

**To:** Greenwalt, Sarah[greenwalt.sarah@epa.gov]; Forsgren, Lee[Forsgren.Lee@epa.gov]; Yamada, Richard (Yujiro)[yamada.richard@epa.gov]  
**Cc:** christopher.lindsay@iapmo.org[christopher.lindsay@iapmo.org]; dain.hansen@iapmo.org[dain.hansen@iapmo.org]  
**From:** Jackson, Ryan  
**Sent:** Thur 10/19/2017 7:14:06 PM  
**Subject:** Introductions  
[image2017-10-19-032807.pdf](#)

All, I wanted to make introductions and provide some material.

Attached is an event which I wanted to ensure our OW political staff were aware of and attached is also some research priorities which I think we may want to explore with ORD but specifically with the SAB also. Richard, I thought it may be worthwhile to have a further meeting with IAPMO and the other stakeholders involved to develop relevant water research priorities to aid the EPA.

Thanks.

**From:** DC-WJCN-3402-M@epa.gov [mailto:DC-WJCN-3402-M@epa.gov]  
**Sent:** Thursday, October 19, 2017 3:28 AM  
**To:** Jackson, Ryan <jackson.ryan@epa.gov>  
**Subject:**

**Christopher Lindsay**  
Director  
Government Relations

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(202) 445-1198  
Christopher.Lindsay@IAPMO.org  
www.IAPMO.org/GR

101 Constitution Avenue, NW  
Suite 825 East  
Washington, D.C. 20001

**Dain M. Hansen**  
Senior Vice President  
Government Relations

---



(202) 445-7514  
Dain.Hansen@IAPMO.org  
www.IAPMO.org/GR

101 Constitution Avenue, NW  
Suite 825 East  
Washington, D.C. 20001

# U.S. EPA



## Plumbing Industry Priorities

*The plumbing sector in the United States is a \$92 billion industry that employs more than 500,000 people through more than 106,000 businesses. The U.S. plumbing-manufacturing sector represents an \$8.4 billion part of the total plumbing industry. More importantly, this is a sector that is growing, with domestic demand for plumbing products expected to rise 6.3 percent annually to \$12.3 billion in 2019. Globally U.S. plumbing manufacturers export to 198 markets to help satisfy a \$26 billion world plumbing import market.*

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### IAPMO - A Global Voice In the Plumbing Industry

The International Association of Plumbing and Mechanical Officials (IAPMO) is a trade association that focuses its comprehensive services on the technical aspects of the plumbing and mechanical industries. As a global service organization, the IAPMO Group offers technical assistance and support to government ministries and private sector stakeholders in the following areas:

- **TECHNICAL REGULATIONS** - Assistance developing technical regulations related to plumbing systems and water efficiency based on international standards.
- **PERSONNEL TRAINING & CERTIFICATION** - Resources to establish personnel certification criteria and training programs for regulators and for installers/designers which is requisite to building a qualified workforce.
- **CONFORMITY ASSESSMENT** - Assistance in establishing a strong conformity assessment program ensuring plumbing products comply with established safety and efficiency requirements and that market access requirements meet World Trade Organization best practices.

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### Authorization of EPA's WaterSense Authorization

WaterSense is a voluntary partnership program, not a regulatory program, created by the U.S. Environmental Protection Agency. It offers a simple way for consumers to identify water-efficient products and services. Plumbing products that have earned the WaterSense label have been certified to be at least 20% more efficient without sacrificing performance and have been verified by an independent, third party certification laboratory. Utilizing WaterSense-labeled products, consumers have saved more than \$46.3 billion in water and energy bills since the inception of the program. As a result of this program, businesses have developed more than 20,000 models of WaterSense-labeled products.



Recently, WaterSense was listed in an OMB memo as one of the programs to be cut in order to meet the budget reductions proposed in President Trump's FY 2018 budget request. However, there is broad bipartisan support on Capitol Hill to keep this program.

#### EXAMPLES OF SUPPORT FOR WATER SENSE

"The Committee...rejects the proposed elimination of the WaterSense program."

*H. Rep. 115-238 - Dept. of the Interior, Environment, and Related Agencies Appropriations Bill, 2018*

A 2017 EPA Inspector General report confirmed that EPA has the authority to operate the Water Sense program using authorities granted it by the Clean Water Act and Safe Drinking Water Act. The report further found that WaterSense is a "well-designed and managed program" and that it resulted in "consumer and industry confidence in WaterSense-labeled products, broad stakeholder support, and returns on investment." The report further found that the program had "controls in place to ensure that the water and energy savings it calculated were reasonable."

*EPA, Office of Inspector General, EPA's Voluntary WaterSense Program Demonstrated Success, 1 August 2017*

#### RELATED LEGISLATION DEMONSTRATING CONGRESSIONAL SUPPORT

- S. 1700 (*Water Efficiency Improvement Act*): Sponsored by Sens. Udall, Portman, Peters, Wyden, Graham, Gardner, Brown, Franken, Baldwin, Alexander. To cosponsor, contact [patrick\\_orth@portman.senate.gov](mailto:patrick_orth@portman.senate.gov) or [emma\\_locatelli@tomudall.senate.gov](mailto:emma_locatelli@tomudall.senate.gov)

The IAPMO Group Government Relations Office • 101 Constitution Ave. NW, Suite 825 East, Washington, DC 20001

- S. 1137 (*Clean Safe Reliable Water Infrastructure Act*): Sponsored by Sens. Cardin, Boozman, Inhofe, Duckworth. To cosponsor, contact joe\_brown@boozman.senate.gov or mae\_stevens@cardin.senate.gov
- S. 1460 (*Energy and Natural Resources Act of 2017*): Sponsored by Sens. Murkowski, Cantwell
- Related House Bills: HR 3248, HR 3275

#### **SUPPORTED BY**

- Hundreds of associations, manufacturers, utilities, water authorities and other stakeholders have publicly gone on the record and signed letters supporting the WaterSense program.

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## Conduct Demand-Side Water Research

There is a tremendous need for practical, demand side water research that can immediately inform actions that states and cities are taking to conserve vital water resources. The needs are diverse. For example, early research has found that strategies for conserving water in efficient buildings can lead to higher levels of bacteria in the plumbing systems, with potentially serious implications for public health. Additionally, as water reuse continues to grow, it is imperative that the United States address critical gaps in the understanding of health impacts of human exposure to constituents in reclaimed water. Finally, in its 2016 Report to Congress, the National Institute of Building Sciences recommended that Congress act swiftly to restart its plumbing research. It found that federal government leadership is essential to address the proper sizing of water pipes in buildings. Current water supply pipe-sizing methods were developed by NIST in the 1930s. The nation's plumbing codes have used these methods ever since. The federal government should initiate new research programs to develop and apply a modern pipe-sizing method. While the problem is complex, right-sized plumbing can improve water quality and increase water energy efficiency for the life of the building without adding cost.

Demand-side water research will inform drinking water infrastructure policy in very immediate and useful ways. This applied research will in-turn be incorporated into plumbing codes and impact generations of buildings.

#### **RELATED LEGISLATION DEMONSTRATING CONGRESSIONAL SUPPORT**

- H.R. 301 (*NIST Plumbing Research Act of 2017*): Sponsored by Rep. Cartwright & 7 additional co-sponsors

#### **SUPPORTED BY**

- National Institute of Buildings Sciences, High Performance Building Coalition, International Association of Plumbing and Mechanical Officials (IAPMO), Copper Development Association, Plumbing Manufacturers International, American Society of Plumbing Engineers, American Supply Association, International Code Council, and the Plumbing-Heating-Cooling Contractors Association.

UNPARALLELED EXPERTISE

CO-CONVENING ORGANIZATIONS

The sponsors, presenters, and panelists participating in this symposium represent a diverse body of knowledge in the fields of: water efficiency, plumbing, water quality, water distribution, sanitation and health, water reuse, water and embedded energy, HVAC, solar, geothermal and other renewable technologies, and fat, oil and grease (FOG) discharge mitigation.

During the networking portions of the event, you can openly discuss pertinent topics with these experts and develop strategies how these evolving dynamics can benefit you and your organization and can help provide for the safe and efficient delivery of water to buildings.

See what all the buzz is about! To learn more and to download presentations from past EWTs symposiums, go to [www.iapmo.org/Pages/EmergingWaterTechnologySymposium.aspx](http://www.iapmo.org/Pages/EmergingWaterTechnologySymposium.aspx)



### Hotel Accommodations

The 2018 EWTs will be held at the Ontario Doubletree Hotel in Ontario, CA. A special room rate of \$139.00 has been arranged for EWTs participants. Please contact the hotel directly at 1-909-937-0900z to reserve your room. Mention the Emerging Water Technology Symposium to secure the special room rate.



We are continually seeking new sponsors and abstracts on emerging technologies. Please contact Maria Bazan at 708-995-3007 for details or visit [www.iapmo.org/Pages/EmergingWaterTechnologySymposium.aspx](http://www.iapmo.org/Pages/EmergingWaterTechnologySymposium.aspx)

You are invited to **ATTEND** the

# EWTs

Emerging Water Technology Symposium

Learn | Share | Collaborate

THE ONTARIO  
DOUBLETREE HOTEL  
ONTARIO, CALIFORNIA

MAY 15 - 18, 2018

Co-Convened by



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EXTRAORDINARY  
OPPORTUNITY.



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PROCEEDINGS, AND  
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## REGISTRATION

Early bird registration available until 2/15/2018

US\$495

After 2/15/2018

US\$645

Method of payment:

Credit Card ( Visa  MasterCard  AMEX  Discover)

Card holder name: \_\_\_\_\_

Signature: \_\_\_\_\_

Credit Card #: \_\_\_\_\_

CVC #: \_\_\_\_\_ Exp date: \_\_\_\_\_

Credit Card Billing Address: \_\_\_\_\_

Refund policy: Cancellation on or before March 15, 2018 - full refund  
Cancellation on or after March 16 - no refund

### CEU's are available for attending the Emerging Water Technology Symposium!

Check all that apply:

- PE  P. Eng  
 CPD  Graduate Engineer  
 LEED AP  CET  
 Other

Certification (PE) State: \_\_\_\_\_

Certificate No.: \_\_\_\_\_

IACET and USGBC CEU's are also available.  
Requirements vary from State to State,  
please contact IAPMO to determine applicability.

### Learn, Share, Collaborate

- **Network** with industry, water efficiency, utility, manufacturer, inventor, government and academia participants
- **Discover** first-hand ideas and new approaches regarding emerging technologies coming to the market
- **Discuss** emerging issues challenging the plumbing and mechanical industries with top subject matter experts
- **Understand** international perspectives on challenges and opportunities on water and energy efficiency
- **Participate** during lively panel discussions dealing with timely issues facing our industries
- **Learn** about the unintended consequences of water efficiency and how they are being addressed
- **Find practical solutions** to new problems by seeing emerging technologies

**Bonus!** Visit the product showcase that will feature the latest innovations in the industry and have a chance to win a free registration to the 2020 EWTS!

Early registration is recommended  
Space is limited!

View video excerpts from past symposiums at  
[www.youtube.com/user/IAPMOGroup](http://www.youtube.com/user/IAPMOGroup)

### Secure Your Seats Right Now!

There are two ways to register:

1. Complete the form ONLINE:  
Go to [www.aspe.org](http://www.aspe.org) and click on the EWTS Registration Banner
2. Complete this form and MAIL it to:  
IAPMO, 18927 Hickory Creek Drive, Suite 220  
Mokena, IL 60448, Attention: Maria Bazan

Or scan and email to [maria.bazan@iapmo.org](mailto:maria.bazan@iapmo.org)

### Participant information

Name: \_\_\_\_\_

Representing: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

E-mail: \_\_\_\_\_