

WATER ENVIRONMENT FEDERATION
2018
PROGRESS
REPORT



A MESSAGE FROM WEF LEADERSHIP

WE ARE THE REGENERATION

WE are The ReGeneration. What does it mean, and why did we choose it? It started with a mission to land on a unifying theme and call to action for WEFTEC that would clearly define why WEF and WEFTEC exist. The reason we are driven to achieve our shared purpose: to be a community of empowered professionals, who work together to create a healthy global water environment, by recovering, renewing, and reusing our water resources.

The ReGeneration is defined as a modern movement that's made up of a diverse group of globally connected, innovative, and like-minded individuals of all ages and nationalities who share a common interest in renewable resources, recycling, and other means of sustaining the earth's natural environment.

It's about harnessing the power of individuals working together for something greater. We didn't make it up, nor do we know who did, but we can't think of a better definition of who we are, what we do, and why we do it. What started off as a search for a catchy buzzword to inspire and unify turned into so much more.

Among the many accomplishments that we achieved together in 2018, one that we are particularly proud of, ties very closely to the above definition. Last fall, the Board of Trustees approved new strategic goals. Among them is this: "Increase diversity and inclusiveness in the water sector through engagement and membership growth."

We added this goal because we believe that WEF's membership should mirror the society we serve. Right now, there are some disparities, but we want to correct those imbalances. Not because it looks good, but because it is good. It's good for WEF. It's good for the water sector. And, it's good for the communities that we serve.

We sincerely thank WEF members, Member Associations (MAs), and all our water sector colleagues for an outstanding and meaningful year. The good work we do as individuals and as a worldwide team of water professionals makes a significant difference.

As we look forward to the future by reflecting on the past, we encourage you to look for new ways to be a part of, and help us grow, this exciting ReGeneration of water leaders.

CARRY ON FOR CLEAN WATER



Eileen O'Neill
WEF Executive Director



Jenny Hartfelder
WEF President, 2017-2018



Tom Kunetz
WEF President, 2018-2019



THE FOUNDATION OF WEF MEMBERSHIP IS SIMPLE:

EVERY MEMBER
CONTRIBUTES TO MAKING
OUR WORLD A BETTER
PLACE BY CHOOSING
TO WORK IN WATER.

WEF transforms that passion and collective knowledge into "The Power of WE," a dynamic force that supports a strong and stable water sector; provides leadership and professional development opportunities; and progresses our shared goal of improving water quality around the world.

We believe everyone should be able to count on clean, safe water and wastewater services. With your support, WEF provides the educational programs, services, and training that advances water innovation and unites our global network of water professionals around the common goal of protecting public health, the environment, and quality of life.

2018 brought us even closer to this vision. Here's a look at what we did, and will continue to do, as we make progress for the future.

WE CONNECT WATER PROFESSIONALS

wef membership SERVICE & SUPPORT

TOTAL MEMBERS
35,031

TOTAL NEW MEMBERS
5,413

INCREASE OF...
1.9%
above FY17 total membership of 34,378

RETENTION RATE
86.9%
National average 80%

INCREASE OF...
1.4%
from FY18

4 integrated recruitment campaigns

3 digital and lead generation campaigns, including our first-ever membership recruitment video

Campaigns resulted in nearly **500** new WEF and MA members



From March through May, a total of 237 members from 41 MAs came together to exchange ideas and experiences at four WEF/Member Association Exchange (WEFMAX) meetings held in Indianapolis, Indiana, Little Rock, Arkansas, Girdwood, Alaska, and Wrightsville Beach, North Carolina. Presentations and discussions revolved around membership, engagement, and workforce development.

Representatives from 16 MAs gave presentations on various topics and experiences while staff from the San Francisco, California-based Baywork shared what they've learned and achieved in their regional collaborative approach with utilities in workforce reliability.



CLASS OF 2018
54 new graduates joined the Water Leadership Institute bringing the total to 237 since 2012. The first George S. Hawkins Scholarship was awarded to Melody Gonzalez and will be offered again in 2019.



WATER ADVOCATES

Our network of water professionals reaches across every state and community, in every congressional district, to get the word out about the value of water and steps needed to protect it. In 2018, 333 individual letters were sent to U.S. representatives and senators on six focused topics: FY19 funding for SRFs and WIFIA; ensuring water is a part of any infrastructure package; Waters of the U.S.; wipes; federal funding for research and development; and support for legislation on the National Priorities Water Research Grant program.

WATER WEEK 2018

250+
members came to Washington, D.C., in April for the National Water Policy Fly-In

500
total water professionals participated in Water Week and the Fly-In

40
states were represented

26
MAs and 7 MA Delegations were represented

300
WEF Member congressional and U.S. Environmental Protection Agency (EPA) visits

1
new scholarship program for young professionals (YPs)

7
YP scholarships were awarded and to complete the program, we provided resources to support remote participation in Water Week.

TOGETHER, WE CALLED ON CONGRESS TO:

- Double the funding for the Drinking Water and Clean Water State Revolving Loan Funds
- Pass legislation to reauthorize and boost funding for the Water Infrastructure Finance and Innovation Act
- Increase funding for the National Priorities Water Research Grant program to \$20 million
- Strengthen protection of the nation's waters in the 2018 Farm Bill
- Increase funding for USDA's rural water/wastewater loan and grant program
- Increase funding for the Bureau of Reclamation's water recycling program to \$60 million



We launched the WEF InFLOW (Introducing Future Leaders to Opportunities in Water) program, which makes opportunities in the water sector real, exciting, and attainable to students from underrepresented groups. With the support of our generous sponsors, we kicked off this exciting program by inviting and covering the costs of 16 African American students from Howard University in Washington, D.C., Tuskegee University in Tuskegee, Alabama, and the University of South Florida in Tampa, Florida, to attend WEFTEC 2018.



WE ENRICH THE EXPERTISE OF WATER PROFESSIONALS



ONE TIME IN NEW ORLEANS

We celebrated New Orleans' Tricentennial anniversary and WEFTEC's ongoing relationship with our host city by joining in its "One Time in New Orleans" social media campaign. WEFTEC 2018 brought water professionals around the world together for that time and in that place to learn, connect, and help shape the way critical water quality decisions are made today and for years to come.

REGISTRANTS
20,740
New Orleans Record

EXHIBITORS
1,015

INTERNATIONAL
EXHIBITORS

140

EXHIBITOR FLOOR SPACE
299,500
Net square feet

INTERNATIONAL
REGISTRANTS

2,646

COUNTRIES
REPRESENTED

73

| | | | |
|---------------------------------------|--|--|---|
| 30 Pavilion Theater Sessions | 20 Innovation Row Exhibitors | 13 Innovation Pavilion Exhibitors | 1 WEF Innovative Technology Award Winner |
| 30 Stormwater Theater Sessions | 37 Stormwater Pavilion Exhibitors | | |
| 15 Mobile Sessions | 40 Participating Companies | | |



All things WEFTEC, all year long. As the official news source of WEFTEC, WEFTEC NOW was introduced as an exciting new re-brand and re-structure of the WEFTEC Daily onsite newspaper. Working in coordination with the daily newspaper printed and distributed onsite, the new portal leverages the searchability, longevity, and multimedia abilities of the Internet. WEFTEC Now will help record and preserve event experiences as well as show newcomers what makes WEFTEC "THE Water Quality Event."



OPERATIONS CHALLENGE™ BREAKS BARRIERS

44 teams of elite wastewater operators met at WEFTEC 2018 to participate in the 31st annual Operations Challenge competition. The event continued to help break down barriers with the inclusion of six international teams (from Canada, Argentina, and Colombia) and the debut of 11 new teams, including Colombia's Acueducto de Bogota and South Carolina's Charlie's Angels—the first all-female team to participate in the national competition. Texas took all with the Trinity River Authority (Division I) and the Poseidons of North Richland Hills (Division II) besting the rest in both divisions.

WEF SPECIALTY CONFERENCES AND WEBCASTS

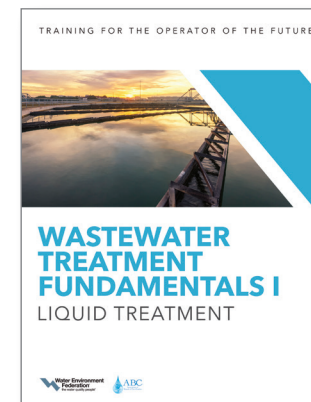
TOTAL ATTENDEES

3,170

- 982** Utility Management
- 320** Odors & Air Pollutants
- 674** Collection Systems
- 727** Residuals and Biosolids
- 351** Nutrient Removal & Recovery
- 116** Disinfection and Reuse

- 32** Webcasts
- 8** eShowcases
- 5,091** Total Participants

Highest attended webcast:
"Resource Recovery from Biosolids – Phosphorus and Energy"



TRAINING FOR THE 21ST CENTURY

We released a new line of training tools to equip operators with 21st century wastewater treatment methods and practices. The series helps prepare operators for the first three levels of certification examinations and qualify for continuing education credits. The first publication in the series, *Wastewater Treatment Fundamentals I: Liquid Treatment*, covers liquid treatment processes. The manual, companion online course, Trainer's Kit, and operator fact sheets address different learning styles and align with most state CEU requirements. The second publication, *Wastewater Treatment Fundamentals II: Solids Handling and Support Systems*, is expected to be published in 2020.

GROWING A GREEN WORKFORCE

Following the national rollout in 2018, more than 400 individuals have now been certified for green infrastructure jobs through the National Green Infrastructure Certification Program (NGICP). Supported by 15 national and founding partners, the NGICP is seeking new partnerships with municipalities, MS4 communities, companies, foundations, and others to expand the program's reach and create a community-based "work for water pipeline."

As word spreads about the value of this training, MAs have found ways to get involved in this first-of-its-kind program, including the purchase of training licenses. An increasing number of MAs have members who have received NGICP professional credentials and who are eagerly passing along their new knowledge and skills to their colleagues.

"GAWP members are keenly interested in getting up to speed on the installation and maintenance of the green infrastructure practices that will accompany the new standard. We're looking forward to adding NGICP to our toolbox of professional stormwater trainings."

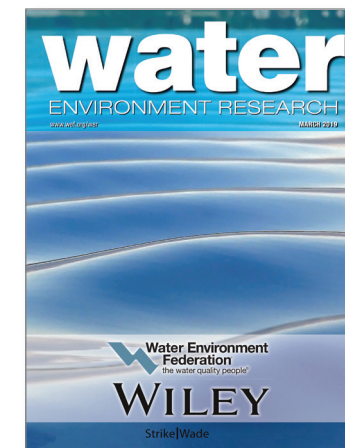
— James Moore, stormwater specialist for the Georgia Association of Water Professionals



WORK FOR WATER PIPELINE

To help jumpstart the flow, we've been working closely with community partners like Woodson High School in Washington, D.C., to incorporate NGICP into their curriculum. School officials are helping us prepare new graduates to be eligible to sit for the NGICP exam. We'll then work with our other program partners to help connect the newly certified professionals with available job opportunities.

We are also partnering with the National Recreation and Park Association (NRPA) to adapt and deliver the curriculum to professionals responsible for land management and maintenance and operations of municipal parks throughout the country. In 2019, NRPA will award 25 applicants with scholarships to attend a special training and sit for the certification exam.



WATER ENVIRONMENT RESEARCH TAKES A NEW DIRECTION

We took a new direction for *Water Environment Research (WER)* by announcing a new publishing partner, John Wiley and Sons, Inc., and bringing on-board a new editor-in-chief. Dr. Zhen (Jason) He is a professor of civil and environmental engineering at Virginia Polytechnic Institute and State University and directs the university's Environmental Biotechnology and Bioenergy Laboratory.

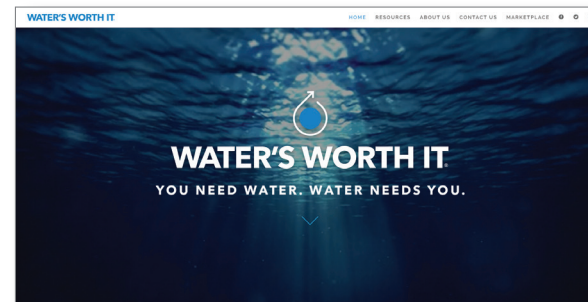
WE INCREASE THE AWARENESS & IMPACT OF THE VALUE OF WATER



It's back! Coming full circle, we refreshed and relaunched our popular WATER'S WORTH IT® public awareness campaign at WEFTEC 2018 in New Orleans—site of the original launch in 2012. MA support and ongoing use of this grassroots effort was the driving force behind the decision to regenerate the campaign and give it a new beginning.



Featuring a new modern look and an updated messaging platform, the campaign remains true to the original brand, concept, and structure. Built around the tagline, five focus areas (Respect, Effort, Passion, Health, and Future), and a shared call-to-action (You Need Water. Water Needs You.), the customizable campaign promotes and encourages a shared responsibility in protecting water, infrastructure, and the life-supporting benefits it provides for today and the future.



The website – www.WatersWorthIt.org – was also upgraded with a more engaging, dynamic design and a set of high-impact resources that will help you be a more effective water communicator. This includes a new video PSA, Why Water's Worth It.



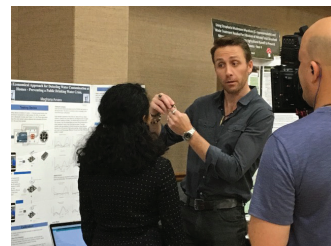
TASTY SUDS

The first-ever Pure Water Brewing Alliance Beer Garden served up some tasty suds during WEFTEC 2018. The popular attraction provided a relaxed spot for attendees to take a break and sample Pure Water Brews – the world's most sustainable beer made from 100% pure recycled wastewater.

The lounge also featured the Clean Water Services' new Pure Water Wagon, which is a mobile treatment and public outreach tool that transforms what goes down the drain into water that's safe to return to the environment, irrigate crops, brew beer, and more.

WATER SHOULD BE JUDGED BY ITS QUALITY, NOT ITS HISTORY.

LIGHTS, CAMERA, ACTION

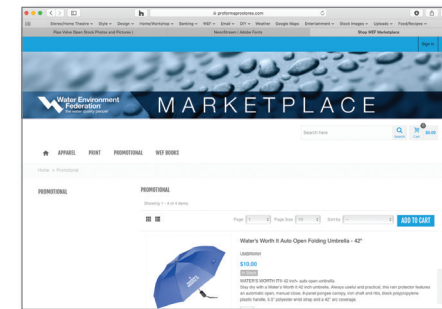


The 2018 U.S. Stockholm Junior Water Prize competition was featured on the TV show, Xploration Awesome Planet. Hosted by Philippe Cousteau Jr., grandson of legendary explorer Jacques Cousteau, the show

supports STEM-based education and careers. The season five episode, titled "Students Take the Lead," showcased the talent and ingenuity of winning students from 47 states and Puerto Rico while celebrating their potential as the next generation of water leaders.

A total of 48 finalists from 32 countries, including 2018 U.S. winner Braden Milford and 2018 Canadian winner Holly Tetzlaff, were sent to Stockholm for the international competition during World Water Week in August. Two students from Singapore, Caleb Liow Jia Le and Johnny Xiao Hong Yu, claimed the international prize.

Now Open for Business



We officially launched a new online portal, www.WEFMarketplace.org, a convenient one-stop-shop for WATER'S WORTH IT campaign merchandise. As a separate portal that links to WEF's established e-commerce site, e-WEF.org, the new marketplace provides access to WEF books and training materials while enabling users to order, customize, and print a growing selection of products.

THE ART OF THE MATTER

The SYPC and service project volunteers swapped their shovels for paint brushes to create a 1.8-m × 3.7-m (6-ft × 12-ft) green infrastructure mural that depicts New Orleans waterways, landmarks, and Tremé culture. As a new focal point for the neighborhood, informational text within the graphic educates the community about the importance of water and empowers the next generation of water stewards.



Natalie Keene Photography



Natalie Keene Photography

TRANSFORMING TREMÉ

WEF's Students & Young Professionals Committee (SYPC) and nearly 200 WEFTEC volunteers helped transform part of the historic and culturally vibrant neighborhood of Tremé in New Orleans during the 11th annual WEF Community Service Project. A 121-m² (1300-ft²) stormwater planter was built to help "detain the rain" by managing runoff, educating passersby, and beautifying the space.



A total of 54 new podcasts were released through the Words on Water podcast series, which features conversations with the world's most influential water leaders. Published every two weeks, new and archival episodes are available for download. The podcasts received 38,521 downloads in 2018.



SMALL HANDS, BIG HEROES



Since 2013, the SYPC has also engaged and educated more than 3,000 K-5 students through the Water Palooza, a day-long

education fair held at an elementary school in our WEFTEC host city. During the sixth annual event at WEFTEC 2018, staff, volunteers, and Niles the Crocodile—WEF's cuddly mascot—entertained and inspired more than 200 students at St. Mary's Academy in New Orleans to be good to water by teaching them about their local water environment and what they can do to help.

Hands-on activities about the water cycle, flushables, flood mitigation, water pollution, wetland health, and more helped educate and inspire those small hands to be big water heroes. Generous support and donations allow the SYPC to host Water Palooza each year at no cost to the school or participants.

You Can Water Palooza, Too!

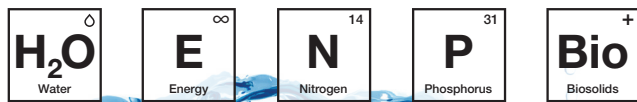


Want to hold a Water Palooza in your community? Our free, downloadable Water Palooza Toolkit can be taken to schools and other venues to help you educate children about water. This handy collection of simple but innovative hands-on activities had more than 250 downloads in 2018.

WE PROVIDE A PLATFORM FOR WATER SECTOR INNOVATION



ReNEW WATER PROJECT



We launched our ReNEW Water Project, which creates a bold, aspirational, and public call to action to accelerate resource recovery. The project established a baseline for current resource recovery practices by using data from national and state databases, publications, and a utility survey. This survey represents about 25 percent of municipal wastewater flow and about 20 percent of biosolids produced in the U.S. New data will be collected on a biannual basis and expanded to Canadian water facilities. We are also considering goals for water utilities to increase resource recovery from these baseline levels.



UN SUSTAINABLE DEVELOPMENT GOALS

WEF's mission and our resource recovery focus is aligned with the UN Sustainable Development Goals (SDGs), especially SDG 6, which commits to ensuring the availability and sustainable management of water and sanitation for all.

SDG Target 6.3 identifies water reuse as a means to improve water quality. The UN calls for the reduction of pollution, elimination of dumping and minimizing the release of hazardous chemicals and materials, halving the proportion of untreated wastewater, and substantially increasing recycling and safe reuse globally by 2030.



In addition to the WEF programs and policies that support the SDGs, WEF members and staff were among the young global leaders at UNLEASH 2018 – an annual global innovation lab that brings together people from all over the world to transform 1,000 personal insights into hundreds of ideas while building lasting global networks around the SDGs.

For the second year in a row, WEF members and staff traveled to UNLEASH in Singapore to network with global and domestic talents as well as promote the work and opportunities that WEF can provide. The group shared their experiences as part of the Innovation Pavilion at WEFTEC 2018.



LEADERS INNOVATION FORUM FOR TECHNOLOGY

Our successful collaboration with the Water Research Foundation (WRF) continues to promote innovation in water by helping to accelerate technical advances and policy solutions.

In October, we recognized the winners of the first-ever LIFT Intelligent Water Systems Challenge. The winning project, titled "Open-Storm Detroit Dynamics," was announced at WEFTEC 2018 and earned the team a \$25,000 prize sponsored by Xylem, Inc. The competition challenges

"As a critical WEF partner, we continued our support of WRF's ongoing and future search through a \$75,000 donation."

students, professionals, and technology experts to use innovation and data to help solve some of the most difficult

issues facing water and wastewater utilities. The 2018 challenge began in April and required the 19 participating teams to address real-world problems.

To better connect innovators on the ground, 28 professionals from 10 utilities received awards from the LIFT 2018 Scholarship Exchange Experience for Innovation & Technology, which helps fund travel to other utilities with innovations of interest.

STUDENT DESIGN COMPETITION

Students from the University of British Columbia and University of Colorado raised the innovation bar once again by winning the SYPC-organized Student Design Competition. Held during WEFTEC 2018, this was the third win for the University of British Columbia (British Columbia Water & Waste Association) in the environmental category and the fourth win for University of Colorado (Rocky Mountain Water Environment Association) in the wastewater design category.



TECH CLUSTERS

Another exciting LIFT collaboration is our coordination of a national network of 18 water technology innovation clusters. Originally developed by EPA, the water clusters are regional groupings of businesses, government, research institutions, and other organizations focused on development of innovative technologies to provide clean and reliable water. WEF is supporting the program by facilitating cluster communications, advising cluster organizations, enabling collaboration between clusters, and identifying water programs that support cluster activities.

WE CELEBRATE EXCELLENCE IN WATER



- Beckley Sanitary Board (W. Va.)
- Benton Harbor St. Joseph Joint Wastewater Treatment Plant (Mich.)
- Carroll County Water Resources Coordination Council (Md.)
- Charlotte Water (N.C.)
- City of Detroit Water and Sewerage Department (Mich.)
- City of Fayetteville (Ark.)
- City of Grandville Clean Water Plant (Mich.)
- City of Tallahassee (Fla.)
- City of Wooster (Ohio)
- Clean Water Services (Hillsboro, Ore.)
- Columbus Water Works (Ga.)
- DC Water (District of Columbia)
- Delta Diablo (Calif.)
- Evesham Municipal Utilities Authority (N.J.)
- Fort Wayne City Utilities (Ind.)
- Great Lakes Water Authority (Mich.)
- Houston Water (Texas)
- Kenosha Water Utility (Wisc.)
- Lafayette Renew (Ind.)
- Massachusetts Water Resources Authority (Boston)
- Metro Wastewater Reclamation District (Denver)
- Napa Sanitation District (Calif.)
- Queensland Urban Utilities (Australia)
- Region of Waterloo (Ontario, Canada)
- Renewable Water Resources (Greenville, S.C.)
- Spokane County Environmental Services (Wash.)
- St. Cloud Public Utilities (Minn.)
- Toho Water Authority (Kissimmee, Fla.)
- Washington Suburban Sanitary Commission (Laurel, Md.)
- Water Environment Services (Oregon City, Ore.)
- Western Monmouth Utilities Authority (Manalapan, N.J.)
- Western Virginia Water Authority (Roanoke, Va.)

NATIONAL MUNICIPAL STORMWATER AND GREEN INFRASTRUCTURE AWARDS

PHASE I WINNERS

Lexington-Fayette Urban County Government, Division of Water Quality – Program Management and Overall Highest Score

Louisville Metropolitan Sewer District, Ky. – Innovation

| PHASE I RECOGNITION | Program Management | | Innovation | |
|--|--------------------|--------|------------|--------|
| | Gold | Silver | Gold | Silver |
| Anne Arundel County, Md. | 🔵 | | | 🔵 |
| City of Dayton, Department of Water, Ohio | 🔵 | | | 🔵 |
| City of Glendale, Water Services Department, Ariz. | 🔵 | | | 🔵 |
| City of Los Angeles, LA Sanitation and Environment | | | | |
| Watershed Protection Division | 🔵 | | | 🔵 |
| City of Pensacola, Fla. | | 🔵 | | 🔵 |
| District Department of the Environment, Washington, D.C. | 🔵 | | | 🔵 |
| Fairfax County, Department of Public Works and Environmental Services, Stormwater Planning Division, Va. | 🔵 | | | 🔵 |
| Jefferson Parish, La. | 🔵 | | | 🔵 |
| State of Hawaii Department of Transportation, Highways Division, Oahu District | 🔵 | | | 🔵 |

PHASE II WINNERS

City of Alexandria, Va. – Innovation and Overall Highest Score

City of Auburn, Ala. – Program Management

| PHASE II RECOGNITION | Program Management | | Innovation | |
|---|--------------------|--------|------------|--------|
| | Gold | Silver | Gold | Silver |
| Capitol Region Watershed District, Minn. | 🔵 | | | 🔵 |
| City of Richmond, Department of Public Utilities, Va. | 🔵 | | | 🔵 |
| East Lampeter Township, Penn. | 🔵 | | | 🔵 |
| Lake Havasu City, Ariz. | 🔵 | | | 🔵 |
| Metropolitan St. Louis Sewer District, Mo. | 🔵 | | | 🔵 |
| Sewerage and Water Board of New Orleans, La. | 🔵 | | | 🔵 |
| St. Tammany Parish Government, La. | | 🔵 | | 🔵 |
| Town of North Hempstead, New York | | 🔵 | | 🔵 |
| Town of Yarmouth, Mass. | 🔵 | | | 🔵 |

WEF EXCELLENCE AWARDS

INDIVIDUAL SERVICE AND CONTRIBUTION AWARDS

OUTSTANDING MEMBER ASSOCIATION

- Pacific Northwest Clean Water Association

OUTSTANDING YOUNG WATER ENVIRONMENT PROFESSIONAL AWARD

- Ryan LeBlanc, North Carolina Water Environment Association

PUBLIC OFFICIALS AWARD

- Governor Brian Sandoval (R-Nev.)

WATER FOR PEOPLE ROBERT W. HITE OUTSTANDING LEADERSHIP AWARD

- Don Hoekstra, Water Environment Association of Ontario

WATER HEROES AWARD

- North Port Utilities Department, City of North Port, Fla.
- Jacobs - Key West, Pembroke Pines, West Melbourne and The Villages Operations & Maintenance Teams

EDUCATION AWARDS

WEF CANHAM GRADUATE STUDIES SCHOLARSHIP

- Christopher Evan Lawson, University of Wisconsin-Madison

FAIR DISTINGUISHED ENGINEERING EDUCATOR MEDAL

- Dr. Paul Westerhoff, Arizona State University

PUBLIC COMMUNICATION AND OUTREACH PROGRAM AWARDS

Individual Category

- Shea Dunifon, Florida Water Environment Association

Member Association Category

- Japan Sewage Works Association, Hirofumi Okahisa, Director General, "The Secrets of Wastewater"

Other Category

- The Baltimore City Department of Public Works YH20 Youth Water Mentoring Program

OPERATIONAL AND DESIGN EXCELLENCE AWARDS

COLLECTION SYSTEMS AWARD

- James A. Hewitt, Ohio Water Environment Association

INNOVATIVE TECHNOLOGY

- SimuWorks OpTool™ – Hydromantis Environmental Software Solutions, Inc.

MORGAN OPERATIONAL SOLUTIONS AWARD

- City of Boise Lander Street Water Renewal Facility Operations and Process Coordination Team
- Jeffery Mahagan, Town of Hillsborough, N.C.

WEF PROJECT EXCELLENCE AWARD

Central Pasco County Beneficial Water Reuse Project: 4G Ranch Wetlands

- Pasco County, Fla.
- Southwest Florida Water Management District
- Jacobs/CH2M

The McCook Reservoir

- Metro Water Reclamation Plant of Greater Chicago

WEF SAFETY AWARD

- City of Garland (Texas) Wastewater Treatment

PUBLISHED PAPER AWARDS

EDDY WASTEWATER PRINCIPLES/PROCESSES MEDAL

"Rethinking the Mechanisms of Biological Phosphorus Removal," James L. Barnard, Patrick Dunlap, Mark Steichen, *Water Environment Research*, v. 89, 2017, p. 2043

GASCOIGNE WASTEWATER TREATMENT PLANT OPERATIONAL IMPROVEMENT MEDAL

"Marrying Step Feed with Secondary Clarifier Improvements to Significantly Increase Peak Wet Weather Treatment Capacity: An Integrated Methodology," Glen T. Daigger, John S. Siczka, Thomas F. Smith, David A. Frank, J. Alex McCorquodale, *Water Environment Research*, v. 89, no. 8, August 2017, pg. 724

McKEE GROUNDWATER PROTECTION, RESTORATION OR SUSTAINABLE USE AWARD

"Indicators of Groundwater Potential for Nitrate Transformation in a Reductive Environment," Marija Perović, Vesna Obradović, Srđan Kovačević, David Mitrinović, Nevena Živančev, Tanja Nenin, *Water Environment Research*, 2017, v. 89, no. 1, pp. 4-16

2018 WEF FELLOWS

Joseph Bonaccorso, New Jersey Water Environment Association

David Clark, Pacific Northwest Clean Water Association

James Courchaine, New England Water Environment Association

Dr. Andrew Englande Jr., Louisiana Water Environment Association

Mary Evans, Water Environment Association of Texas

Michael Kyle, Pennsylvania Water Environment Association

Peter Laughton, Water Environment Association of Ontario

Dr. Helen Littleton, New Jersey Water Environment Association/Chesapeake Water Environment Association

Robert O'Dette, Kentucky-Tennessee Water Environment Association

R. Wayne Ramey, Rocky Mountain Water Environment Association

Reynold D. "Dale" Richwine, Pacific Northwest Clean Water Association

Cordell Samuels, Water Environment Association of Ontario

Charles Stevens, Missouri Water Environment Association/Iowa Water Environment Association

Dr. Peter Strom, New Jersey Water Environment Association

Dr. Michael Sweeney, Florida Water Environment Association

WE LEAD A STRONG & STABLE WEF FOR THE FUTURE

OUTGOING COMMITTEE CHAIRS

Air Quality & Odor Control

Carla Dillon | 2016 - 2018

Collection Systems

Diane Sumego | 2017 - 2018

Industrial Wastewater

Jeremy Johnson | 2016 - 2018

Intelligent Water Technology

David Chamberlain | 2016 - 2018

Literature Review

Eric Evans | 2015 - 2018

Manufacturers & Representatives

John Dyson | 2015 - 2018

Municipal Resource Recovery Design

Andrew Shaw | 2016 - 2018

Nominating

Rick Warner | 2017 - 2018

Operations Challenge

James Borton | 2016 - 2018

Plant Operations & Maintenance

Terry Gellner | 2016 - 2018

Program

Sarah Reeves | 2015 - 2018

Public Communication & Outreach

Julianne LaRock | 2015 - 2018

Research & Innovation

Kartik Chandran | 2016 - 2018

Safety & Security

Jonathan Reeves | 2015 - 2018

Small Community

Michael Hines | 2015 - 2018

Utility Management

Bruce Husselbee | 2015 - 2018

Water Reuse

Meera Victor | 2016 - 2018

Watershed Management

Thomas Dupuis | 2016 - 2018

OUTGOING COMMUNITY OF PRACTICE DIRECTORS

Conveyance & Watershed

Todd Williams | 2016 - 2018

Resource Recovery

Art Umble | 2016 - 2018

Operations & Maintenance

Mike Kyle | 2016 - 2018



2016-2017 WEF Board of Trustees (from left to right): Treasurer Jamie Eichenberger, Denver, Colo.; Ifetayo Venner, Tampa, Fla.; Vice-President Jackie Jarrell, Charlotte, N.C.; Peter Vanrolleghem, Quebec City, Canada; President Jenny Hartfelder, Denver, Colo.; Mark Poling, Portland, Ore.; President-Elect Tom Kunetz, Chicago, Ill.; Lynn Broaddus, Minneapolis, Minn.; Joan Hawley, Muskego, Wis.; Past President Rick Warner, Reno, Nev.; Secretary/Executive Director Eileen O'Neill, Alexandria, Va.; and Claus Homann, Aarhus, Denmark.



2017-2018 WEF Board of Trustees (from left to right): (Standing, left to right) Tom Kunetz - President, Eileen O'Neill - Executive Director, Jenny Hartfelder - Immediate Past President, Peter Vanrolleghem - Trustee, Joan Hawley - Trustee, Jackie Jarrell - President-Elect, Lynn Broaddus - Vice President (Seated, left to right) Mark Poling - Trustee, Ifetayo Venner - Trustee, Aimeé Killeen - Trustee, Jamie Eichenberger - Treasurer, Rajendra Bhattarai



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Youtube: WaterEnvironmentFed

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www.WatersWorthIt.org

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www.WaterWeek.us

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WEF is headquartered in Alexandria, Va., just outside of Washington, D.C.

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