Tampa Marriott
Waterside Hotel & Marina
September 11-14
The Innovation Corner
Exhibitors will be giving 20-minute presentations within the Exhibit Hall. Come find out the latest they have to offer on their products and services.

Monday, September 12
10:05 a.m. - 10:25 a.m.
Bio-Microbics

12:05 p.m. – 12:25 p.m.
Xylem, Inc.

12:35 p.m. – 12:55 p.m.
Bureau of Reclamation

3:05 p.m. – 3:25 p.m.
GE Water & Process Technologies

Tuesday, September 13
10:05 a.m. - 10:25 a.m.
Lewis, Longman & Walker, P.A.

3:05 p.m. – 3:25 p.m.
H2O Innovation
Cappuccino Bar and Lounge
Enjoy a freshly made cappuccino in the Exhibit Hall sponsored by GE Water & Process Technologies.

Conference Wi-Fi
Stay connected at the Symposium thanks to Arcadis, the official Conference Wi-Fi Sponsor.
Connect your device to: WateReuseThanksArcadis
Password: Arcadis

New Water Brew Contest & Beer Challenge
The WateReuse Association, in partnership with GE, Tetra Tech, Xylem and Special Hoperations, challenged more than 100 local homebrewers to produce the best tasting beer from purified recycled water.

More than 1000 gallons of wastewater was purified using multiple advanced technologies, including biological and chemical processes, ultrafiltration, reverse osmosis, and ultraviolet light. Stringent water quality tests verified that the purified water met all state and federal standards for drinking water. Each contestant received ten gallons of water to make 12 bottles of their brand of homebrew.

Certified beer tasters will judge the beer in four categories based on the basic elements of beer – Water, Hops, Malt and Yeast. Symposium attendees will have the opportunity to taste and vote for their favorite brew at the Welcome Reception on Sunday night. Winners will be announced during the Awards Luncheon on Tuesday.

Kids Recycled Water Art & Writing Contest
Winning entries from the 31st Annual WateReuse Symposium Recycled Water Art and Writing Contest will be on display at the conference. The purpose of the art and writing contest was for students to promote the importance of water management and the infinite possibilities for conserving, protecting, and advancing technologies and projects that result in greater water reuse, recycling and efficient management of water resources. The winning entries will also be recognized during the Awards Luncheon on Tuesday, September 13th.

Dinner and Discovery at the Florida Aquarium
Tuesday, September 13th | 6:30 p.m. – 9:30 p.m.

*Walking directions can be found in your registration packet*
We hope you will join us on Tuesday evening for the final networking event of the conference and a chance to experience a great dinner and networking with colleagues in this unique setting.

From playful river otters to intimidating sharks, there are more than 20,000 aquatic animals and plants to see during a visit to the Aquarium. Far more than just an attraction, the Florida Aquarium is actively working around the state in research and conservation programs. This is sure to be a fun evening for all!

Conference Mobile App
The Conference Mobile App provides easy-to-use interactivity that will enhance your conference experience:

- Browse the technical program by time, speaker or track and create your own personalized agenda
- View presentation descriptions and learning objectives
- View speaker bios and communicate directly with speakers on the app
- Rate the sessions you attend and comment on them, too
- View and download the technical presentations from the app
- Connect with Sponsors and Exhibitors and view or download their handouts
- Receive important real-time communication during the Conference
- Connect with other attendees based on interests and areas of expertise
- Attendee to Attendee messaging through private messaging within the app
- Interactive Activity Feed where attendees can post, comment on, or “like” other posts
- Share your thoughts about the conference on Facebook, Twitter and LinkedIn right from the app

Session and Presentation Surveys
Your feedback is important to us so please remember to rate each of the sessions and/or presentations that you attend. Surveys for each session and/or presentation can be found on the Conference Mobile App.

PowerPoint Presentations
PowerPoint Presentations can be found on the Symposium Mobile App under each Session and Presentation. Following the conference, an e-mail will be sent out with a link where you can access the PowerPoint presentations as well.
Professional Development Hours (PDHs) and Continuing Education Units (CEUs)

The WateReuse Symposium is pleased to offer Professional Development Hours (PDHs) for all states and Continuing Education Units (CEUs) in Florida and California.

How many educational credits can I earn at the Symposium?
By attending all sessions on Sunday, Monday, Tuesday, and Wednesday, you can earn up to 2.0 Continuing Education Units (CEUs) and 20 Professional Development Hours (PDHs).

If you are signed up for the IUVA workshop on Sunday, you can earn an additional .35 CEUs and/or 3.5 PDHs.

How do I earn educational credits at the Symposium?
In order to receive CEU credit, you will be required to sign-in and sign-out of every session you attend. If you forget to sign-in or sign-out of a session, you will not receive credit for that session; you must do both at every session you attend.

In order to receive PDH hours, you will need to complete the PDH form located in your registration packet. These forms can be dropped off at one of the drop boxes located throughout the conference or mailed to the WateReuse office after the conference.

When will I receive credits for the Symposium?
Certificates and transcripts will be made available to participants electronically within 3-4 weeks after the Symposium. Please keep in mind that, although WateReuse does provide these files, most states will require the individual licensee to report continuing education credits.

General Information
Terminology and education credit requirements and restrictions vary widely. All participants are responsible for checking with their license/certification authority to ensure that the WateReuse technical concurrent sessions meet specific requirements.

CEU and PDH Credit Calculations:
1.0 CEU = 10 Hours of session time
1.0 PDH = 1 Hour of session time

For Example: 1.2 CEU Credits = 12.0 PDH Credits or 17.0 PDH Credits could equate to 1.7 CEU Credits depending on individual state regulations.

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option in the neighboring counties. However, the Town’s utility staff was confident technology. This treatment alternative had not yet become a commonly selected top priorities. The town decided to implement Membrane Bio-Reactor (MBR) Davie decided to invest in water reclamation, sustainability and innovation were a sustainable future and to become better stewards of the environment. When customers. Using reclaimed water also moves our communities forward toward impact, extending drinking water supply, lowering future capital costs for alternative water supplies, reducing fertilizer usage, to lowering water bills for customers. Using reclaimed water also moves our communities forward toward a sustainable future and to become better stewards of the environment. When Davie decided to invest in water reclamation, sustainability and innovation were top priorities. The town decided to implement Membrane Bio-Reactor (MBR) technology. This treatment alternative had not yet become a commonly selected option in the neighboring counties. However, the Town’s utility staff was confident in assuming the regional leadership role in the implementation of MBR technology. The technology was so novel, that there was no operator training publicly available. Except for training from the vendor, utility operators could not fall back on beast practices from other utilities in the area. Hence, Davie facility staff developed their own Standard Operating Procedures and experience was self-taught. Then, staff started training regional counterparts on the new technology. The Town of Davie Utilities Department is proud to say that all self-taught knowledge has resulted in a steady and successful production of high quality reclaimed water.

The Town has also partnered with various educational institutions and governmental entities to facilitate tours of the water reclamation facility, teach about the benefits of using reclaimed water, and train colleagues on using MBR technology.

WateReuse Industrial Project of the Year

J.R. Simplot Process Water Treatment and Return Plant (Caldwell, ID)

J.R. Simplot Company (Simplot), one of the world’s largest producer of potato products, set an ambitious goal for its process water treatment and return plant (PWTRP) in Caldwell, Idaho: become a zero-liquid discharge facility and produce effluent suitable for reuse in production.

Part of a major expansion to consolidate Simplot’s French fry production for major customers into a new facility, the PWTRP meets Simplot’s challenging objectives through an innovative treatment system including primary clarification, anaerobic fermentation, enhanced biological nutrient removal (EBNR) for nitrogen and phosphorus, and activated sludge with membrane bioreactors (MBR) followed by reverse osmosis (RO) and chlorine disinfection.

The state-of-the-art PWTRP—designed and built by CDM Smith—was completed in January 2014 and treats an average of 2.3 million gallons per day (mgd) of high-strength potato processing wastewater, with a maximum capacity of 3.2 mgd. Approximately 1.7 mgd of water, equivalent to drinking water standards, is reclaimed and returned for reuse safely in the production process.

An innovative spray evaporation technology disposes of up to 320,000 gallons per day of brine reject from the RO system. All remaining effluent is used for irrigation of forage crops. Common-wall construction minimized capital costs and consolidated piping needs, minimizing operating labor and lowering the plant’s overall footprint.

The integrated treatment system, delivered within budget and an aggressive schedule, reduces Simplot’s dependence on ground water supplies, maintains land application hydraulic requirements, protects the environment and advances the company’s sustainability mission.
WateReuse Agriculture Project of the Year

**Napa Sanitation District Recycled Water Expansion Project**  
(Napa, CA)

Through partnerships with Napa County and the Los Carneros Water District, the Napa Sanitation District has doubled its treatment and distribution capacity for recycled water. With 40% of its influent now available as recycled water to the community through this project, the District provides a drought-resistant water source to high-value agricultural areas of Napa County to improve their water reliability.

At the Water Resource Recovery Facility, the District expanded the treatment process and the recycled water pump station to accommodate the growing need for recycled water. To deliver the irrigation water to customers, the District and key partners built 14 miles of distribution pipelines.

Through this project, the District is providing a sustainable, drought resistant, and nutrient rich water source for some of the most valuable agricultural parcels in the country. The District is maximizing resource recovery and recycling every drop of water that comes to the water resource recovery facility during the irrigation season.

The pipelines have the capability to deliver 375 million gallons of recycled water to approximately 150 vineyard properties during the irrigation season, and have the capability to be expanded to provide more recycled water in the future. Through this project, the District is relieving the pressure on the groundwater supply and saving potable water for drinking rather than irrigation. Key partnerships, years of planning and construction, and success in obtaining grant funding have resulted in this forward-thinking project that can meet future resource needs and serve as a model for other communities, especially those whose economy depends on agriculture.

WateReuse Innovative Project of the Year

**City of Goodyear, Arizona**  
(Goodyear, AZ)

The City of Goodyear, Arizona owns and operates the State’s largest municipal drinking water reverse osmosis treatment system that generates nearly 1.0 MGD of brine concentrate. Currently the brine is sent to the City’s 4.0 MGD main reclamation facility for disposal which creates chemical impacts to the plant and takes up valuable capacity meant for development. Based on a “One-Water” approach with multiple stakeholders, a brine wetland has been successfully piloted to show proof of concept and the final wetlands are currently being designed for build-out for the R/O Plant. The wetlands are not only being designed for brine disposal but will: 1) significantly enhance the recreation and animal habitats for a nearby large regional county park; 2) provide a riparian restoration enhancement to the dry Gila River making this a point of destination for recreation, hiking, biking, and birding; and 3) mitigating a major flood zone by preventing the invasive dry loving tamarisk (Salt Cedar) from proliferating within the riparian area and keeping the river channelized for efficient conveyance of flood water. The City has adopted a “One-Water” philosophy whereby all water is important; even water of poor quality. The City’s collaborative process included every possible stakeholder to ensure the highest most effective water reuse management option. The disposal of inland brine is providing significant benefits to various stakeholders while enhancing the environment and habitats through the process of “One-Water” as the premier system for solving this challenging issue.

WateReuse Institution of the Year

**Colorado Water Conservation Board**  
(Denver, CO)

The Colorado Water Conservation Board (CWCB), the state’s water policy agency, made many significant contributions to advance reuse over the past year and was awarded WateReuse Colorado’s 2016 “Institution of the Year”.

Colorado Water Plan – CWCB staff worked closely with WateReuse Colorado while developing the reuse section of Colorado’s first Water Plan which charts a path forward to meet our state’s future water needs. CWCB staff’s willingness to incorporate information provided by WateReuse Colorado and others resulted in a robust reuse-specific section of the Plan with numerous action steps forward identified. The Water Plan also importantly calls out the key role potable reuse will play in meeting future demands.

Project to Advance Direct Potable Reuse – In March the CWCB Board voted unanimously to approve $188,955 of state Water Supply Reserve Account funds to support WateReuse Colorado’s project “Advancing Direct Potable Reuse to Optimize Water Supplies and Meet Future Demands” (which is also funded by another $114,500 from other project supporters). CWCB staff were extremely helpful and supportive throughout the grant application process. Without the CWCB’s assistance and financial support, WateReuse Colorado would not be undertaking this important project that will help advance potable reuse as a viable option for our communities.

Effective Reuse Spokesperson – WateReuse Colorado is extremely grateful for CWCB Director James Eklund’s highly supportive and enthusiastic Keynote speech at our April Reuse Rendezvous event. His participation and support were critical to furthering interest in and support of reuse among key water professionals and decision makers in Colorado.
H2O Innovation (Quebec, Canada)

As an OEM and solutions provider, H2O Innovation puts significant importance in the choice of technologies, suppliers and materials used in the fabrication of its systems. The company has, and still does today, invested a considerable amount of energy in developing smart technologies aimed at improving the quality and efficiency of the systems it delivers across North America. These smart technologies that were at first seen as bold and unrealistic are now being praised for their ingenuity and contribution to the water treatment industry.

Through engineering, manufacturing and commissioning, H2O Innovation provides its municipal and industrial clients with the best designs, quality and services. Used for various applications (drinking water, wastewater, water reuse, desalination, and process water) the systems offered by the company are reliable and produce safe water that surpasses the most stringent regulations.

H2O Innovation’s support of its clients doesn’t stop at the commissioning; it also offers complete system health care by providing specialty chemicals, technical assistance, and parts. By remaining available to its clients for service, H2O Innovation is accountable for the systems it delivers and maintains a relation of trust that grows through the years.

Providing both the systems and services has been tried and tested by many other companies though none have succeeded the way H2O Innovation has.

This success, and its contribution to the industry with its smart technologies, paved the way for H2O Innovation to be awarded with the Water Technology Company of the Year award at the 2016 Global Water Awards.

Corporate video: https://www.youtube.com/watch?v=G6BLr53iTvl
System fabrication time lapse: https://www.youtube.com/watch?v=za8chmClzFM

Sustainable Beer Smackdown (Clean Water Services/Milwaukee Municipal Sewage District) (Hillsboro, OR and Milwaukee, WI)

The Sustainable Beer Smackdown, a partnership between Clean Water Services and Milwaukee Municipal Sewage District, is an attention-grabbing strategy to get past “the yuck factor” that so often thwarts critically important discussions of water reuse. The Smackdown is an extension of the Pure Water Brew project launched in 2014 by CWS. Last year, the two utilities partnered with Oregon and Wisconsin homebrewers to create beer from highly purified water that had recently been effluent. They then produced and distributed an educational and humorous video promising a “duel to the last drop” between “the Best of the West” and “the Beast of the East.” The actual tasting/judging event took place 9/29/15 at WEFTEC, the largest annual water quality exhibition in the world. There, national and international leaders in water resource management had the embodied and unforgettable experience of literally tasting what the future might hold. Yet the serious message behind the Smackdown reaches not only regulators and industry leaders, but the general public as well, through the savvy deployment of education and outreach strategies that leverage powerful media attention. Coverage of the Smackdown, or the underlying CWS/MMSD initiatives, has appeared everywhere from NPR and the Wall Street Journal, to Liquor.com and The Guardian.

Key to the partners’ success has been a willingness to not only tolerate the “sewage brewage” jokes, but to laugh along. After all, what better way to get a conversation started than over a beer?

Denver Parks and Recreation Department (Denver, CO)

Denver Parks and Recreation (DPR) provides a broad range of programs, services, facilities, and park amenities in the City and County of Denver. The city’s park system encompasses more than 250 urban parks totaling over 6,000 acres, and more than 14,000 acres of pristine mountain parks. DPR manages eight golf courses, 24 lakes, over 80 miles of trails, nine dog parks, two bison herds, over 300 athletic fields and more than 300 acres of public-right-of-way. The recreation system includes 27 recreation centers and 16 outdoor pools serving over one million visitors annually. Recreation programs include arts and cultural events, outdoor education, aquatics, sports and fitness opportunities and youth programming.

Denver parks house nationally recognized cultural attractions, such as the Denver Zoo, the Denver Botanic Gardens, Historic Four Mile House, Red Rocks Amphitheater and the Buffalo Bill Museum, which collectively serve millions of visitors annually.

In Colorado’s dry Front Range, water is a resource that must be conserved. As the population of Denver and the surrounding region continues to grow, the increased use of recycled water is necessary to maximize existing resources and build an adequate water supply for the future.

For more than a decade, DPR has utilized recycled water as a sustainable, low-cost irrigation resource in urban parks. In partnership with Denver Water, DPR
evaluates different irrigation methods and water management practices. DPR will continue to work with Denver Water and community partners in assessing the use of recycled water, its effects on trees and park landscaping and possible options to protect and preserve the city’s trees.

WateReuse Customer of the Year – Groundwater Recharge

**Water Replenishment District: Dominguez Gap Seawater Intrusion Barrier** (Los Angeles, CA)

The Water Replenishment District of Southern California: Dominguez Gap Seawater Intrusion Barrier is a recycled water project established in February 2006 to combat seawater intrusion in the Dominguez Gap Barrier (DGB). Recycled water treated with microfiltration, reverse osmosis, and chlorination from the Terminal Island Treatment Plant (TITP) is conveyed to the DGB.

WRD is involved in groundwater monitoring, safe drinking water programs, combating seawater intrusion and groundwater replenishment operations throughout Southern Los Angeles County. In 2015, WRD used nearly 4,000 AFY of recycled water out of 7,000 AFY of total water demand to protect groundwater supplies for the Central Basin and West Coast Basin.

WRD was recognized by LADWP as the Recycled Water Customer of the Year for 2016.

WateReuse Person of the Year

**Bart Weiss, Hillsborough County Public Utilities Department** (Tampa, FL)

Bart Weiss is invested in reuse and that investment is much more than just time, though he invests a considerable amount of time in promoting, explaining and advancing reuse education and projects.

For years Bart has led the charge to advance reuse, providing technical expertise, advising and engaging political leaders, agricultural interests, business and industrial users, utilities and students. His easy-going personality and patience coupled with a willingness to listen thoroughly and carefully to reuse skeptics has been instrumental in advancing reuse in Florida.

Even so, Bart serves reuse at the national and state level. He is co-chair of the National Symposium to be held in Tampa this year and he sits on the National Board for WateReuse. He has served as President of WateReuse Florida 2011-2012 and again 2014-2015.

But Bart didn’t just “serve” in these positions. He embraced each, he engaged and he encouraged others to, as well. In the awful recession, when maintaining membership was challenging for every organization, Bart dug in, revitalizing WateReuse Florida with added member benefits in the form of fact sheets and model releases and other materials. Leading the board, he established the first symposium for reuse in November 2014.

But well beyond that, Bart was instrumental in advising Florida Senator Wilton Simpson who authored SB536 which directed the Florida Department of Environmental Protection to inventory reuse quantities and applications of reuse, the assess where the resource can be used and about the need to address public education.

Bart has worked tirelessly and persistently to advance the development and acceptance of reuse in Florida and throughout the US.

WateReuse Young Professional of the Year

**Jillian Vandergrift, CDM Smith** (Denver, CO)

Ms. Jillian Vandegrift is a 27-year old environmental engineer based in Denver, Colorado. This millennial began her reuse focused career through laboratory and research experience while studying environmental engineering at Rensselaer Polytechnic Institute and Colorado State University. While getting her Master’s Degree at Colorado State, she pilot tested an “opt-in” full scale Greywater Reuse Pilot System in one of the campus dormitories and provided assistance on a Model City Ordinance for Graywater Legislation in Fort Collins, Colorado. More recently, her project experience at CDM Smith has focused on technical writing in the form of regulatory assignments for several water reuse studies, primarily regarding potable reuse applications, in addition to water treatment design and water supply projects. She is a primary engineer and author of the Potable Reuse Supplement Document to the Environmental Protection Agency (EPA) 2012 Guidelines for Water Reuse document development and an engineer on Water Research Foundation Project #4508. WRF #4508 aims to produce a DPR guidance framework that water utilities and regulators can use to evaluate the safety of existing or potential future DPR scenarios and help facilitate a proactive DPR monitoring process that is protective of public health. Jill is also developing a design for a cooling tower reuse project at the University of New Mexico for golf course irrigation. Jill has taken an active and ambitious role in increasing the visibility of reuse studies at national conferences and has presented Potable Reuse topics at over 8 regional and national conferences in 2016.
## Sunday, September 11, 2016

### 9:00 a.m. - 12:30 p.m.

#### Technical Tour:
- Hillsborough DPR Pilot Tour
- Brew House Tour/Tasting

### 12:30 p.m. - 4:30 p.m.

#### Technical Tour: Hillsborough DPR Pilot Tour + Brew House Tour/Tasting
- departs from the Hotel Lobby

### 1:00 p.m. - 6:00 p.m.

#### Registration Open – Grand Ballroom Foyer

### 3:00 p.m. - 6:30 p.m.

#### Exhibit Hall Open – Salon H & G

### 3:30 p.m. - 4:00 p.m.

#### Public Perception
- Linda Macpherson, New Water ReSources
  - The Importance of Public Acceptance
  - Social Research Summaries
  - Tools to Engage
  - Success Stories

### 4:00 p.m. - 4:30 p.m.

#### Regulatory Context
- Kati Bell, MWH, now part of Stantec
  - EPA Guidance
  - Levels of Treatment and Allowable Uses
  - State and Local Implementation

### 5:00 p.m. - 6:30 p.m.

#### Welcome Reception and New Water Brew Contest – Salon E & F

### Technical Sessions

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<td>Water’s Supply and Water Reuse’s Role</td>
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<td>Salon H &amp; G</td>
<td>Levels of Treatment and Allowable Uses</td>
<td>Operation Testing of the First Direct Aquifer Recharge System in Florida at the South Hillsborough Aquifer Recharge Project (SHARP)</td>
<td>Two-Year Performance of Orange County’s Expanded Ground Water Replenishment System</td>
<td>Water Polishing of Municipal Wastewater Intended for Water Recycling Using a Novel Biocatalyst Technology</td>
</tr>
<tr>
<td>Salon I &amp; J</td>
<td>Local FL Examples</td>
<td>Ben Stanford, Hazen and Sawyer</td>
<td>Alan Royce, TrojanUV</td>
<td>Shih-Chi Weng, MWH, now part of Stantec/John Hopkins University Alliance</td>
</tr>
<tr>
<td>Salon A &amp; B</td>
<td>A TBL Approach</td>
<td>Chris Pettit, Palm Beach County Water Utilities Department</td>
<td>Bart Weiss, Hillsborough County Public Utilities Department</td>
<td>The City of Los Angeles AWPF Pilot Project – Update on Prequalification, Treatment Train Selection, Start-up and Commissioning</td>
</tr>
<tr>
<td>Salon G &amp; H</td>
<td>Roundtable/Q&amp;A</td>
<td>Operational Testing of the First Direct Aquifer Recharge System in Florida at the South Hillsborough Aquifer Recharge Project (SHARP)</td>
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### SPONSORED BY:

- CDM Smith
- TrojanUV
- Biocatalyst Technologies, Inc.
- Shih-Chi Weng, MWH, now part of Stantec/John Hopkins University Alliance
### Monday, September 12, 2016

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<tbody>
<tr>
<td>8:30 a.m. - 10:00 a.m.</td>
<td>Networking Break – Salon E &amp; F</td>
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<td>Technical Sessions</td>
<td>Room A &amp; B, Salon C &amp; D, Salon A &amp; B, Salon G &amp; H</td>
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<tr>
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<td>Room A &amp; B, Salon C &amp; D, Salon A &amp; B, Salon G &amp; H</td>
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<td>11:30 a.m. - 12:00 p.m.</td>
<td>Technical Sessions</td>
<td>Room A &amp; B, Salon C &amp; D, Salon A &amp; B, Salon G &amp; H</td>
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<tr>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Legislative Committee Meeting – Meeting Room 2</td>
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<tr>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Networking Luncheon with Exhibitors – Salon E &amp; F</td>
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<tr>
<td>12:05 p.m. - 12:25 p.m.</td>
<td>Innovation Corner: Presentation by Xylem, Inc. – Salon E &amp; F</td>
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<tr>
<td>12:35 p.m. - 12:55 p.m.</td>
<td>Innovation Corner: Presentation by Bureau of Reclamation – Salon E &amp; F</td>
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### Opening Session – Florida Ballroom

**WateReuse Update**  
Guy Carpenter, Aqua-lecture, LLC, WateReuse President  

**AWWA Update**  
Jacqueline Tobert, AWWA Vice-President and Florida Section Director  

**WEF Update**  
Paul Bowen, WEF President  

**Welcome**  
Bob Buckhorn, Mayor of Tampa  

**The Future of Reuse Policy in Florida**  
Ryan Matthews, Director of the Office of Water Policy, Florida Department of Environmental Protection  

**P3 Innovation to Address A Water Supply Challenge**  
Robert Beltran, Southwest Florida Water Management District  
Tony Depalma, Lakeland County Utilities  
David Lukicic, Tampa Electric  

### Technical Sessions

**A3:** Big Picture Session – State of the Science on Antibiotic Resistance  

**Room**  
Salon C & D  
Salon A & B  
Salon G & H  

**Moderator**  
Channah Rock, University of Arizona  
Abigail Antalovich, Xylem, Inc.  
Justin Mattingly, WERF  

**10:30 a.m. - 11:00 a.m.**  
A fast-growing body of peer-reviewed literature exists that attempts to identify direct links between antibiotic resistance and water reclamation processes. This session will cover what is currently known, what is unknown, and where we need to go next to help answer public health concerns related to antibiotic resistance in water reclamation processes and applications.

**Valerie Jody** Hartwood, Ph.D., University of South Florida  
Jean E. McLain, Ph.D., University of Arizona  
Daniel Gentry, Ph.D., University of Nevada, Las Vegas  
Amy Pruden, Ph.D., Virginia Tech  
Jeff Mather, WERF/NWRI  

**11:00 a.m. - 11:30 a.m.**  
Can MBR Replace MF/UF in a Potable Reuse Train – Implementation Concerns?  
ULTA & Elford, CH2M  

**11:30 a.m. - 12:00 p.m.**  
Resolving the Final Hurdles to MBRs for Potable Water Reuse  
Andrew Salveson, Carollo Engineers  

**Industrially Relevant**  
Efficient Retrofit with MBR to Meet Increased NEWater Feedstock Demand at the Largest WRP in Singapore  
James DeCarolis, Black & Veatch  

**Industrial Water Footprint**  
Efficient Retrofit with MBR to Meet Increased NEWater Feedstock Demand at the Largest WRP in Singapore  
James DeCarolis, Black & Veatch  

**B3:** MBR in Potable Reuse  

**C3:** Industrial Reuse - Innovations in Industrial Reuse  

**Room**  
Salon C & D  
Salon A & B  
Salon G & H  

**Moderator**  
Kari Bell, MWH, now part of Stantec  
Mel Butcher, Arcadis  

**1:00 p.m. - 1:30 p.m.**  
Arizona  
Chick Graf, Arizona Department of Environmental Quality  

**Idaho**  
Teresa Nicholas, Idaho Department of Environmental Quality  

**Florida**  
Kristine Morris, Florida Department of Environmental Quality  

**Direct Potable Reuse using Multi-Stage Ozone-Biological Filtration (BAF)**  
Steve Seachrist, Gwinnett County Department of Water Resources  

**Tennessee**  
George Gaden, Tennessee Department of Environment and Conservation  

**Texas**  
Maria Berg, Texas Commission on Environmental Quality  

**Full Scale UV Advanced Oxidation Process with Sodium Hypochlorite for Potable Reuse Treatment – An Economic Attractive Option**  
Jens Scheideler, Xylem, Inc.
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<td></td>
<td><strong>A5: Big Picture Session – State-by-State Regulatory Updates</strong></td>
</tr>
<tr>
<td>3:30 p.m. - 4:00 p.m.</td>
<td>Salon C &amp; D</td>
<td>Diane Taniguchi-Dennis, Clean Water Services</td>
<td>Salon A &amp; B&lt;br&gt;Resilient DPR Design from Collection System to Tap, WRF Project 14-13&lt;br&gt;Sharon Walker, Sustainable Systems LLC&lt;br&gt;A Push for Non-Irrigation Uses of Recycled Water at Irvine Ranch Water District&lt;br&gt;Mark Tetterman, Irvine Ranch Water District</td>
</tr>
<tr>
<td>4:00 p.m. - 4:30 p.m.</td>
<td>Salon A &amp; B</td>
<td>Eva Steine-Darling, Carollo Engineers</td>
<td>Source Control and Pollution Prevention - Two P's in a Pod&lt;br&gt;Alan Rimer, EnvirotechNavations&lt;br&gt;Sparta Reuse Facility Efforts to Save the Sparta Aquifer&lt;br&gt;Terry Emory, City of West Monroe</td>
</tr>
<tr>
<td>4:30 p.m. - 5:00 p.m.</td>
<td>Salon G &amp; H</td>
<td>Eric Rosenblum, EnviroSpectives, Inc.</td>
<td>Achieving Water Independence through the Sustainable Water Infrastructure Project&lt;br&gt;Areeba Syed, MWH, now part of Stantec&lt;br&gt;Advanced Technology to Improve Water Quality and Increase Use of Recycled Water for West Basin Carson&lt;br&gt;Bryce Danker, Hazen and Sawyer</td>
</tr>
<tr>
<td>5:00 p.m. - 5:30 p.m.</td>
<td>Salon E &amp; F</td>
<td>Alice Fungi, Waterkeeper Alliance</td>
<td>Source and Supply Water Quality Impacts on Performance and Reliability of Potable Reuse Advanced Water Treatment Facilities&lt;br&gt;Sandeep Sathyamoorthy, Black &amp; Veatch&lt;br&gt;The Importance of Engineering Barriers for a Protected Pretreatment Program for IPR&lt;br&gt;Penny Gar, Carollo Engineers&lt;br&gt;The Importance of Engineering Barriers for a Protected Pretreatment Program for IPR&lt;br&gt;Penny Gar, Carollo Engineers&lt;br&gt;Leachate to Reuse Water – Operating and Treatment Challenges within Pinellas County Solid Waste&lt;br&gt;Andre Dieffenbacher, Hazen and Sawyer&lt;br&gt;Margaret Cook, Pinellas County Utilities</td>
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<td><strong>A6: Panel Discussion: Reuse Decision-Making</strong></td>
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<tr>
<td>8:30 a.m. - 9:00 a.m.</td>
<td>Salon C &amp; D</td>
<td>Jeff Mosher, WE&amp;P/WIIR</td>
<td>A panel session on approaches and experiences with reuse evaluations and decision-making&lt;br&gt;The Evaluation of New Water Sources for the GWR Final Expansion&lt;br&gt;Bruce Chalmers, CDM Smith&lt;br&gt;Kathy Milke, Orange County Sanitation District&lt;br&gt;The Whole Story - How Monetizing Social and Environmental Benefits Influenced the Bottom Line for Pure Water Monterey&lt;br&gt;Jeremy Cook, HDR</td>
</tr>
<tr>
<td>9:00 a.m. - 9:30 a.m.</td>
<td>Salon A &amp; B</td>
<td>Amy Tracy, England-Thims &amp; Miller, Inc.</td>
<td>State of Agricultural Water Reuse- Impediments and Incentives&lt;br&gt;Bahman Sheik, Water Reuse Consulting&lt;br&gt;Fit for Purpose Water for Agricultural Preservation&lt;br&gt;Jim Krasus, Black &amp; Veatch&lt;br&gt;Christophor McKinney, City of Escondido&lt;br&gt;Using the Latest Potable Water Reuse Research to Understand How to Negotiate the Gap Between the Clean Water Act and the Safe Drinking Water Act&lt;br&gt;Andrew Salveson, Carollo Engineers</td>
</tr>
<tr>
<td>9:30 a.m. - 10:00 a.m.</td>
<td>Salon G &amp; H</td>
<td>Gary ReVoir, Tetra Tech</td>
<td>From Ground Water to Surface Water, Desalination – and Now Reclaimed Water&lt;br&gt;Tampa Bay Water Explores Potable Reuse as an Alternate Water Supply&lt;br&gt;Ivana Kajtezovic, Tampa Bay Water&lt;br&gt;Tampa Bay Water&lt;br&gt;From Ground Water to Surface Water, Desalination – and Now Reclaimed Water&lt;br&gt;Tampa Bay Water Explores Potable Reuse as an Alternate Water Supply&lt;br&gt;Ivana Kajtezovic, Tampa Bay Water</td>
</tr>
<tr>
<td>10:00 a.m. - 10:30 a.m.</td>
<td>Salon E &amp; F</td>
<td>Ellen McDonald, Alan Plummer Associates, Inc.</td>
<td>Recycling Produced Water for Discharge or Beneficial Use&lt;br&gt;Don Wieczerski, American Water&lt;br&gt;Trends in Appalachian Shale Development – Water Re-use and Recycling&lt;br&gt;Don Wieczerski, American Water</td>
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<td><strong>B6: Agricultural Reuse</strong></td>
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<td>Salon G &amp; H</td>
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<td><strong>C6: Potable Reuse Benchmarks</strong></td>
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<td>Salon I &amp; J</td>
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<td><strong>D6: Industrial Reuse - Technology for Oil &amp; Gas (Fracking)</strong></td>
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- a Sustainable WE2ST
- ConocoPhillips Center for Environmental Defense Fund
- American Water
- CDM Smith
- Defense Fund
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- American Water
- CDM Smith
- Defense Fund
**Tuesday, September 13, 2016**

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<thead>
<tr>
<th>10:00 a.m. - 10:30 a.m.</th>
<th>Poster Presentations</th>
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<td>10:05 a.m. - 10:25 a.m.</td>
<td>Innovation Corner: Presentation by Lewis, Longman &amp; Walker, P.A.</td>
<td>Salon E &amp; F</td>
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<th><strong>Technical Sessions</strong></th>
<th><strong>A7:</strong> Panel Discussion: El Paso’s Potable Implementation</th>
<th><strong>B7:</strong> Infrastructure Topics</th>
<th><strong>C7:</strong> Potable Reuse Quality</th>
<th><strong>D7:</strong> Industrial Reuse - Technology for Oil &amp; Gas (Membranes)</th>
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<td><strong>Room</strong></td>
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<td>Salon A &amp; B</td>
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<td>Salon I &amp; J</td>
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<tr>
<td><strong>Moderator</strong></td>
<td>Gilbert Trejo, El Paso Water Utilities</td>
<td>Lynn Spivey, Arcadis</td>
<td>Adam Festger, TrojanUV</td>
<td>Gordon Pederson, Gulf Coast Waste Disposal Authority</td>
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**10:30 a.m. - 11:00 a.m.**
A panel session covering key aspects of potable reuse implementation in El Paso.
- Leveraging University Partnerships during DPR Pilot Testing: Research on Bacterial Communities in El Paso’s AWFF Purified Water
- Corin Marron, Arcadis
- Scott Miller, University of California, Berkeley
- Pilot Testing Membrane Pretreatment Options for a DPR Treatment Train

**11:00 a.m. - 11:30 a.m.**
- The Sewer Mining Toolbox - A Tool to Assess Decentralized Reuse Opportunities
- Sandep Sathyamoorthy, Black & Veatch

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<tr>
<th>11:30 a.m. - 12:00 p.m.</th>
<th>Direct-to-Distribution DPR: Advanced Treatment Pilot Performance</th>
<th>Salon C &amp; D</th>
<th>Salon A &amp; B</th>
<th>Salon G &amp; H</th>
<th>Salon I &amp; J</th>
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<tr>
<td><strong>Room</strong></td>
<td>Daniel Olson, Arcadis</td>
<td>Adaptive Strategies and Partnerships for Year-Round Use of Existing Reuse Assets</td>
<td>Brendy McKenna, Denver Water</td>
<td>Traitability of Non-Nitrifying Secondary Wastewater Effluent for Advanced Water Treatment</td>
<td>Sun Liang, Metropolitan Water District of Southern California</td>
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<tr>
<td><strong>Moderator</strong></td>
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<td>Lynn Spivey, Arcadis</td>
<td>Adam Festger, TrojanUV</td>
<td>Gordon Pederson, Gulf Coast Waste Disposal Authority</td>
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**12:00 p.m. - 1:30 p.m.**
**Awards Luncheon and Annual Membership Meeting**
- Florida Ballroom

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<th><strong>Technical Sessions</strong></th>
<th><strong>A8:</strong> Panel Discussion: Potable Reuse Monitoring</th>
<th><strong>B8:</strong> Seawater Desalination</th>
<th><strong>C8:</strong> Planning for Inland DPR</th>
<th><strong>D8:</strong> Industrial Reuse - Technology for Pharma, Food &amp; Beverages</th>
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<td>Salon A &amp; B</td>
<td>Salon G &amp; H</td>
<td>Salon I &amp; J</td>
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<tr>
<td><strong>Moderator</strong></td>
<td>Shane Trussell, Trussell Technologies, Inc.</td>
<td>Chris Hill, Arcadis</td>
<td>Steve Jones, Garver</td>
<td>Zach Gallagher, Natural Systems Utilies</td>
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**1:30 p.m. - 2:00 p.m.**
A panel session on advances in potable reuse monitoring: Integration of Novel Sensor Systems and Decision Tools for Direct Potable Reuse
- Jeff Neumann, Black & Veatch

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<th><strong>Tuesday, September 13, 2016</strong></th>
<th>2:00 p.m. - 2:30 p.m.</th>
<th>Fluorescence based Real-Time Continuous Membrane Integrity Monitoring</th>
<th>Conventional Versus Membrane Based Pretreatment Processes for Seawater Desalination: Perspectives from Full-Scale Operating Plants</th>
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<td>Salon A &amp; B</td>
<td>Salon G &amp; H</td>
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<td><strong>Moderator</strong></td>
<td>Arabic</td>
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**2:30 p.m. - 3:00 p.m.**
Instrumentation for Treatment Process Monitoring in Potable Reuse Facilities
- Angelica Garcia, MWH, now part of Stantec

| **Room** | Salon C & D | Salon A & B | Salon G & H | Salon I & J |
| **Moderator** | Arabic | Arabic | Arabic | Arabic |

**3:00 p.m. - 3:30 p.m.**
Networking Break

**3:05 p.m. - 3:25 p.m.**
**Innovation Corner: Presentation by H2O Innovation**
- Jean McLain, Brown and Caldwell
- Martin Andersen, Amec Foster Wheeler

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<th><strong>A9:</strong> Panel Discussion: Potable Reuse Implementation</th>
<th><strong>B9:</strong> Managing Desalination</th>
<th><strong>C9:</strong> Managing Water Quality</th>
<th><strong>D9:</strong> Panel Discussion: Industrial Reuse for Florida Food &amp; Beverage</th>
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<td><strong>Moderator</strong></td>
<td>Guy Carpenter, AquaTecture, LLC</td>
<td>Christine Owen, Tampa Bay Water</td>
<td>Jean McLain, University of Arizona</td>
<td>Keyny Coral, Florida Recycling Partnership</td>
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**3:30 p.m. - 4:04 p.m.**
A panel session on special topics in DPR:
- Concept to Construction: Communicating From Start to Finish to Achieve Successful Potable Reuse Projects
- Patricia Tennyson, Katz & Associates, Inc.
- Community Engagement Pure Water Silicon Valley Style

| **Room** | Salon C & D | Salon A & B | Salon G & H | Salon I & J |
| **Moderator** | Arabic | Arabic | Arabic | Arabic |

**4:00 p.m. - 4:30 p.m.**
The Influence of Desalinated Seawater from the Carlsbad SWRO Plant on San Diego Regional Potable Water Quality
- Miguel Silva, Santa Clara Valley Water District

| **Room** | Salon C & D | Salon A & B | Salon G & H | Salon I & J |
| **Moderator** | Arabic | Arabic | Arabic | Arabic |

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<th><strong>Technical Sessions</strong></th>
<th><strong>A10:</strong> Panel Discussion: Industrial Reuse</th>
<th><strong>A11:</strong> Water Reuse for Industrial Potable Purposes</th>
<th><strong>A12:</strong> Monitoring in Potable Purposes</th>
<th><strong>A13:</strong> Water Reuse for Industrial Purposes</th>
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<tr>
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<td>Registration Open — Grand Ballroom Foyer</td>
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<td>10:00 a.m. - 10:30 a.m.</td>
<td>Plenary Breakfast – Salon E &amp; F</td>
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<td>10:30 a.m. - 12:00 p.m.</td>
<td>Closing Plenary Session – Salon E &amp; F</td>
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**Wednesday, September 14, 2016**

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<td>Registration Open — Grand Ballroom Foyer</td>
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<tr>
<td>10:00 a.m. - 10:30 a.m.</td>
<td>Panel Discussion: Potable Reuse Panel Discussions</td>
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<tr>
<td>10:30 a.m. - 12:00 p.m.</td>
<td>Closing Plenary Session – Salon E &amp; F</td>
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</table>
Thank you to our 31st Annual WateReuse Planning Committee for your dedication and time in making this conference such a huge success!

### 31st Annual WateReuse Symposium Planning Committee

#### Conference Chairs
- Channah Rock, University of Arizona
- Bart Weiss, Hillsborough County Public Utilities Department

#### Technical Program Development Committee
- Tim Thomure, HDR (Chair)
- Melissa Ariss, Arcadis
- Albrey Arrington, Loxahatchee River District
- Robert Chalmers, CDM Smith
- Jim Crook, Environmental Engineering Consultant
- Val Frenkel, Kennedy/Jenks Consultants
- Elise Goldman, West Basin Municipal Water District
- Chris Hill, Arcadis
- Jean McLain, University of Arizona
- Deepak Musale, Phillips 66
- Alan Rimer, EnvirotechNovations
- Keel Robinson, Xylem, Inc.
- Andy Shea, Shea Consulting
- Bahman Sheikh, Water Recycling Consultant
- Chris Stacklin, Orange County Sanitation District
- Don Vandertulip, Vandertulip WateReusEngineers
- Nikolay Voutchkov, Water Globe Consulting, LLC

#### Awards
- Dawn Taffler, Kennedy/Jenks Consultants (Chair)
- Keli Callahan, Carollo Engineers
- Monica Gasca, Sanitation Districts of Los Angeles County
- Steve Kebbe, Clean Water Services
- John Kmiec, Town of Marana
- Brenley McKenna, Denver Water
- Shannon Rodriguez, City of Houston
- Amy Tracy, England-Thims & Miller, Inc.
- Gilbert Trejo, El Paso Water Utilities

#### Kids Art/Writing Contest
- Amanda Schwerman, Black & Veatch
- Amy Tracy, England-Thims & Miller, Inc.

#### Facility Tour
- Bart Weiss, Hillsborough County Public Utilities Department
Upcoming WateReuse Events

2016 WateReuse Potable Reuse Summit
October 17-18, 2016
The Skirvin Hilton
Oklahoma City, OK

2017 WateReuse California Annual Conference
March 19-21, 2017
Westin San Diego
San Diego, CA

2017 Industrial and Commercial Water Reuse Conference
May 22-23, 2017
Westin Peachtree Plaza
Atlanta, GA

11th Annual IWA International Conference on Water Reclamation and Reuse
July 23-27, 2017
Long Beach Convention Center
Long Beach, CA

32nd Annual WateReuse Symposium
September 10-13, 2017
Renaissance Phoenix Downtown Hotel
Phoenix, AZ

33rd Annual WateReuse Symposium
September 9-12, 2018
JW Marriott Austin
Austin, TX