

## Top Story

### WEFTEC.08 Preview

Chicago hosts largest annual water quality event of its kind

From Oct. 18 to 22, water quality professionals from around the world will convene at WEFTEC.08 in Chicago. As the largest annual water and wastewater exhibition in the world, WEFTEC will feature more than 1000 exhibiting companies showcasing the latest developments in water quality. [Read more](#)



Some highlights of WEFTEC include the large exhibit floor (left), WEFTEach (upper right), and the Student Career Fair (lower right). Photos are from WEFTEC.07 in San Diego, taken by Oscar Einzig. [Click for larger images.](#)

### WEFTEC.08 Is Almost Here: Are You Ready?

Planning to attend WEFTEC.08? Click [here](#) to find out everything you need to know about attending the conference. Learn about how you can win an iPod Touch by visiting the Publications Booth, a special McGraw-Hill book signing event, the new Online Schedule Planner, complete event registration information, and all aspects of this year's conference from numerous *WE&T* articles.

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**Helping to Clean the World's Waterways, One Child at a Time**  
WEF, IWA Kick Off World Water Monitoring Day in Washington, D.C.



*More than 100 guests and 150 students joined WEF and IWA Sept. 18th to kick off activities for World Water Monitoring Day 2008 at Hains Point in Washington, D.C. [Click for larger image.](#)*

World Water Monitoring Day (WWMD) began Sept. 18 at Washington, D.C.'s Hains Point with blue skies, warm weather, and high cresting waves from the Potomac and Anacostia rivers. To mark the event coordinated by the Water Environment Federation (WEF; Alexandria, Va.) and the International Water Association (IWA; London), more than 150 local school children would test the health of the Potomac River later that day. [Read more](#)

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## Every NanoSilver Lining Has Its Cloud

A candid look at this year's SJWP winner

**Katy Wood**, 17, of Acworth, Ga., received the third annual ITT Award for Excellence in Student Water Journalism. She was commissioned by the Water Environment Federation (WEF; Alexandria, Va.) to write an article on another talented teen, Stockholm Junior Water Prize Winner, Joyce Chai. Click [here](#) to read the article.

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## Middle School Student Wins Prize for Water Faucet Invention

Elizabeth Rintels, 12, of Keswick, Va., has won the grand prize in the national *Going Green Challenge*. By Kids For Kids (BKFK; Stamford, Conn.) in partnership with The Weather Channel launched the *Going Green Challenge* in October 2007, which challenged America's youth to create new ecological ideas for the changing planet.

Elizabeth was chosen as winner, out of thousands of entries, for her invention "The Water Watcher," a smart device designed to monitor and measure water usage, according to a BKFK press release. [Read more](#)

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# Front Page

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## Web Site Resources

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### Features

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WEFTEC provides an expansive technical program and the opportunity for in-depth examination of water-related issues. This year there are 115 technical sessions that run the gamut from facility operations to leading-edge research. Technical topics that will be covered include nutrient removal, biosolids and residuals, collection systems, membranes, stormwater management, water reuse, public communications, industrial issues, odor and air emissions, utility management, sustainability, disinfection, microconstituents, watershed management, computer applications, global perspectives, and decentralized systems. The conference also offers 30 full- or half-day workshops with interactive, hands-on, and detailed discussions on Oct. 18 and 19.

For more information, see [www.weftec.org](http://www.weftec.org).

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#### **WEFTEC.08 Is Almost Here: Are You Ready?**

Planning to attend WEFTEC.08? Here are some important details about the conference, and some tips for getting the most out of it.

#### **Publications Booth**

Visit Water Environment Federation (WEF; Alexandria, Va.) editorial staff, receive complimentary issues of WEF's periodicals and newsletters, and participate in the WEFTEC.08 Publications Contest at the WEF Publications Booth. Enter the contest for a chance to win an iPod Touch. Stop by during exhibit hall hours, McCormick Place, Booth 30001, Hall B.

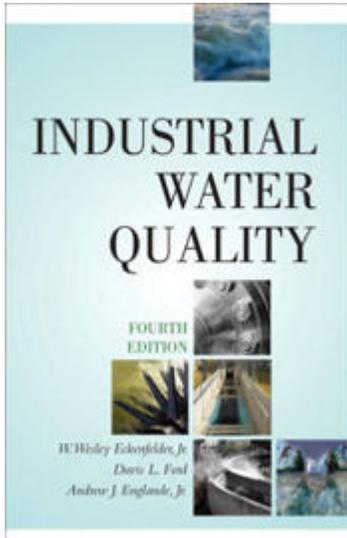
#### **Get Your Copy of *Industrial Water Quality*, 4th Edition Signed at WEFTEC.08**

Don't miss the chance to meet and have your book, *Industrial Water Quality*, 4th Edition signed by McGraw-Hill authors W. Wesley Eckenfelder Jr., Davis L. Ford, and Andrew J. Englande Jr.



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*Click for larger image.*

On Oct. 21 from 4 p.m. to 5:30 p.m., all WEFTEC attendees are invited to the Center of Excellence, the level 2 lobby of the North Building, to enjoy the book signing, refreshments, and the opportunity to discuss the new edition and the Dec. 4 Industrial Water Quality Workshop planned by the authors.

McGraw-Hill Companies will host the event to honor the WEF Press partnership, which has allowed WEF to expand the scope of books offered, to provide new editions as industry resources, and to reach a global audience with the most-up-to-date information on water quality.

*Industrial Water Quality*, 4th Edition is the newest publication from WEF Press, and it provides the reader with information on controlling and reducing industrial wastewater effects on the environment and public health. The authors have a combined experience record of more than 120 years in solving industrial wastewater problems. The book can be purchased through McGraw-Hill, WEF, or Amazon.

### Online Schedule Planner

Utilize the new [Online Schedule Planner](#) during the conference. This tool allows attendees to search for technical sessions, workshops, and facility tours to create a personalized schedule. Save the personal planner and download the schedule to your PDA or print it out.

### Event [Registration Information](#)

- There is limited exhibit space remaining for WEFTEC.08. Don't miss the opportunity to exhibit your products and services to an audience of more than 20,000 industry professionals. Contact Marc Parsont at [mparsont@wef.org](mailto:mparsont@wef.org), toll-free at 1-866-4WEFTEC (1-866-493-3832), or 703-684-2434 (for global calls).
- Attendees and exhibitors can **register online** prior to and during the conference, and can pick up their badges onsite. Registrants who have paid in full will receive an express badge pick-up confirmation by e-mail, or badge by mail no later than Oct. 10.
- This year you can print your badge at the event using **Express Badge**. Express badge kiosks will be located at the Sheraton Chicago, Hilton Chicago, and Hyatt Regency Hotels Oct. 18–19. In McCormick Place, express badge pickup counters will be located in the main lobby registration area, level 1 of the south and north Buildings, and on level 2.5 of the south building. Main registration will be located in the Grand Concourse of McCormick Place throughout the conference.
- Preregistered attendees and exhibitors who receive an **e-mail confirmation** after submission, please print the e-mail and bring it with you to pick up your name badge and badge holder onsite. Your confirmation page will be scanned and your badge will be printed.



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- **Photo ID** (driver's license, passport or government issued photo ID) will be required at check-in.
- [Register now](#) for the event, and see registration fees, workshop rates, and facility tour schedule. Note that workshops and facility tours must be purchased separately and are not included with the regular conference program.

## More WEFTEC Resources

- See an [overview schedule](#) of the conference, the [exhibitor directory](#), and the [product showcase](#).
- To receive the proceedings CD-ROM that is included in some registration categories, attendees must visit the proceedings counter in the WEF bookstore to have their badge scanned.
- For more information about receiving **Professional Development Hours (PDHs)**, **Continuing Education Units (CEUs)**, or **Contact Hours** for time spent in the exhibit, click [here](#).

Read more about the upcoming WEFTEC in articles featured in the August and September issues of [WE&T](#).

### [August WEFTEC.08 Preview:](#)

- [Green Infrastructure in the Windy City](#): WEFTEC.08 workshop explores green infrastructure projects in Chicago
- [Meet John Anthony Allan, WEFTEC.08 Keynote Speaker](#)
- [Workshop Wonderland](#): WEFTEC.08 features 30 workshops, including the popular microbiology workshop

### [September WEFTEC.08 Preview:](#)

- [The Challenge of Limited Resources](#): WEFTEC.08 featured session examines water scarcity, distributed water management
- [Design on a Dime](#): Constructed wetlands offer low-cost nutrient removal option
- [Building on Basics](#): WEFTEC workshops, technical sessions provide basis for advancement
- [Commode Commandos Looking To Flush The Competition Again](#): Team HRSD and the CReWSers will challenge last year's winner

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## Helping to Clean the World's Waterways, One Child at a Time

WEF, IWA Kick Off World Water Monitoring Day in Washington, D.C.

World Water Monitoring Day (WWMD) began Sept. 18 at Washington, D.C.'s Hains Point with blue skies, warm weather, and high cresting waves from the Potomac and Anacostia rivers. To mark the event coordinated by the Water Environment Federation (WEF; Alexandria, Va.) and the International Water Association (IWA; London), more than 150 local school children would test the health of the Potomac River later that day. But the loud rumble of a skimmer boat slowly making its way along the waterfront gave a murky preview of what the kids might discover.

“Those skimmer boats you saw earlier pick up 600 tons of trash along D.C.’s waterways every year,” said Jerry N. Johnson, general manager of the Washington, D.C., Water and Sewer Authority to a crowd who attended the opening ceremony. This debris along with legacy pollution and discharge from an aging combined sewer system has given Washington some of the most impaired waterways in the United States, Johnson said. The city is investing millions in infrastructure upgrades, “but this is just the beginning,” Johnson said. “We will continue the process through education of the public and children especially.”



*Officer Snook from the U.S. Coast Guard Sea Partners Campaign and The Officer Snook Water Pollution Program visited with children at the WWMD event as a part of the U.S. Coast Guard exhibitor display. [Click for larger image.](#)*

Teaching children how to monitor their waterways is the central focus of WWMD, which kicks off a monthlong program where participants gather data on four parameters of watershed health: temperature, turbidity, dissolved oxygen, and acidity. The program is “primarily geared toward younger people because they are our future,” said Adam Zabinski, WEF president.

Children were among the 46,117 participants from 43 countries that took part in the WWMD program last year—a 61% increase over participation in 2006. This year, students from Kimball Elementary School (Washington, D.C.), Beth Tfiloh Dahan Community Day School (Pikesville, Md.), and Hebrew Day School (Silver Spring, Md.) joined the more than 50,000 people internationally that will participate in the 2008 WWMD program. WEF expects the number of participants to increase each year. “We want 1 million participants by 2010, and at the rate we’re growing we might reach it,” said Linda Kelly, managing director of Public Communications at WEF.

*During the WWMD event, participating children were shown how to test the water for temperature, acidity, clarity, and dissolved oxygen. Click for larger image.*



Some students want to help increase those numbers. “I think we should bring our Girl Scout troop next year,” said Emily Conway, a member of a Brownie troop in Montgomery County, Md., who came to participate in WWMD at Hains Point. Emily and her older sister, Elizabeth, said they found WWMD both informative and fun.

“We learned about water pollution and its impact,” Elizabeth said.

“I got to try on water boots,” Emily said. “They went up to my shoulders!”

In addition to gathering water quality data from the Potomac, students also walked with “passports” in hand to the exhibit booths of participating organizations such as the Naturalist Audubon Society (Chevy Chase, Md.) and the Potomac Conservancy (Silver Spring, Md.). These passports contained questions based on the presentations each organization made at their booths such as, “What is the difference between ‘point source pollution’ and ‘nonpoint source pollution?’” and “Which part of the tree or plant helps to absorb and filter stormwater?” When the students answered each question correctly, a sticker was added to their passport. Answering all the questions correctly meant they could get a colorful WWMD T-shirt.

By 11 a.m., Elizabeth’s and Emily’s passports were already half-filled.



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— *LaShell Stratton, WEF Highlights*

### Every NanoSilver Lining Has Its Cloud

A candid look at this year's SJWP winner

*Katy Wood*



**Katy Wood**, 17, of Acworth, Ga., received the third annual ITT Award for Excellence in Student Water Journalism for her exploration of the southeastern water shortage in her article, [“A Lack of Lakes: Georgia Water Crisis.”](#) As a 2008 graduate of Wheeler High School’s Center for Advanced Studies, Wood now attends Duke University. The award included a \$1000 scholarship from ITT Corp. (White Plains, N.Y.) and a trip to the 2008 Stockholm Water Symposium in Stockholm Sweden. She was commissioned by the Water Environment Federation (WEF; Alexandria, Va.) to write the following article on another talented teen, Stockholm Junior Water Prize winner, Joyce Chai.

*Photo courtesy of Karan Wood. Click for larger image.*

While her friends were going to the beach or the movies, Joyce Chai, 17, was donning her lab coat, culturing bacteria, and performing research that could protect them from a hidden threat. Almost every weekend of her senior year at Palos Verdes Peninsula High School (Rolling Hills Estates, Calif.), Chai conducted research on toxic nanosilver particles. Her dedication paid off when she was named the winner of the Stockholm Junior Water Prize (SJWP), a prestigious international award for young scientists co-sponsored by the Water Environment Federation (WEF; Alexandria, Va.) and the ITT Corp. (White Plains, N.Y.).

#### Inspired by a Hurricane

Chai first got interested in water-related issues after Hurricane Katrina, when she worked on finding a faster, more efficient way to purify water. In her sophomore year, she worked to find a way to purify water with natural coagulants. Background research for that project led her to new investigations the U.S. Environmental Protection Agency (EPA) was doing on nanoparticles, specifically nanosilver.

Nanosilver is used as an antibacterial agent in everything from toothpaste and odor-eating socks to water filtration systems. Chai set out to develop a technique for quantifying the toxicity of silver nanoparticles, and a way to assess the reliability of the consumer products containing them.

#### Finding a Lab and a Mentor

Initially, Chai contacted 30 different professors, seeking facilities to carry out her research. Only one professor responded: Eric M. V. Hoek of the University of California (Los Angeles). At first, he was



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skeptical about letting a high school student conduct experiments in his lab, but after working with Chai he became confident in her abilities. "My mentor [Hoek] was amazing," Chai said. "He gave me a key to the laboratory so that I could use the lab at my convenience."

Chai estimated she spent about 30 hours working every weekend from September 2007 to March 2008. "The major sacrifice that I made was [not] hanging out with my friends," Chai said. "Whenever they headed off to the beach, I was at the lab. Whenever they enjoyed a movie, I was at the lab. Whenever they ate dinner together, had a party, or hung out, I was at the lab. It was a little disappointing at first because I could never join in on the conversation [about things] that happened over the weekend. But, I would say that the sacrifice was worth it."

### Research Results

Chai's research revealed some alarming results. "My conclusion was that there is an increasing, logarithmic relationship between the concentration of nanosilver and its resultant toxicity," Chai said. "Even at a small concentration of 1.0 micromolar, there can be a toxicity of 50%, meaning that it kills 50% of the bacteria in 3 hours."

Chai's research also suggested that consumer products may not be as safe as people think. "Part of my study dealt with how reliable the consumer product was in creating an effective barrier between the consumer [or the] environment and the nanosilver," Chai explained. She concluded that "consumer products were not effective in creating that barrier."

Also, water purification methods believed to eliminate nanosilvers did not prove effective. "After [adding] nanosilver to the filtration system that I developed in my two previous years of research [a system that meets EPA standards], I found that nanosilver passes through the filters and enters the water that someone will later drink," Chai said.

### Significance

Now that Chai's research has gained attention within the scientific community, her results may make a difference in the way nanosilvers are used. EPA already regulates some products containing nanosilver but, Chai explained, "only ... consumer products that expressly say nanosilver is present for the purposes of disinfecting or ... to kill bacteria." So products containing nanosilvers can avoid regulation simply by not claiming that nanosilvers are included for their antimicrobial properties.

As to the impact that nanosilvers may have on health and the environment, Chai said, "[scientists] have done research on the toxicity of nanosilver to zebrafish embryos and found that the nanosilver [particles] diffuse through the chorion of the embryo. As a result, the embryo either goes through developmental deformations or die[s] from ... contact [with] the nanosilver." Additionally, Chai cautions, "if nanosilver from consumer products enters the wastewater treatment, it could kill some of the beneficial bacteria [intended] to digest the organic substances."

Chai hopes that her project will "increase awareness of a major problem in the consumer industry that will eventually have a devastating effect on the water field."

### Winning the Prize

As the U.S. winner of the SJWP, Chai and her science teacher traveled to the international competition at the World Water Week conference in Sweden. There, she beat out students from 31 other countries to

win a \$5000 scholarship and a crystal sculpture, awarded by HRH Crown Princess Victoria of Sweden at a royal banquet. “My favorite part of the competition was meeting people from all the different countries,” Chai said.

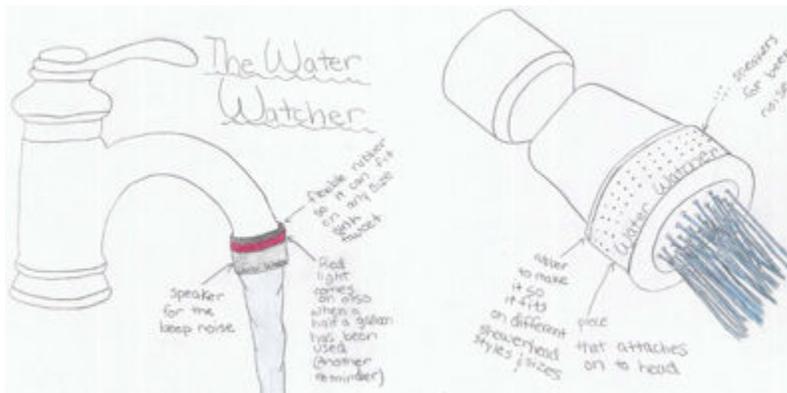
## Future Plans

Chai will soon begin her freshman year at Stanford University (Palo Alto, Calif.), where she plans to major in chemical engineering and continue her water research. She encourages other students to pursue their interests in science, and advises them to have open minds. “When you research, [things] ... rarely happen your way, she said. You always get surprises in the procedures, in your data, etc. — but in order to do research, you have to have an open mind ... to adapt to the obstacles you meet along the way.”

## Middle School Student Wins Prize for Water Faucet Invention

Elizabeth Rintels, 12, of Keswick, Va., has won the grand prize in the national *Going Green Challenge*. By Kids For Kids (BKFK; Stamford, Conn.) in partnership with The Weather Channel launched the *Going Green Challenge* in October 2007, which challenged America’s youth to create new ecological ideas for the changing planet.

Rintels was chosen as winner, out of thousands of entries, for her invention “The Water Watcher,” a smart device designed to monitor and measure water usage, according to a BKFK press release



Elizabeth Rintels, 12, of Keswick, Va. won the *Going Green Challenge* for her “Water Watcher” invention. Image courtesy of By Kids For Kids Company (Stamford, Conn.). [Click for larger images.](#)

After realizing how much water showers use and learning that reducing her shower time by only 1 minute would save approximately 3785 L (1000 gal.) of water each year, Rintels was driven to enhance awareness of water use and to find a smarter way to utilize the resource. She created “The Water Watcher,” a device that can be fastened to any faucet and signals a red light and sounds a beep every time 1.89 L (0.5 gal.) of water is used.



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"I was thrilled when I found out I'd won the BKFK *Going Green Challenge*," Rintels said, "At home, we try to use things more than once and recycle at the recycling center. We also try not to waste energy or water. It was this conservation awareness in my home that inspired 'The Water Watcher.'"

For winning the competition, Rintels received a \$10,000 cash prize and the opportunity to spend a day shadowing one of the ecological experts from Leonardo DiCaprio's [11th Hour Action Web site](#).

"It's very easy to dream away in a hot shower, not caring about ones water usage. 'The Water Watcher' elevates consciousness about water consumption, resulting in necessary water conservation," said Norman Goldstein, founder and CEO of BKFK.

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### Web Site Resources

This new section in *Highlights* provides readers with Internet resources that our staff and readers have found useful or interesting. Find water-related Web resource recommendations whenever this section appears in the newsletter.

Food & Water Watch (Washington, D.C.), the Interfaith Center on Corporate Responsibility (New York), GRACE (New York), and John Hopkins Center for a Livable Future (Baltimore) have joined to create the Web site H2O Conserve. The Web site, [www.h2oconserve.org](http://www.h2oconserve.org), features the H2O Calculator, a fun and easy-to-use personal water-use calculator. Taking into account the water required for types of foods eaten, household products used, and amount of travel, according to the Web site an average American uses 4500.3 L (1189.3 gal.) of water each day. This site also includes tips and additional information to help conserve water.



*Photo courtesy of H2O Conserve.*

*Do you have a fun and useful Web resource to share? Send your favorite water Web site with a description of what it is and why you think it is useful for water professionals to Highlights editor Jennifer Fulcher at [jfulcher@wef.org](mailto:jfulcher@wef.org).*



## Top News

### WEF, International Water Association Sign Memorandum of Understanding

On Sept. 11, the Water Environment Federation (WEF; Alexandria, Va.) and the International Water Association (IWA; London) signed a memorandum of understanding (MOU) to better enable information and technology transfer on a domestic and global scale. Signed by WEF President Adam Zabinski and IWA President David Garman during the 2008 World Water Congress in Vienna, Austria, the agreement will provide WEF with better opportunities for global engagement and offer IWA new and significant access to North American meeting and membership markets.



*From left, IWA President David Garman and WEF President Adam Zabinski shake hands after signing the Memorandum of Understanding Sept. 11 in Vienna, Austria. Click for larger image.*

WEF will maintain its traditional and long-standing relationships with other international organizations such as the Stockholm International Water Institute, the European Water Association, and the Japan Sewerage and Water Association, but will increasingly work with IWA to provide mutual opportunities for members to participate in global and domestic water forums and activities, including new workshops and symposia. To enhance its reach in North American markets, IWA plans to open a U.S.-based office in Washington, D.C., or New York in October 2009.

In addition to this new MOU, the two organizations are also co-organizers of World Water Monitoring Day™, an international outreach program that builds public awareness and involvement in protecting water resources around the world.

### East Meets WEF

Representatives from the Chinese government-sponsored International Environmental Protection Science & Technology Zone (IEPZ) recently met with representatives of the Water Environment Federation (WEF; Alexandria, Va.) and the U.S. Environmental Protection Agency (EPA) Office of Water to discuss the development of China's environmental industry. The IEPZ, a distribution center for high-tech products and services, will be a featured exhibitor at WEFTEC.08 in Chicago.

*From left, Tim McCully, senior policy advisor for international affairs, and Ben Grumbles, assistant administrator, both of the EPA Office of Water; Huo Qili (Chili) and Fu Yinghua (Shengjie) from the Yixing Haiyi Investment Co. Ltd., representing IEPZ, and WEF's Joan Huang. Photo courtesy of Gene DeMichele, Government Affairs program director, WEF. Click for larger image.*





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### Engineers Without Borders: Discounted Membership for Young Professionals

The Water Environment Federation (WEF; Alexandria, Va.) and Engineers Without Borders–USA (EWB–USA; Longmont, Colo.) have been exploring how to work together on public health protection through sustainable solutions to water and sanitation challenges.

As a first step, WEF is providing a subsidy that will allow a number of its young professional (YP) members to join EWB–USA for a first-year annual cost of \$50, which is half the normal cost. The discounted membership is available to the first 200 WEF YP members who join EWB–USA through Dec. 31. YPs interested in this offer should provide their WEF membership number and a discount code (available from Dianne Crilley, [dcrilley@wef.org](mailto:dcrilley@wef.org)) at [www.ewb-usa.org/wef](http://www.ewb-usa.org/wef).

To learn more about EWB–USA, see [www.ewb-usa.org](http://www.ewb-usa.org). Contact information for student and professional chapters is available here.

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### WEFTEC.09 Call for Abstracts

The Water Environment Federation (WEF; Alexandria, Va.) is calling for abstracts for WEFTEC.09, WEF's 82nd annual technical exhibition and conference. The 2009 conference will be held Oct. 10–14, 2009 at the Orange County Convention Center in Orlando, Fla. The deadline for abstract submissions is Dec. 3 by midnight, Eastern Time.

Those who submit abstracts will have the opportunity to showcase their environmental knowledge and research to 20,000 professionals. Those submitting their work may also have the opportunity to submit their work to be published in WEF's peer-reviewed journal, *Water Environment Research*<sup>TM</sup>.

Abstract topics for WEFTEC.09 include:

- Collection systems
- Disaster planning
- Energy conservation and management
- Everglades restoration: planning, policy, and science
- Facility operations
- Geographical information systems and information management
- Greenhouse gas emissions
- Groundwater
- Industrial issues and technology
- Instrumentation, automation, and computer applications
- International and small island nations' issues
- Laboratory practices
- Leading edge research
- Management of odors and air emissions
- Microconstituents



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- Municipal wastewater treatment

For a full description of topics, click [here](#). For general abstract review criteria and submission format requirements, click [here](#). For abstract review criteria related to research abstracts, click [here](#).

If you are interested in submitting a proposal for an entire session (such as a panel discussion, a hot topic update from a committee, etc.), please click [here](#) to obtain forms.

If you are interested in submitting a proposal for an interactive all-day or half-day workshop, click [here](#) for guidance and click [here](#) for the forms.

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### Chicago Water Reclamation District Receives 22nd NBP EMS Certification

The Metropolitan Water Reclamation District of Greater Chicago, has been recognized by the National Biosolids Partnership (NBP) as the 22nd wastewater agency in the country to be certified and admitted to the partnership's environmental management system (EMS) for biosolids program.



The district, the first wastewater agency to be certified in Illinois, is one of 100 wastewater agencies currently participating in the NBP EMS program. The achievement recognizes that the district has an effective biosolids environmental management system. For more information see [www.mwrd.org](http://www.mwrd.org).

*Back row, from left: Jim Hanlon, EPA Office of Wastewater Management director; Ken Kirk, NACWA executive director; Dan Collins, MWRGC EMS coordinator; Terry O'Brien, president of the MWRDGC Board of Commissioners; Tim Williams, WEF Government Affairs managing director; Bill Bertera, WEF executive director; and Dick Lanyon, MWRDGC general superintendent and NBP chair. Front row, from left: District commissioners Barbara McGowan, Debra Shore, Patricia Young, Patricia Horton, Kathleen Therese Meany, Gloria Allitto Majewski, and Frank Avila. Click for larger image.*

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## WEF News

### Authors Needed for Annual Literature Review

The Water Environment Federation (WEF; Alexandria, Va.) is seeking authors to prepare a review of literature for the Annual Literature Review issue of the publication *Water Environment Research*. Authors will be responsible for researching environmental/water quality journals and providing a brief synopsis of all relevant literature published in 2008 on one of the following subjects:

- Anaerobic processes;

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- Effects of chemicals on microorganisms;
- Electronics and metals finishing and processing;
- Gaseous emissions from wastewater facilities;
- Hazardous waste assessment, management, and minimization;
- Hazardous waste storage, disposal, remediation, and closure;
- Monitoring, sampling, and automated analysis;
- Pesticides and herbicides;
- Physicochemical processes;
- Power production waste;
- Pulp and paper mill effluents;
- Radioactive waste;
- Thermal effects;
- Urban wet-weather flows;
- Wastewater collection systems.

Participating authors will become members of the Literature Review Committee and serve a typical term of 5 years on the committee. Literature reviews will be due the spring of 2009. Submissions will be written according to WEF's author guidelines, and include a complete list of corresponding references.

Interested individuals should indicate in which section(s), they are interested and send a brief resume to Lorna Ernst, staff liaison, at [lernst@wef.org](mailto:lernst@wef.org).

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### **New Public Education Materials Available**

New bill stuffers, door hangers, and free, downloadable, and customizable ads for outreach efforts are now available through the public education initiative, Water Is Life, and Infrastructure Makes It Happen™. The new materials are available under "toolkit," at [www.WaterIsLife.net](http://www.WaterIsLife.net).

These products have been developed by the Water Environment Federation (WEF; Alexandria, Va.)–National Association of Clean Water (NACWA; Washington, D.C.) work group. The initiative incorporates the themes of public health, the environment, and economic stability with an overarching message promoting the image of water professionals.

While visiting the Web site, register for updates on Water Is Life and the infrastructure investment education effort being organized by WEF, NACWA, American Water Works Association (Denver), American Society of Civil Engineers (Reston, Va.), and other organizations.

Another Water Is Life project, the documentary *Liquid Assets The Story of Water Infrastructure*, is scheduled to air on public television stations beginning Oct. 1.

For more information contact Lorraine Loken at [lloken@wef.org](mailto:lloken@wef.org) or (703)684-2487.

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### **WEF Offers International Exhibiting Opportunities**

For those with business development plans that include the Middle East, Europe and Asia, the Water Environment Federation (WEF; Alexandria, Va.) offers the opportunity to exhibit with WEF International Pavilions at the Water, Energy Technology, and Environment Exhibition (WETEX); Wasser Berlin; and the China Water Show (formerly WSDWTF). These events allow businesses to exhibit products and services to thousands of new customers under the WEF banner in a prime location.

#### **WEF Pavilion at WETEX**

The Water, Energy Technology, and Environment Exhibition (WETEX) will take place March 10–12, 2009, at the Dubai International Convention & Exhibition Centre in Dubai, United Arab Emirates. This annual event will provide access to Eritati and other growing Arab Gulf and Middle Eastern markets. The 2008 WETEX show attracted more than 10,000 trade visitors and 275 exhibiting companies from 28 countries.

#### **WEF Pavilion at WASSER Berlin**

Wasser Berlin will take place March 30–April 3, 2009, at the Messe Berlin in Berlin, Germany. This show is hosted every 3 years and is a must-attend event for access to European markets. The 2006 Wasser Berlin show attracted more than 41,000 trade visitors and 546 exhibiting companies from 30 countries.

#### **WEF Pavilion at the China Water Show (formerly WSDWTF):**

The China Water Show will take place April 28–30, 2009, at the Intex-Shanghai and Shanghai Mart in Shanghai. This annual event will provide access to Chinese and other growing Asian markets. The 2008 WSDWTF show attracted more than 28,000 trade visitors and 750 exhibiting companies from 24 countries.

#### **WEF International Pavilion benefits include:**

- Prominent WEF Pavilion location in exhibit hall
- WEF Pavilion included on the VIP tours
- Booth sizes from 9 m<sup>2</sup> (smaller than most show minimums)
- Shell scheme build-out
- Furnishings (to include entry desk, table and chairs, wastebasket, literature stand, lighting)
- Carpeting
- Cleaning services included
- Translation services (as required)
- WEF sponsored lounge and meeting area with complimentary beverages
- WEF sponsored on-site reception
- Assistance with connecting to the local U.S. Department of Commerce representative
- Pre- and post-show promotion in WEF's publications including *WWE* and *WE&T*
- Pavilion staffed by WEF employees
- Aid in obtaining official invitation letters for visas (as needed)
- Assistance with hotel arrangements close to exhibit hall

For more information, contact Laila Sukkariyyah at [lsukkariyyah@wef.org](mailto:lsukkariyyah@wef.org), (703) 684-2458, or (703) 650-8516 (mobile). If you are attending WEFTEC.08 in Chicago and are interested in exhibiting at a WEF Pavilion, please stop by the WEFTEC Onsite Sales Office, Room S102, South Building, Level 1.

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The Water Environment Federation would like to thank the following exhibiting companies for their support of the 2008 WEF International Pavilion Program—WSDWTF in Shanghai, and IFAT in Munich, Germany: ADS LLC, Aqua-Aerobics Systems Inc., Aries Industries/Vac-Con, Bio-Microbics Inc., Groth Corp., Hayward Flow Control Systems, Hydro Instruments, Kemira Chemicals (Shanghai) Co. Ltd., LobeStar Pump, Mody Pumps Inc., NEFCO Inc., Neuros Co. Ltd., Penn Valley Pump Co. Inc., Pulsafeeder Inc., Robbins and Myers Fluid Management Group, Ross Valve Mfg Co. Inc., Selwood Pumps, and World Water Works Inc.

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### WEF Proceedings Now Available Online

The Water Environment Federation (WEF; Alexandria, Va.) has created an archival library of the papers presented at the annual Water Environment Federation Technical Exhibition and Conference (WEFTEC) and other conferences held since 2000. WEF members can access the archive at no charge. These proceedings are not peer-reviewed.

Papers are available as follows:

- **2000–2006 Proceedings.** Individual papers for 2000–2006 conferences may be viewed and downloaded in the archival library online.
- **2007 and 2008 Proceedings.** Proceedings for 2007 and 2008 conferences are available on CD-ROM only, and must be ordered through WEF Customer Service.

Click [here](#) to access the proceedings archive or order CD-ROMs.

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### More News

#### Grants Offered for Business Installation of Renewable Energy Systems

Focus on Energy (Madison, Wis.) is offering one-time grants to help finance the installation of innovative renewable energy systems for businesses. Eligible businesses must submit grant proposals to the organization by Oct. 29. Funds will be awarded on a competitive basis and are meant to support one project in each of the following technologies:

- **Industrial or Municipal Anaerobic Digesters** — This grant will fund the installation of a commercially available anaerobic digester system ranging from \$2 to \$4 million. The grant will reward up to 25% of the installed project cost, or a maximum of \$500,000.
- **Biomass Combustion** — This grant will fund the installation of a commercially available biomass combustion system ranging from \$2 to \$4 million. The grant will reward up to 25% of the installed project cost, or a maximum of \$500,000.
- **Solar Water Heating** — This grant will fund the installation of a solar hot water system that offsets more than 10,000 therms per year. The grant will reward up to 25% of the installed project cost for tax-paying entities and up to 35% for nonprofits, or a maximum of \$100,000.



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- **Solar Electric** — This grant will fund the installation of a photovoltaic system that produces more than 50 kW per year. The grant will reward up to 25% of the installed project cost for tax paying entities and up to 35% for nonprofits, or a maximum of \$100,000.
- **Wind Energy** — This grant will provide financial support for the installation of one commercially available wind energy system that demonstrates a new type of turbine, has a special type of application and/or provides very high visibility and education value. To be eligible the project must produce 20 kW to 100 kW per year. This grant will reward up to 35% of the installed project cost, or a maximum of \$100,000.

To learn more about the available grants, or to get an application, call (800)762-7077 or see [focusonenergy.com/rfp](http://focusonenergy.com/rfp).

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### **In Memoriam: Jim Howland, CH2M Hill Co-Founder**

Jim Howland, the co-founder of CH2M Hill (Englewood, Colo.) died Aug. 28. He was 92.

Howland served as general manager of the engineering firm almost since its inception in 1946 and became president 20 years later.

Howland became chairman of the CH2M Hill board of directors from 1974 to 1977, and retired from full-time work in 1982. After retirement he was appointed by Gov. Victor G. Atiyeh to the Oregon Water Resources Board, where he served from 1986 to 1994.

For more than 60 years, Howland supported the Oregon State University (Corvallis, Ore.) student chapter of the American Society of Civil Engineers (ASCE; Reston, Va.) by regularly giving talks to the students. He received the university's Distinguished Service Award and the Alumni Associations' E.B. Lemon Distinguished Alumnus Award. The ASCE honored him with the John I. Parcel-Leif J. Sverdrup Engineering Management Award in 1984.