

## July 2021

### President's Report

Hello to all ASPE Members and friends,

A reminder that the 2021 ASPE Tech Symposium is September 22<sup>nd</sup> through 26<sup>th</sup> in San Diego. This is a premier opportunity for plumbing engineers and designers at all career levels to engage in productive technical exchanges and networking. The Tech Symposium starts off on Wednesday the 22<sup>nd</sup> with a various board and planning meetings.

The Product Show is Thursday and Friday (23<sup>rd</sup> and 24<sup>th</sup>). The industry's top manufacturers will be showcasing their newest products and teaching attendees how to apply them in their plumbing system designs.

The Technical Sessions begin Friday the 24<sup>th</sup> and goes through noon on Sunday the 26<sup>th</sup>.

Attendees can choose from a variety of professional development sessions in several tracks to customize their learning experience. Classes are designed to teach participants how to integrate the most current design techniques into their projects, with hands-on calculation and application examples.

Registration is open and the discounted hotel rate will be available until August 31<sup>st</sup>. More information can be found at the ASPE website ([aspe.org](http://aspe.org)).

*Mike Nickoson*

President



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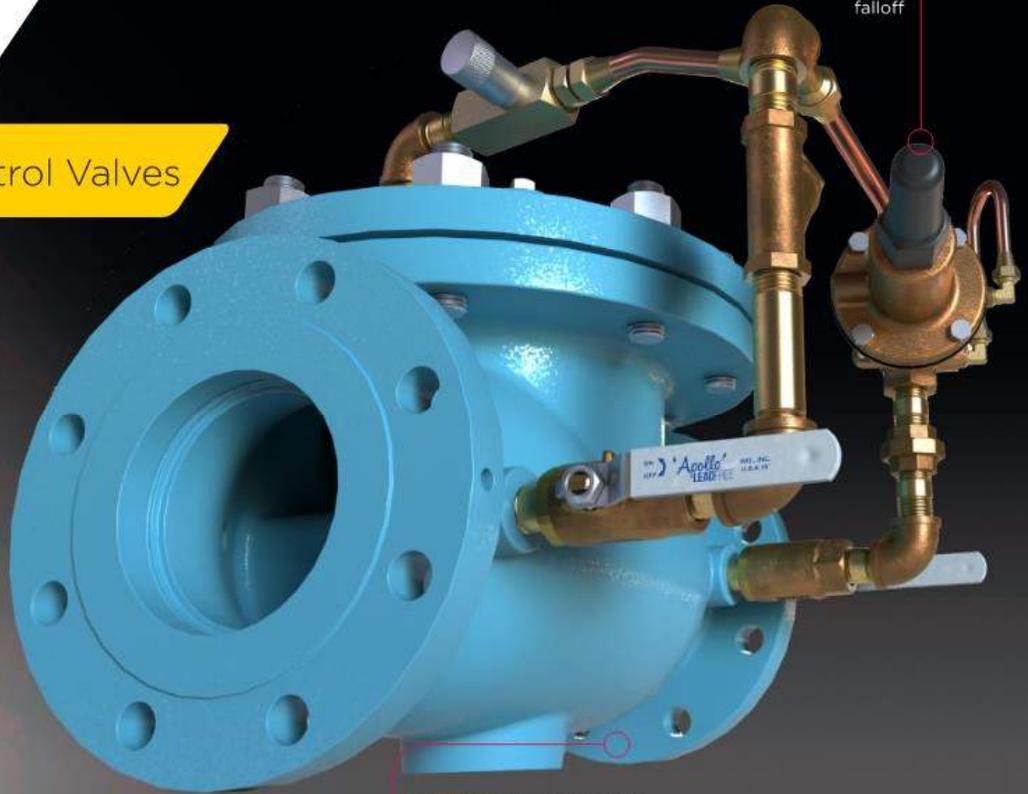
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## VP Technical—Bill Deardurff

Hello to all ASPE Members and friends, Hope you are having a good summer. I am working on the line-up of speakers for the upcoming meetings.

I have a request – If you have any ideas for design topics or new products you would like to hear about, please send me an email ([bdeardurff@dynamix-ltd.com](mailto:bdeardurff@dynamix-ltd.com)).

*Bill Deardurff*

Vice President Technical



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## VP Education—Brad Fitzsimmons

### ASPE Book of the Month

Through July 31, 2021, you can purchase the PDF version of *Pharmaceutical Facilities Plumbing Systems* for 35% off the regular member price. Just enter coupon code **SUMMERTIME** when you check out.

The fine print:

- Discount is only available for ASPE members.
- Discount can only be used on the PDF version of publications.
- If purchasing multiple items, the discount will be applied only to the assigned publication.
- The coupon code can only be used once.
- The coupon code cannot be used on top of the Chapter Officer discount.

Check [ASPE Pipeline](#), social media, and your inbox for news of upcoming Book of the Month discounts.

### On-demand Webinars

Did you know? You can register for ASPE Webinars that you may have missed. Visit <https://education.aspe.org/on-demand-webinars> to register and view the library.

### ASPE Read Learn Earn

Every month ASPE publishes a new 12-question quiz with an accompanying chapter or article from one of our publications. Each quiz is available for twelve months. Each quiz is free for ASPE Members and \$35 for nonmembers. Through this special series, ASPE can help you accumulate the CEUs required for maintaining

your Certified in Plumbing Design (CPD) or Certified Plumbing Design Technician (CPDT) status or numerous regulatory-agency CE programs.

July – Fire Protection Systems

Visit <https://education.aspe.org/RLE> to register

*Brad Fitzsimmons*

Vice President Education



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## VP Legislative—Mike Spengler

### IAPMO Seeks Members for Technical Committee for Construction Practices for Potable Water Guideline

The International Association of Plumbing and Mechanical Officials (IAPMO) is seeking volunteers to participate on the new Technical Committee for the *Construction Practices for Potable Water Guideline*. IAPMO is looking for experts who fall under one of seven different types of interest categories: manufacturer, user, installer/maintainer, research/standards/testing laboratory, enforcing authority, consumer, or general interest.

Systematic water management during construction of new buildings (including significant additions to the envelope of an existing building) can reduce the risk that the building water system begins its service life contaminated with pathogenic organisms such as *Legionella pneumophila* (the etiological agent responsible for most cases of Legionnaires' disease) and

can reduce the risk of infections of contractors and others at or near the site during the construction process. This standard will outline a process for developing guidance for contractors and subcontractors installing and managing building water systems during construction.

The deadline to apply is July 30. Anyone interested in serving on the new committee may complete the application online at [forms.iapmo.org/iapmo/committee/app\\_cppw\\_committee.aspx](https://forms.iapmo.org/iapmo/committee/app_cppw_committee.aspx).

For specific questions, contact Christoph Lohr at (909) 731-0219 or [christoph.lohr@iapmo.org](mailto:christoph.lohr@iapmo.org).

### PMI Annual Report Explores 5 Ways the Pandemic Changed the Plumbing Industry

The [2021 PMI Annual Report](https://www.safeplumbing.org/communications/pmi-annual-report-2021) (<https://www.safeplumbing.org/communications/pmi-annual-report-2021>) tells the story of a vital industry and explores how the pandemic year transformed five aspects of plumbing

(Continued on page 7)

## A GROWING FAMILY FOR A GROWING WORLD



### Introducing the Ultra Force® XL

The State Ultra Force® family of commercial water heaters is now **BIGGER THAN EVER** with the addition of the new Ultra Force XL. The XL model extends the Ultra Force family's input range up to 1 million BTU/h while maintaining a compact footprint. Built to meet most critical load requirements, the Ultra Force XL delivers superior performance and the ease of installation Ultra Force water heaters are known for.

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(Continued from page 6)

manufacturing: workplace safety, remote working, product innovation, supply chain, and diversity and inclusion.

1. **Workplace safety** To keep workers safe, LIXIL implemented a policy to quarantine any employee exposed to potential COVID-19 infection from the workplace for 14 days, with full pay. Because of the shortage of COVID-19 testing, LIXIL chooses not to wait for a positive test, instead quarantining individuals who exhibit symptoms or who are found via contact tracking to be near others who test positive. “It was tough because we had to send home (many) people, but the long-term thinking was that it kept the rest of our people safe and kept our plants operating,” stated Chris Marozzi, Leader of employees’ health and safety for LIXIL Americas.

2. **Remote work** Kohler Co. observed many positive consequences of shifting into remote work. “We saw an increase in the use of collaboration technology,” said Brian Kendall, Kohler’s Director of Operational Excellence. “Interactions grew significantly as we got better at it. Our decision-making improved, with colleagues being able to make decisions in real time, driving productivity gains and results.” Adam Guenther, Kohler’s Associate Director, Operational Excellence, said the company was surprised at “the intensity of work people were able to do from home. There was little to no loss in productivity because people were able to generate an increased number of work hours compared to where they were before,” to the point where the company encouraged employees to place boundaries on their work lives, he stated.

3. **Product innovation** While causing challenges on production lines and causing a shift to remote work, the COVID-19 pandemic created opportunities for the plumbing manufacturing industry to address a newfound concern many people now have: the spread of infectious viruses.

This change in public awareness has caused a spike in the sales of touchless plumbing products, with many PMI member companies reporting increased sales of both faucets and toilets with touchless features. “Touch-free is everywhere. It’s in every conversation. That’s foremost in

driving many of the innovation efforts at Bradley and throughout the industry,” stated Nate Kogler, Senior Director of Product Management at Bradley Corp.

4. **Supply chain** Rapid and unexpected developments caused by the pandemic have forced companies to monitor their supply chains continuously. “I have to look at all the raw materials that we need to make a product,” stated Elton Perkins, Director, Global Sourcing and Distribution, Fluidmaster, Inc., and Co-Chair of PMI’s Commerce Committee. “How many sources do I have for ABS (acrylonitrile butadiene styrene) or polypropylene, for example? Do I have enough qualified sources in my spec, so that if one supplier shuts down, I can choose a second? Frankly, I’m having to go three to four deep on various raw materials and qualifying a backup, and backup to backups, of suppliers to critical raw materials. And it’s constant.”

5. **Diversity and inclusion** As race and social justice issues took center stage after the murder

(Continued on page 9)



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(Continued from page 7)

of George Floyd, PMI member UL stepped up its diversity and inclusion (D&I) efforts to support its colleagues. “What we experienced last year was this eye-opening, this awakening for corporate America,” said Katrina Jackson, UL’s Global Head of Diversity and Inclusion. While UL had already established a formal “D&I ecosystem” with executive and leadership councils, global ambassadors and internal business resource groups, Jackson said the company wanted to be more transparent and set out to advance equity and achieve measurable progress. UL’s D&I team worked with the corporate sustainability group to establish a matching program for racial justice to impact the Black community overall.

### ASSE/IAPMO/ANSI Series 12000-2021 Now Available

ASSE/IAPMO/ANSI Series 12000-2021: *Professional Qualifications Standard for Water Management and Infection Control Risk Assessment for Building Systems* has been designated as an American National Standard by the American National Standards Institute (ANSI) and is now available.

ASSE Series 12000 sets minimum criteria for the training and certification of pipe trades craftspeople and other construction and maintenance personnel on how to safely work in environments with potentially deadly diseases. The standards within the Series 12000 address the need for all construction and maintenance personnel and employers, especially within the pipe trades, to become proficient in identifying and managing potential situations where they, or other occupants of a building, may be exposed to bloodborne, waterborne, and airborne pathogens.

ASSE/IAPMO/ANSI Series 12000-2021 contains eight standards, including Standard #12010 for Environment of Care, Infection Control, and Construction Risk Assessment; #12020 for Environment of Care, Infection Control, and Construction Risk Assessment for Construction and Maintenance Employers; #12060 for Employers and Designated Repre-

sentatives of Water Quality Programs; #12061-12063 for Water Quality Program Plumbers, Pipefitters and HVAC Technicians, and Sprinkler Fitters; and #12080 for Legionella Water Safety and Management Specialists. Infection Control Risk Assessment (ICRA) and Water Infection Control Risk Assessment (WICRA) matrixes and other supplemental resources are included in Appendices A–E.

To purchase ASSE/IAPMO/ANSI Series 12000-2021, please visit the ASSE International Webstore at [assewebstore.com](http://assewebstore.com). For questions regarding the standard series, contact Waickman at [marianne.waickman@asse-plumbing.org](mailto:marianne.waickman@asse-plumbing.org) or (708) 995-3015.

### ASHRAE Releases Updated Building Reopening Guide

(Continued on page 11)

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(Continued from page 9)

As the performance of many HVAC systems in buildings is still being evaluated, the ASHRAE Epidemic Task Force has updated its building reopening guidance for HVAC systems to help mitigate the transmission of SARS-CoV-2.

“The [Building Readiness Guide](#) includes additional information and clarifications to assist designers and commissioning providers in performing pre- or post-occupancy flush calculations to reduce the time and energy to clear spaces of contaminants between occupancy periods,” said Wade Conlan, ASHRAE Epidemic Task Force Building Readiness team lead. Major updates to the building readiness guidance include the following:

**Pre- or Post-Flushing Strategy**

**Methodology**

**Flushing Time Calculator**

**Heating Season Guidance**

**Adjustments to Align with Core**

**Recommendations:** The [Core Recommendations were released in the last month](#), and this guidance document needed to be

updated to ensure that the information provided aligned with the intent of those recommendations. This included minimum outdoor air supply and filter efficiency requirements and their role in an equivalent outdoor air supply-based risk mitigation strategy.

The guidance still addresses the tactical commissioning and systems analysis needed to develop a Building Readiness Plan, increased filtration, air-cleaning strategies, domestic and plumbing water systems, and overall improvements to a system’s ability to mitigate virus transmission.

To view the complete ASHRAE Building Readiness Guide and other COVID-19 resources, visit <https://www.ashrae.org/technical-resources/resources>.

**Two New ICC Building Code Tools Available Online**

The International Code Council has launched two online building code tools for building safety professionals and the public to access free information about building code usage in their communities.

Created in partnership with the Federal Alliance for Safe Homes (FLASH) and the Insurance Services Office (ISO), the [U.S. Code Adoption Database](#) (<https://codeoptions.iccsafe.org/>) is an interactive map that shares code adoption information at the state and local level. A one-of-a-kind U.S. code adoption tool, the database displays which codes are adopted within each state/jurisdiction and provides context and links to access further code information.

The database also contains a color-coded map for each of the 15 International Codes (I-Codes)—the most widely used model building codes in the world—showing statewide code adoptions around the U.S. The most current adoption information is maintained across the site through a collaboration effort between the Code Council, FLASH, and ISO.

The [Global Building Codes Tool](#) (<https://www.iccsafe.org/products-and-services/global-services/global-codes/>) provides information about the building codes and standards used in countries around the world. Users may select a country from the world map to view information about the respective building safety regulation agencies, and the building codes and standards referenced and enforced within that country. The tool is designed to help manufacturers and designers who are interested in exporting their products and services to markets outside the United States, as well as to government officials around the world who are monitoring these regulations which impact market entry.

*Mike Spengler*

Vice President Legislative

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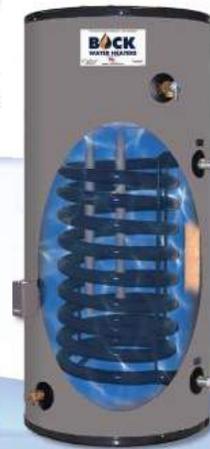
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## VP Membership—Tim Firlik

Hello Central Ohio ASPE Chapter. I would like to start off by introducing myself. My name is Tim Firlik and I am a Plumbing Designer for AECOM Columbus. I have recently taken over the VP of Membership position for our local chapter. I look forward to increasing membership and growing our chapter. I look forward to scheduling a new member social hour in the coming months. If you have any young engineers or staff that are not yet members of ASPE please send them my way and we will get them recruited.

*Tim Firlik*

Vice President Membership

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### TEST REPORT

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<http://www.iapmortf.org>

Report Number: 2516-18001-002 Project No.: 20225  
 Report Issued: February 26, 2018.  
 Client: Aqua-Rex  
 3301 Spring Mountain Road Ste 18  
 Las Vegas, NV 89102 Contact: Josny Secombe  
 Source of Samples: The samples were shipped to IAPMO E&T Lab from Aqua-Rex, and received in good condition on October 11, 2017.  
 Date of Testing: October 25, 2017 through December 15, 2017.  
 Sample Description: Scale Prevention Device, model: Aqua-Rex WK1-E.  
 Scope of Testing: The purpose of the testing is to determine the efficacy of the Scale Prevention Device per section 5 of IAPMO IGC 315-2018, entitled "Rapid Scaling Test for Scale Prevention Devices".

CONCLUSION: When tested per Section 5 of IAPMO IGC 315-2018, Aqua-Rex WK1-E reduced scaling by 83% when applied to Las Vegas water heated to 180°F.

Tested by,

Reviewed by,

*Hank Nink*  
 Hank Nink, Project Engineer

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 Sean Vun, P.E., Manager, Specialty Projects



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## **Meet Laura Loziuk**

Laura is a Technical Service Manager in the McWane Plumbing Group covering the Northeast region. If you're worried your project is going downhill, and you need advice on your cast iron DWV plumbing system design, contact Laura. She knows a little something about steep terrain as she's an avid mountain biker.

Contact Laura to learn more about the benefits of a cast iron drain, waste, and vent plumbing system.



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# ASPE

TechSymposium2021

# PRODUCT SHOW

September 23 & 24 // San Diego Marriott Mission Valley

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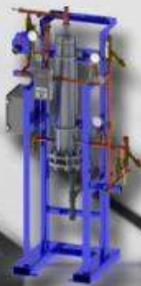
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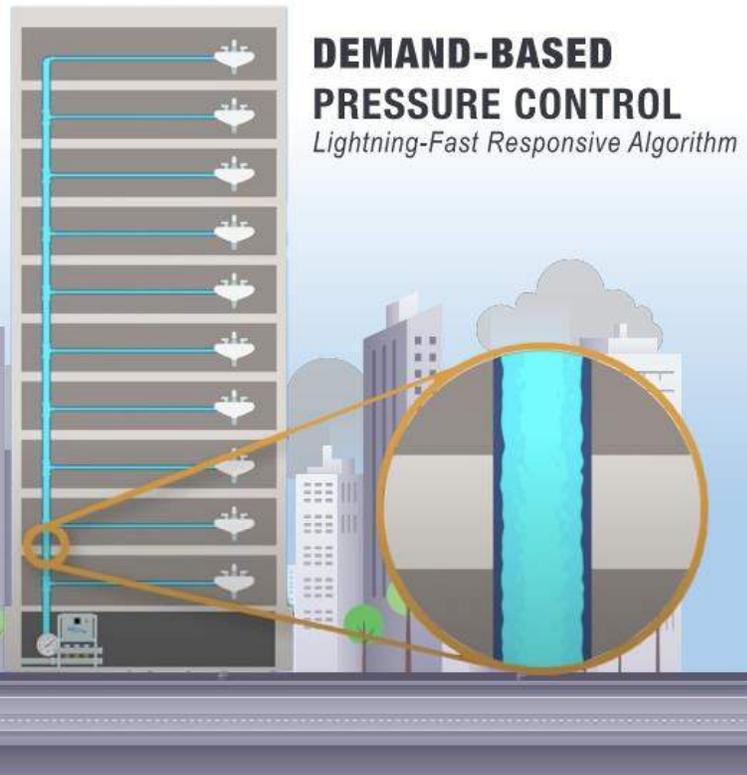
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## ASPE CENTRAL OHIO CHAPTER 2020-2021 MEETING and EVENT SCHEDULE

September 14, 2020	Laboratory Gas Systems
October 12, 2020	Acid Waste Pipe
November 9, 2020	Electric Tankless Heater Design Applications and Pitfalls
December 14, 2020	Commercial Valves 101
January 11, 2021	Water Conditioning
February 8, 2021	Not All Alloys are Created Equal
March 8, 2021	MedGas—Choosing the Technology
April 12, 2021	Pipe and Equipment Insulation
May 10, 2021	The Benefits of the Re-imagined CO2 Domestic Water Heat Pump

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