partnership agreements based on these criteria. For more information about WEF's partnership agreements, contact WEF Executive Director **Bill Bertera** at (703) 684-2400, ext. 7300.

## What Safety Info Do You Need?

Please participate in the Water Environment Federation (WEF) Safety Needs Survey. The WEF Safety and Occupational Health Committee is trying to determine what safety information the water and wastewater treatment field needs and what types of safety activities the committee and WEF as a whole should focus on. The committee would greatly value your input, especially if you are involved in the administration of your organization's safety program.

The survey can be accessed on the Web at <http://www.zoomerang.com/survey.zgi?30NGGM0TRJP36EEE8ASQJ8GC>. (There also is a direct link from an announcement on WEF's Web site at <http://www.wef.org>.) If you would like a direct link sent to you via e-mail or a hard copy mailed to you, or if you have questions, contact **Stacy Passaro** at (703) 684-2400 x7060 or [spassaro@wef.org](mailto:spassaro@wef.org). Survey results will be available to all participants on request, and a summary of the results will be published in a future issue of *Highlights*.

# 18,704 attendees can't be wrong

76th Annual Technical Exhibition and Conference

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# Industry-Specific Resources Available from U.S. EPA

Do you know what major pollution issues are associated with each industry sector? The U.S. Environmental Protection Agency (EPA) has developed Sector Notebooks, a consolidated source of compliance-related information for specific industry sectors. The series is intended for a variety of users, including government agencies, facility managers, researchers, educators, and environmental professionals.

Each Sector Notebook provides an overview of the industry, including its size, geographic distribution, organizational structure, products, economic trends, and financial status; and describes the manufacturing process, including inputs of raw materials and pollution outputs. It summarizes chemical releases to the environment and applicable federal statutes and regulations; and it covers compliance and enforcement history, major legal actions, and government and industry initiatives for compliance assurance. Each notebook also includes pollution prevention opportunities and resource materials and contacts.

Unlike some resources that are organized by pollutants, the notebooks provide a holistic, "whole facility" approach by integrating the manufacturing process, applicable regulations, and other relevant environmental information. The Sector Notebooks help users

- Design comprehensive, common-sense environmental protection measures for specific industries;
- Build a foundation for developing holistic solutions to environmental problems;
- Perform research on an industry

- and its environmental regulations;
- Understand compliance issues;
- Develop industry-specific training sessions and programs;
- Determine probable cause for a lawsuit, citation, or penalty; and
- Create and improve innovative pollution prevention programs.

Sector Notebooks that are available include:

- Profile of the Agricultural Chemical, Pesticide, and Fertilizer Industry
- Profile of the Agricultural Livestock Production Industry
- Profile of the Electronics and Computer Industry



The agricultural chemical, pesticide, and fertilizer industry is among the industries profiled by the U.S. Environmental Protection Agency's Sector Notebook series.

- Profile of the Fossil Fuel Electric Power Generation Industry
- Profile of the Inorganic Chemical Industry
- Profile of the Iron and Steel Industry
- Profile of the Lumber and Wood Products Industry
- Profile of the Metal Mining Industry
- Profile of the Non-Fuel, Non-Metal Mining Industry
- Profile of the Oil and Gas Extraction Industry
- Profile of the Organic Chemical Industry
- Profile of the Pharmaceutical Industry

- Profile of the Printing Industry
- Profile of the Pulp and Paper Industry
- Profile of the Water Transportation Industry

Government Series:

- Profile of Local Government Operations
- Federal Facilities (draft)

Electronic copies of Sector Notebooks may be downloaded free of charge from EPA's Web site at <http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/index.html>. Hard copies can be ordered for a fee of \$6-\$25 through the Government Printing Office Web site at <http://bookstore.gpo.gov>, or by calling (202) 512-1800. Federal, state, tribal, and local government employees and libraries can order free copies through EPA's National Service Center for Environmental Publications at <http://www.epa.gov/ncepihom> or by phone at (800) 490-9198.

For the construction industry in particular, see EPA's Construction Industry Compliance Assistance (CICA) Center at <http://www.CICA.center.org>. CICA is an environmental compliance assistance Web site for contractors, builders, and developers.

The site is organized by environmental topic, with separate sections for stormwater, solid waste, hazardous waste, air, wetlands, endangered species, and green building.

CICA offers a compliance summary feature that helps identify which environmental rules apply to a specific construction project. If you tell CICA what your project involves, you can obtain a list of topics and information designed especially to fit your project.

For more information about CICA, contact **Seth Heminway** at EPA at [heminway.seth@epa.gov](mailto:heminway.seth@epa.gov) or (202) 564-7017 or **Paul Chalmer** at [paulc@ncms.org](mailto:paulc@ncms.org) or (703) 995-4911.

## Member Association CALENDAR

**April 30-May 1**  
Arizona Water and Pollution Control Association  
Tucson, Ariz.  
(928) 717-9905 • fax: (928) 717-9910

**April 30-May 2**  
Montana Water Environment Association  
Missoula, Mont.  
(406) 443-5388 • fax: (406) 443-5656

**May 4-7**  
Florida Water Environment Association  
Tampa, Fla.  
(561) 641-3402 • fax: (561) 641-3472

**May 4-9**  
New Jersey Water Environment Association  
Atlantic City, N.J.  
(201) 670-5576 • fax: (201) 251-4573

**May 6-8**  
México — Agua Y Ambiente, A.C.  
Monterrey, Nuevo León, Mexico  
+525-6884953 • fax: +525-6010963

**May 6-8**  
México — Sociedad Mexicana de Aguas, A.C. (SMAAC)  
Monterrey, Nuevo León, Mexico  
+528-1150262 • fax: +528-1293160

**May 6-8**  
México — Sociedad Mexicana de Aguas de Occidente, A.C. (SMAO)  
Monterrey, Nuevo León, Mexico  
+523-6425637 • fax: +523-6422699

**May 6-8**  
México — Sociedad Mexicana de Aguas de Oriente, A.C. (SMADO)  
Monterrey, Nuevo León, Mexico  
+521-2274075 • fax: +521-2275265

**May 18-21**  
Central States Water Environment Association  
Rockford, Ill.  
(612) 866-0783 • fax: (612) 866-0373

**May 18-21**  
West Virginia Water Environment Association  
Weston, W.Va.  
(304) 729-9139 • fax: (304) 755-2636

**May 19-22**  
Kentucky-Tennessee Water Environment Association  
Owensboro, Ky.  
(615) 354-9222 • fax: (615) 353-9499

**May 19-25**  
Puerto Rico Water & Environment Association  
Rio Grande, Puerto Rico  
(787) 767-3130 • fax: (787) 751-4257

**May 20-21**  
Oklahoma Water Environment Association  
Oklahoma City, Okla.  
(918) 584-0347 • fax: (918) 584-3783

**May 28-30**  
Indian Environmental Association  
Location to be determined  
+912-22617313 • fax: +912-22611961

## Anaerobic Digester Technology Applications in Animal Agriculture – A National Summit

Exhibition Dates: June 2-4, 2003  
Conference Dates: June 3-4, 2003  
Hilton Raleigh North Hotel  
Raleigh, North Carolina USA



### For more information

	Online	<a href="http://www.wef.org/conferences">www.wef.org/conferences</a>
	Fax on Demand	1-800-444-2933 or +1-703-684-2401 and select: • Document #2401
	E-mail	<a href="mailto:confinfo@wef.org">confinfo@wef.org</a>
	Phone	1-800-666-0206

## Is Nutrient Trading for You?

Those interested in implementing a nutrient trading program in accordance with the U.S. Environmental Protection Agency (EPA) Water Quality Trading Policy released Jan. 13 may be interested in five related research projects sponsored by the Water Environment Research Foundation (WERF; Alexandria, Va.).

"WERF took the lead on watershed trading in the mid-1990s, when we began working on the issues and started a research program," noted **Glenn Reinhardt**, the Foundation's executive director. "Watershed-based trading could help organizations nationwide meet water quality objectives and save hundreds of millions of dollars each year."

In watershed-based trading, trades among different sources affect the same waterbody or stream segment, so that water quality standards are maintained or achieved throughout the trading area and contiguous waters, according to the EPA policy. The policy addresses such trading issues as permitting requirements, antibacksliding provisions, the development of water quality standards, federal National Pollutant Discharge Elimination System (NPDES) permit regulations, and the development of total maximum

daily loads (TMDLs) and water quality management plans. It also provides guidance to states and tribes for implementing regulations on trading nutrients, sediments, and other water-related pollutants.

WERF's five EPA-funded trading demonstration projects address various trading approaches across the United States. (The American Water Works Association Research Foundation [Denver, Colo.] also provided funding for these projects.) The projects provide real-life experience in developing trading markets, analyze the benefits of trading, and note the regulatory implications. The Maryland project, for example, showed that a wastewater utility could save between \$9 million and \$12 million annually by participating in a trading program rather than using conventional nutrient removal processes.

The following project reports are available:

- *Nitrogen Credit Trading in Maryland: A Market Analysis for Establishing a Statewide Framework* (Stock No. 97IRM5E)
- *Nitrogen Credit Trading in the Long Island Sound Watershed* (Stock No. D00300)
- *Phosphorus Credit Trading in the Cherry Creek Basin: An Innovative Approach* (Stock No. D003100)

- *Phosphorus Credit Trading in the Fox-Wolf Basin: Exploring Legal, Economic, and Technical Issues* (Stock No. D00312)

- *Phosphorus Credit Trading in the Kalamazoo River Basin: Forging Nontraditional Partnerships* (Stock No. D00311)

WERF also is developing useful trading implementation tools (such as *Common Currency for TMDL Commodities: Trading Infrastructure*, Project No. 02-WSM-1) and plans to publish *Watershed-Based Trading: A Guide for the Wastewater Community*, a compilation and analysis of trading issues based on the five demonstration projects and other lessons learned.

WERF subscribers may request one complimentary copy of each document by calling (703) 684-2470 or accessing the WERF Web site at <http://www.werf.org> and clicking on the "Product Catalog" link. Additional copies are available at \$10 each, and CD-ROM versions are available for \$15 each. Nonsubscribers may order WERF publications through the Water Environment Federation (<http://www.wef.org>) or IWA Publishing (<http://www.iwapublishing.com>) Web sites.

The full text of EPA's nutrient trading policy is available on the Web at <http://www.epa.gov/owow/watershed/trading.htm>.

## WERF Research Projects

Two new research project reports are available from the Water Environment Research Foundation (WERF):

- *Water Reuse: Understanding Public Perception and Participation* (Project No. 00PUM1) provides guidance for water resource professionals trying to incorporate stakeholder priorities successfully into water reclamation programs. The framework presented in this report can help water industry professionals better address the social and political complexity of adopting potable and nonpotable water reuse and recycling as part of a sustainable community strategy.

- *Measuring Activated Sludge Influent Properties and Model Parameters* (Project No. 99WWF3) will help treatment plants use activated sludge models to reduce capital and operations and maintenance costs associated with oversized systems. The report presents simple methods for measuring critical wastewater characteristics and activated sludge model parameters and applying them in the calibration of activated sludge simulators. The information presented also will improve the design and operation of nitrogen and biological nutrient removal systems.

For more information or to request a project report, call (703) 684-2470 or visit the WERF Web site at <http://www.werf.org> and click on "Project Database Search."

### Upcoming W E F E V E N T S

For more information, call (800) 666-0206 (from the U.S. and Canada) or (703) 684-2452 (elsewhere in the world), fax (703) 684-2492, or e-mail [confinfo@wef.org](mailto:confinfo@wef.org). For instant information via Fax-on-Demand (FOD), call (800) 444-2933 or (703) 684-2401 and reference the FOD number listed below. To receive a list of all documents by fax, enter 1100.

#### WASTEWATER SECURITY TRAINING WORKSHOPS

**April 30–May 2**  
Kansas City, Mo.

**May 14–16**  
Seattle

For information, call (703) 684-2400, ext. 7090, or send e-mail to [securityreg@wef.org](mailto:securityreg@wef.org).

#### W E F / M A E X C H A N G E M E E T I N G S

**May 1–3**

South Dakota Water  
Environment Association  
Spearfish, S.D.

**May 15–17**

British Columbia Water  
and Waste Association  
Vancouver, British Columbia,  
Canada

For more information,  
access <http://www.wef.org>.



## 2003 Paul L. Busch Award

The Paul L. Busch Award distinguishes rising stars in the fields of science and engineering who make significant contributions to water quality research and its practical application. Winners are awarded a grant of \$100,000 to continue their work and to take risks as they explore new directions and benefits.

Applicants may self-nominate or be nominated by a third party. Submissions must be postmarked no later than **June 1, 2003**. Application should be addressed to: Water Environment Research Foundation, ATTN: The Paul L. Busch Award, 635 Slaters Lane, Suite 300, Alexandria, VA 22314.

For more information about the award, including eligibility and application guidelines, visit our website at [www.werf.org](http://www.werf.org) and click on "Endowment."



## WHAT'S NEW?

Send your water  
quality-related news  
to Allison Torres  
at [atorres@wef.org](mailto:atorres@wef.org)  
or fax to (703) 684-2492.

