NONPROFIT ORG.
U.S. POSTAGE
PAID
SUBURBAN MD
PERMIT NO. 3905

WEF HIGHLIGHTS

INSIDE

Looking Outward 2

Army Engineers' Work Key to Restoring Iraqi Wetlands 4

Paul L. Busch Research Grant Awarded to Bruce Logan 7

NOVEMBER 2004 • VOL. 41 NO. 9 News for Members of the Water Environment Federation

WEF, PennWell Sign Cross-Marketing Partnership Agreement

The Water Environment Federation (WEF; Alexandria, Va.) entered into a cross-marketing partnership with PennWell Corp. (Tulsa, Okla.), a publishing and convention management firm. The partnership will focus on the joint efforts of a cross-market WEFTEC®, the Federation's annual technical conference and exhibition, and Water and Wastewater Europe (WWE), PennWell's annual event for European water and wastewater industries.

"WEF and PennWell are both leaders in the water quality community, de-dicated to keeping water quality pro-fessionals at the leading edge of tech-nology," said **Bill Bertera**, WEF executive director. "This new partnership is an example of the Federation's plan to partner with other leading water quality organizations to meet our commitment of preserving and enhancing the global water environment."

WEFTEC is the largest water quality conference and exhibition in North America and Water and Wastewater Europe serves a similar purpose for European water professionals. The cross-marketing partnership will provide financial incentives for WEF members, conference attendees and exhibitors on both sides of the Atlantic.

Marketing activities outlined in the agreement include exchange of exhibit booth space, cross mailings, exhibitor discounts and logo identification on cross marketing materials and on each organization's Web site(s).

"We are excited about the opportunity to work with the Water Environment Federation," said **Bob Smock**, vice president of the Business and Industrial Group at PennWell.

The co-marketing campaigns began at WEFTEC.04 in New Orleans, La. (Oct. 2-6) targeting regional, national, and international audiences for Water & Wastewater Europe 2005 in Milan, Italy (June 28-30) and WEFTEC.05 in Washington, D.C. (Oct. 29-Nov. 2).

"Water & Wastewater Europe is dedicated to providing the latest technologies for drinking water and wastewater treatment. This agreement between WEF and PennWell will provide an avenue for American equipment manufacturers to spread the word about their technologies and services to the European market," said **Nicholas Christy**, publisher of PennWell's *Water and Wastewater International.*

For more information visit www.wef.org or contact **Jack Benson** at jbenson@wef.org.

WEF Hat Travels to Combat Zone

WEF's message reaches even remote areas, such as Kabul, Afghanistan. 1st Lt. James Lobb, a U.S. Marine Corps intelligence officer, proudly wears a WEF hat as he works in Kabul. WEF salutes the friends, family, and loved ones of our members who are serving in our armed forces around the world.

WEF, GEI Project to Develop Water Science Curricula

The Water Environment Federation (WEF; Alexandria, Va.) and the Global Tele-Community Education Initiative (GEI Project; Dallas, Texas) have signed an agreement to work together to develop a K-12 water science curricula, lesson plans, and training and collaboration CDs in environmental science and public health. Topics include: prevention of

continued on page 6

Looking Outward

Despite the hurricanes that savaged the southeastern United States this fall, WEFTEC®.04 in New Orleans attracted more than 16,200 registered attendees and 833 paid exhibitors — including 38 attendees from countries outside North America. More than 300 meetings, workshops, and seminars took place during the conference, several of which were sponsored by dozens of other environmental and public health associations attending the event.

A lot happened that week (besides the usual exchanges of information and expertise). The Water Environment Federation (WEF), with strong support from the Association of Metropolitan Sewerage Agencies and American Water Works Association, launched a campaign to remind people why water and wastewater infrastructure funding is important. WEF also announced significant financial gifts to Water for People and the Water Environment Research Foundation as well as a new cross-marketing agreement between WEF and PennWell Corp., a publishing and convention management firm. The WEF Membership Committee began simplifying our membership structure and created a group membership option for public utilities and other organizations. The House of Delegates discussed new strategies for the Federation, and the Committee Leadership Council brainstormed ways for committees to work together more efficiently.

Most importantly, our 76-year-old association awakened to its full potential (and related responsibilities) as a leader in the global water community. This was evident during the opening general session on Monday morning.

During my career as an association executive, I have attended at least 30 annual meetings of seven associations. This is the first in which its volunteer leaders acknowledged and emphasized how important our members' work is for the rest of the world. President **Larry Jaworski** and President-Elect **Lynn Orphan** spoke not about past accomplishments and organizational issues, but about the future and the public health and environmental work to be done both at home and abroad.

From the
EXECUTIVE DIRECTOR

They spoke of our global responsibility to share our expertise with others struggling to establish safe drinking water and reliable wastewater services and to learn from those experiences they looked outward, acknowledging the challenge of meeting growing needs in a world of diminishing resources.

Their messages underlined those of our keynote speaker, Dr. **Peter Gleick**, who spoke movingly about the world of water as it was, is, and can become. They also put into context the remarkable efforts of Dr. William Mitsch, one of two 2004 Stockholm Water Prize winners, and those of the U.S., Canadian, and international winners (from Japan) of the 2004 Stockholm Junior Water Prize.

We have taken to calling WEFTEC "the water quality event" and it is surely that. A look at the breadth and depth of this year's technical and educational program and the 2005 call for papers reveal a decided movement in that direction. But something more has happened. The voice for global public health and environmental protection has a new sound: yours.

Bill Bertera
WEF Executive Director

Reviewers Wanted for Pumping Station Manual

The Water Environment Federation (WEF; Alexandria, Va.) Technical Practice Committee is looking for reviewers to help revise *Manual of Practice FD-4, Design of Wastewater and Stormwater Pumping Stations.* The manual will be reviewed according to the process outlined in the *Technical Practice Committee Procedures Manual,* and volunteer reviewers must agree to follow both the development process and schedule.

If you would like to be a reviewer, contact **Steve Harrison**, WEF project manager, at sharrison@wef.org.

WEF HIGHLIGHTS
News for Members of the Water Environment Federation

Editor
Staci-Jill Sands

Contributors
Lori Burkhammer • Teresa Evans

Publications Committee Chair
David James

WEF Executive Director
William Bertera

WEF Officers
Lynn Oprhan, President
Kennedy Jenks Consultants, Reno, Nev.
J. Michael Read, President-Elect
HDR Engineering Inc.
Mohamed Dahab, Vice President
Professor of Civil Engineering at the University of Nebraska (Lincoln)
Mike Godfrey, Treasurer
Alabama Power Co.
Lawrence Jaworski, Past President
Greeley and Hansen LLP, Upper Marlboro, Md.

Water Environment Federation

WEF Highlights (ISSN 1087-3384) ©2004; published by the Water Environment Federation. Executive and Editorial offices at 601 Wythe St., Alexandria, Va. 22314-1994 USA; Fax: (703) 684-2492, Phone: (703) 684-2400, e-mail: ssands@wef.org. Design and production by Dyer Design, Alexandria, Va. Letters Policy: *WEF Highlights* appreciates the interest and values the views of members who take the time to send us their comments. Letters must be exclusive to *WEF Highlights,* must be signed, and must include the writer's address and home and business telephone numbers. Because of space limitations, those published are subject to abridgement. POSTMASTER: send changes of address forms to *WEF Highlights,* 601 Wythe St., Alexandria, Va. 22314-1994 USA. Permission is granted by the Federation to reproduce material herein provided that appropriate credit is given.

Printed on recycled paper

Letters to the Editor

A True Expression of the Season

Editor's Note: The following letters were written to utilities in need by **Jack Dozier**, executive director of the Georgia Water & Pollution Control Association (GW&PCA), and **Fred Yandle**, current chair of the South Carolina Section of the American Water Works Association (Denver, Colo.), in response to the recent violent storms that have battered the United States.

Volunteer Emergency Response Program

As our utilities cope with one barrage after another of nature's fury, I want to remind you that help is as close as your computer or your phone. If your system suffers damages from the storms that you can't deal with internally, remember that there are "sister" utilities all over the state that are willing and able to pitch in and help. GW&PCA is proud to serve in the role of connecting those in need of help with those who can provide it. If you find yourself in need of help from another utility, e-mail or call us with your needs. Please be as specific as possible, and be sure to give me the name of your contact person, including e-mail (if functional), phone, and cell phone.

If your water or wastewater facilities become disabled and you need outside assistance in order to restore service, contact our office as soon as possible. We have established a volunteer emergency response program, and may be able to provide manpower, technical assistance, laboratory assistance, construction equipment, and some materials and supplies to help you to return to full operation as quickly as possible. We have a list of volunteers that can help if the need arises, and we will coordinate the emergency response program to link up the needs for assistance with the resources available.

As we learned during previous disasters, patience is a virtue. Please do not send people or equipment into any affected area without prior notification. Your well-intentioned offer of assistance could actually interfere with local efforts to respond, so please coordinate with us before sending help in unannounced. Let's all hope that the storms do not have the type of impact that we have experienced in past years, but also be prepared to provide relief and assistance if they do. Thanks for your willingness to participate in our Emergency Response and Disaster Relief program. Thanks for your help.

Jack C. Dozier, P.E., CAE, Executive Director
Georgia Water & Pollution
Control Association
Marietta, Ga.

More Help Available

I cannot begin to imagine what things must be like in Florida following the [four] back to back devastating storms that your state has faced. Our thoughts and prayers are with everyone.

Sitting on the sidelines, as we are in South Carolina, it is difficult for us to imagine how we might be of any assistance to you, your communities, and utilities that are simply trying to put one foot in front of another today. I'm sure it goes without saying that mutual aid agreements are in place in Florida and working. However, if there is anything that we can do to help in this effort, please let us know.

Jack, this goes for our neighbors in Georgia as well. Let us know if we can help.

Fred L. Yandle Jr., Director
Water Division
Department of Public Utilities
Orangeburg, S.C.

2005 Conference Series

Disinfection 2005

Sharing Disinfection Technologies: Water, Wastewater, and Biosolids

February 6–11, 2005
Phoenix Marriott Mesa & Mesa Convention Center
Mesa, Arizona USA

Held in Partnership with the Arizona Water Pollution Control Association (AWPCA), American Water Works Association (AWWA), and the International Water Association (IWA)

Online www.wef.org/conferences
E-mail conferences@wef.org
Phone 1-800-666-0206

DON'T JUST FIND YOUR NICHE.

THRIVE IN IT.

Subscribe to a WEF Technical Bulletin and learn how to perform better in your area of water quality.

- Biosolids Technical Bulletin
- Industrial Wastewater
- Utility Executive
- Water Environment Laboratory Solutions
- Water Environment Regulation Watch
- Watershed & Wet Weather Technical Bulletin

Excel in your niche with more options, strategies, ideas... and results!

phone: 1-800-666-0206
fax: 1-703-664-2428
email: csc@wef.org

Special rates are available for WEF members.

Army Engineers' Work Key to Restoring Iraqi Wetlands

[Editor's Note: This article is reprinted with permission from the U.S. Army.]

The Mesopotamian Marshlands, once among the world's largest wetlands, have been reduced to a fraction of what they once were. Named for its location, primarily between the Tigris and Euphrates rivers, Mesopotamia is regarded by some as the cradle of civilization. The 5000-year-old culture of the Madan, or Marsh Arabs, developed the first alphabet and prospered within these 21,000 km^2 (8000 mi^2).

The U.S. Agency for International Development (USAID), an independent federal government agency that funds development projects in many countries, is leading the effort to restore these marshlands. The U.S. Army Corps of Engineers (USACE) is helping USAID and the Iraqi Ministry of Water Resources (MoWR) develop a water management model that will aid efforts to reconstruct Iraq's historic water flow system and restore Iraq's marshes. Both were destroyed by the Ba'athist regime.

Before their destruction, the Mesopotamian Marshlands spanned an area roughly twice the size of the Florida Everglades. They were known for their biodiversity and cultural richness. The marshes were home to millions of birds, fish spawning and nursery areas, and various agricultural crops. The devastation seen under the hand of the former regime has been compared to the deforestation of the Amazon.

After putting down a rebellion by the Marsh Arabs at the end of the Gulf War, the Iraqi government set its full wrath upon the group, burning towns, killing livestock, and making marshland drainage a top priority. An estimated 150,000 people were displaced during this time; some were forced to relocate as many as 18 times. By 1999, the marshlands had been reduced to 7% of their original state. Many endemic species were lost, a natural filter system for waste and pollutants into rivers and the Persian Gulf was devastated, and an entire culture rich in history was destroyed. The area was in dire need of structure and rebuilding efforts.

To help the remaining marshland population and support other U.S. efforts to secure Iraq's infrastructure, USAID turned to the Corps' Hydrologic Engineering Center (HEC) for their expertise in modeling water management in large watershed systems. HEC is responding by developing a Reservoir-Simulation Model (HEC-ResSim). This model will provide real-time simulation to help U.S. officials and the new Iraqi leadership make smart operational decisions to maintain and update the country's complex system of dams and canals.

"After the invasion, Iraq's dam and infrastructure system was intact, but the institution was in disarray," said HEC Director **Darryl Davis**. "The Ministry of Water's headquarters building was burned and their ability to manage the complex system of dams and barrages was significantly compromised. This model will provide modern technology for use in both day-to-day operation decisions, and long-term water resource management studies."

A training program between HEC and MoWR will integrate the model into Iraqi officials' decision-making process. Once put in place, the timely data from the Tigris and Euphrates rivers it provides can be used by other organizations.

"We expect this model to have far-reaching impacts," said **Dan Barcellos**, chief of water management systems at HEC. "Not only will it support the restoration efforts in the Iraqi marshlands, but we anticipate its use to support water management operations and studies for water resources planning and development."

HEC is developing the Reservoir-Simulation Model in two phases. Initially, a preliminary water balance model will cover the Tigris and Euphrates rivers to the lowest barrage in the system, considerably above the delta region. The first phase established a relationship between HEC and other Iraqi groups working with the marshlands. It also successfully developed the concept of the water control system with the help of two skilled MoWR engineers who contributed field experience and local knowledge to the team while working with HEC on site in Davis, Calif. Phase 1 was completed in November 2003.

The second phase of development is underway and at press time was expected to be complete by the end of the year. Phase 2 will develop the model in more detail and extend the lower bound to marsh areas. It will also add structure and develop data sets useful in long range planning and studies of alternative operations.

"The Phase 2 model will provide the Ministry with the capability to make detailed assessments of the consequence of alternative reservoir releases prior to issuing operation instructions to dam operators," Davis said. "Also, other Iraqi agencies, such as the Ministry of Environment, and nongovernmental agencies interested in Marsh restoration, such as the U.S.–based Iraq Foundation, will be able to use the model in support of their studies and activities."

The partnership between USACE and USAID is designed to eventually restore the Mesopotamian Marshland ecosystem through better management of the nation's water infrastructures and natural resources. The Hydrologic Engineering Center is the designated center of expertise for USACE in water resources management. An organization of the USACE Institute for Water Resources, HEC is also supervising a water management team and coordinating with other water resource interests and marsh restoration partners in Iraq. Additional relationships are also being forged by USAID with numerous organizations to provide reflooding, health services, education, and economic assistance to marsh dwellers.

Nani Gould is writer for the U.S. Army Environmental Center.

Army-Led Project Brings Clean Water to Villages in Marine-Run Zone

[Editor's Note: This article is reprinted with permission from the U.S. Army.]

The 4500 residents of Teabon and Qutnyah villages in Iraq have never had their own potable water source. Soldiers with the Army's 1st Battalion, 16th Infantry Regiment, working in support of 1st Marine Division, stepped in a few months ago to fix that problem.

During **Saddam Hussein**'s reign, Teabon's Mahal Tribe and Qutnyah's Assaf Tribe were neglected and denied clean water.

"The previous regime didn't see fit to give these people water," said Army Lt. Col. **Thomas S. Hollis**, the battalion's commander. "The sheiks asked for assistance but to no avail."

The sheik of Teabon had always been an outspoken critic of Hussein and his regime. Once the Coalition ousted Hussein's notorious Ba'ath Party, the leaders of the two villages sought help.

"We began this series of water projects about 5 months ago," Hollis explained. "We knew we needed to get it done."

Up until now, the villagers have been hauling buckets of cooking, bathing, and drinking water from the Euphrates River and irrigation canals. Both sources are highly polluted, causing many birth defects among younger villagers.

"Not having freshwater makes the people very susceptible to disease," Hollis explained.

Bidding for the projects ended early this year and construction on new water purification and distribution sites began almost immediately.

"Of the $7 million we have to spend on civil military operations in our area of operations, $165,000 went to Teabon and $145,000 went to Qutnyah," said Army Capt. **Jeffrey E. Flach**, the battalion's civil affairs officer.

Army Lt. Col. Thomas S. Hollis, commander of 1st Battalion, 16th Infantry Regiment, talks with some leaders in Teabon, Iraq, about their freshwater facility. The battalion has been working closely with this village and Qutnyah to help provide potable drinking water sources. Photo by Pfc. Brandon E. Loveless

Army Lt. Col. Thomas S. Hollis, commander of 1st Battalion, 16th Infantry Regiment, talks with some leaders at Qutnyah, Iraq, at about their freshwater facility. The battalion has been working closely with this village and Teabon to help provide potable drinking water sources. Photo by Pfc. Brandon E. Loveless

The two companies in charge of the projects were awarded the contracts based on their reputations and "price tags."

"A lot of the companies bidding were asking for $200,000 or $300,000," Flach added. "These two companies came in with very reasonable offers."

continued on page 6

GEI Project *continued from page 1*

communicable diseases, alternative energy exploration, water purification, and watershed and ecosystem purification.

Developed in 1999 by the John C. Ford Program Inc. (Dallas, Texas) under grants from the U.S. Department of Commerce TOP, WK Kellogg Foundation (Battle Creek, Mich.), Microsoft Corp. (Redmond, Wash.), EDS Foundation (Plano, Texas), EDS Corp. (Plano, Texas), Bank of America Foundation (Charlotte, N.C.), and others, GEI Project's mission is to end education, digital, gender, and cultural divides in order to foster world peace. The networked global learning community, using low-bandwidth live video and PC-to-PC voice and data-sharing, connects underserved K-12 youth and teachers worldwide.

Leading scientists, engineers, academics, and executives help GEI Project develop real-world science and engineering projects for its students and teachers. WEF will serve as lead partner for water science.

"As a recognized leader on water quality issues, WEF has a responsibility to seek out partnerships that will assist with our mission to educate the public and stakeholders about the importance of water and its direct link to public health," said **Bill Bertera**, WEF's executive director. "The joint venture with GEI Project will strengthen the foundations for global knowledge transfer and capacity building needed to sustain growth and maintenance of the workforce of scientists, engineers, and educators needed in the future."

GEI Project currently reaches 52 countries, operating through international education hubs at public and private schools, community learning centers, museums, and universities. For more information about the partnership, access www.wef.org.

Call for Proposals

The California Bay-Delta Authority Science Program is seeking to invest between $18 and $20 million in projects that develop new knowledge regarding how water use and management activities interact with, and affect, key aquatic species and environmental processes across spatial and temporal scales. The geographic areas of interest are the San Francisco Bay estuary and the Bay-Delta System. To access detailed information about this opportunity, visit their Web site at www.solicitation .calwater.ca.gov, or call (877) 408-9310.

Water Environment Federation

Visit www.wef.org for the latest in water quality news.

Literature Review Authors Wanted

The *Water Environment Research* journal staff is looking for authors for the annual Literature Review issue. Water quality professionals are needed to write reviews of the literature published on the following topics:

- Economics;
- Hazardous waste storage, disposal, remediation, and closure;
- Health effects associated with wastewater treatment, disposal, and reuse;
- Petrochemicals; and
- Power production waste.

The first reviews will be due in spring 2005, and reviewers typically serve on the Literature Review Committee for 5 years. If interested, send a brief resume and a letter indicating your preferred topic(s) to **Lorna Ernst**, staff liaison, by e-mail (lernst@wef.org).

Marine-Run Zone

continued from page 5

At press time, nearly 5 km of pipe had been installed in Teabon and 7 km in Qutnyah. Both water facilities — built from the ground up — are state of the art and similar to those found in the United States. Flach visited both sites to check up on progress.

"There's not too much room for improvement at either site," he said. "Now the focus is getting the water distributed to the homes."

According to Hollis, that will take time. "This project is not something that will serve just for now," he said. "It'll serve in the future as well. As the area expands and more families migrate here and more buildings pop up, freshwater will be available."

Cpl. Paula M. Fitzgerald is in the 1st Marine Division of the U.S. Army.

New EMS Handbook Available

The U.S. Environmental Protection Agency's (EPA's) Office of Wastewater recently released *An Environmental Management Systems Handbook for Wastewater Utilities.* Intended as a practical, "hands on" guide to developing an environmental management system (EMS), the publication also provides sample documents and materials made available by utilities that already have implemented the system.

"EPA has been pleased to support the voluntary adoption of EMSs by wastewater utilities and other public entities for a number of years and our support will continue," said **Benjamin H. Grumbles**, EPA's acting assistant administrator for water.

The handbook can be accessed at the Water Environment Federation Web site (www.wef.org/utilitymanagement).

Have an opinion on a *Highlights* story? Send your letter to the editor at ssands@wef.org.

Microbial Fuel Cell Researcher Wins Paul L. Busch Award

The Water Environment Research Foundation (Alexandria, Va.) Endowment for Innovation in Applied Water Quality Research presented the 2004 Paul L. Busch Award to **Bruce Logan**, Ph.D., at its annual subscriber luncheon at WEFTEC.04. Logan was selected for his research on microbial fuel cells and their application in the wastewater treatment process. The Paul L. Busch award carries with it a $100,000 research grant that will aid Logan in furthering this work.

Bruce Logan

Logan and his research team have discovered that electricity can be produced from wastewater using bacteria in a microbial fuel cell, while treating wastewater without using additional chemicals. He has created a new hybrid technology whereby wastewater is efficiently treated anaerobically using a bacterial biofilm growing on one electrode of the fuel cell. This new technology could lead to a process that not only reduces operating costs for wastewater treatment but also creates excess electricity production at treatment plants.

"It's a remarkable discovery with the potential to significantly impact conventional wastewater treatment," says **Glenn Reinhardt**, executive director at WERF. "By creating a treatment process that generates a product with market value, such as electricity, the substantial costs of building, operating, and maintaining wastewater facilities may be offset."

Also notable is the potential of Logan's research to create viable, self-sustaining wastewater treatment facilities for developing countries. Although industrialized nations can afford to operate conventional wastewater treatment facilities, more than a billion people in the world lack adequate sanitation and cannot afford to build or operate traditional wastewater treatment plants. In order to make wastewater treatment more affordable for all nations, such new processes and approaches to treatment must be developed.

Logan is the Stan and Flora Kappe professor of environmental engineering at Pennsylvania State University (State College), and director of Penn State's H2E (Hydrogen Energy) Center and the College of Engineering's Environmental Institute.

The WERF Endowment for Innovation in Applied Water Quality Research presents the Paul L. Busch Award each year at WEFTEC®, the Water Environment Federation's technical exhibition and conference. For more information on the award, visit www.werf.org/funding/endowment.cfm.

Recruiters of the Year

Please join WEF in congratulating our top recruiters and this year's inductees in the Diamond and VIP Circle.

Top Recruiters of the Year

1st Place
Rocco J. Maiellano
New Jersey Water Environment Association

2nd Place
Jennafer S. Piper Covington
Water Environment Association of Texas

Diamond Circle — current members who have recruited 100 or more members since 1986

Leonard Ashack II – Indiana WPCA
Joseph Bonaccorso – New Jersey WEA
Robert Button – New England WEA
Daniel Cardellichio – New Jersey WEA
Paul Chadik – Florida WEA
* **Sylvan Coles** – Kansas WEA
James De Block – New Jersey WEA
* **Robert De Block** – New Jersey WEA
Edith Eldeen – Hawaii WEA
A. Roy Fowler – Georgia W&PCA
Elizabeth Haffner – New England WEA
Robert Holbrook – Alabama WEA
John Lagrosa – New Jersey WEA
John Lewis – Pacific Northwest PCA
Rocco J. Maiellano – New Jersey WEA
Charles McElroy – Palestinian WEA
Robin Mulhall – New Jersey WEA
Robert O'Dette – Kentucky-Tennessee WEA
* **Henry Penley** – New Jersey WEA
Frank Post – North Carolina WEA
Walter Saukin – New York WEA
Alexander Baron Sheffield – Louisiana WEA
Kenneth Stoller – New Jersey WEA
Constantine Yapijakis – New York WEA
Amy Zander – New York WEA

**2003-2004 Inductee*

VIP Circle — current members who have recruited 50-99 new members since 1986

Russell Adams – New England WEA
Alex Ainsworth – Louisiana WEA
Bruce Berdanier – Ohio WEA
Dale Butler – Rocky Mountain WEA
Thomas Cooke – California WEA
Robert Corbitt – Georgia W&PCA
* **Jennafer S. Piper Covington** – WEA of Texas
Robert Cutone – New England WEA
Thomas Decker – Missouri WEA
Litton De Jarnette – Georgia W&PCA
Joseph Del Greco - New England WEA
Jack C. Dozier – Georgia W&PCA
Richard Eustace – New Jersey
* **Robert C. Fischer** – New Jersey WEA
Charlene Givens – Indiana WPCA
Rhonda Harris – WEA of Texas
Franklin S. Hartman – New Jersey
Michael Jefferson – Missouri WEA
Eduardo Jordao – Brazil ABES
Vishwas Kale – Indian Environmental Association
Kenneth Kerri – California WEA
Richard C. Kunze – New Jersey WEA

continued on page 8

Putting It in Perspective

This Wisconsin utility reminds all passerby what its primary goal is: protecting public health and the environment.

Recruit *continued from page 7*

Lorene Lindsay – Missouri WEA
Michael Lyons – New Jersey WEA
William McElhaney – Indiana WEA
James Moore III – Alabama WEA
* **Christine M. Morton** – New Jersey WEA
Marilyn O'Neal – Chesapeake WEA
Richard Paesani – West Virginia WEA
Albin D. Pagorski – Central States WEA
Spyros Pavlosthathis – Georgia W&PCA
John Ringelestein – Iowa WPCA
John Ruggiero – New York WEA
Ronald Schuyler – Rocky Mountain WEA
Yvonne Schwab – California WEA
Willard Sexauer – Central States WEA
Tommy Short – Indiana WPCA
Edward Sinclair – Virginia WEA
* **Robert Sokolowski** – New Jersey WEA
Michael E. Solla – New Jersey WEA
Joseph Soporowski, Jr. – New Jersey WEA
Bruce P. Stevens – New England WEA
Timothy M. Tigue – Ohio WEA
Billy G. Turner – Georgia W&PCA
Cesar M. Vincenty – Puerto Rico WEA
A. Scott Weber – New York WEA
Richard G. Weigand – West Virginia WEA
Arthur White – North Carolina WEA
Jane Lee Winkler – Ohio WEA

** 2003-04 Inductee*

WEF
the water quality event

CALL FOR ABSTRACTS
& conference announcement
2005
washington dc

78th Annual Technical
Exhibition and Conference
Washington Convention Center
Washington DC USA
Conference > Oct 29–Nov 2
Exhibition > Oct 30 – Nov 2

For abstract submission guidelines and detailed information, visit www.weftec.org/program/call_for_abstracts.htm
Submission deadline: December 2, 2004

WEF PRESS
for the Water Quality Professional
McGraw Hill

WEF and McGraw-Hill Bring You WEF Press!
Water Quality Resources from the Technical Information and Publishing Leaders

Three new WEF Manuals of Practice
GIS Implementation for Water and Wastewater Treatment Facilities – MOP 26
Order No: WPM401H WEF Member Price: $69.00*
ISBN: 0-07-145706-9 List Price: $[illegible]*

Financing and Charges for Wastewater Systems – MOP 27
Order No: WPM407H WEF Member Price: $69.00*
ISBN: 0-07-145304-0 List Price: $85.00*

Upgrading and Retrofitting Water and Wastewater Treatment Plants – MOP 28
Order No: WPM403H WEF Member Price: $69.00*
ISBN: 0-07-145303-2 List Price: $85.00*

*plus postage, handling and applicable taxes

Shop the WEF Bookstore at www.wef.org
Phone: 1-800-666-0206 or 1-703-684-2452
E-mail: pubs@wef.org