

## May 2021

### President's Report

Hello to all ASPE Members and friends,  
Looking forward to our REAL meeting next  
Monday, May 10. You can also join us on-line if  
you wish.

#### **ASPE Tech Symposium - San Diego – Sept. 22-26**

Mark your calendar and start planning now. I  
heard that registration has just opened up.

#### **Road to San Diego Membership Drive**

You get three points for every nonmember who  
signs up for the free trial, so you can rack up  
points fast by spreading the word about ASPE  
Connect. To learn more tips on how to cross  
the finish line in first place, visit **ASPE Pipeline**.

**The Golf outing is ON for June 15!** Watch for  
more information.

Also, members watch your email for the 2021-  
2022 Ballot for the Central Ohio ASPE Board of  
Directors.

- Please give this some thought.
- Please return them.

Remember, work is very important. But it is not  
the Most important part of your life.

*Bill Deardurff*

President

### May In Person Lunch Meeting and WebEx Technical Presentation

**May 10th, 2021**

#### In Person

**Spaghetti Warehouse**

**397 West Broad**

**Columbus, OH 43215**

**11:30 PM—1:00 PM**

**\$20.00 — members; \$25.00 — non-members**

#### WebEx Technical Presentation

**12:00 PM—1:00 PM**

**Free— members; \$25.00— non-members**

**SUBJECT: What's Old is New Again: The  
Environmental & Operational  
Benefits of the Reimagined  
CO2 Domestic Water Heat  
Pump**

**SPEAKER: Andrew Macaluso and  
Ryan Brown,**

**WATTs Water Technologies**

Andrew is the Product Manager of Systems Solutions at Watts Water Technologies, Heat and Hot Water Solutions division. Andrew has led the introduction of many cutting-edge technologies, including the newest commercial heat pump water heating technologies. He is an ardent advocate for highly efficient, environmentally friendly technologies and is passionate about applying those technologies where they can have the greatest impact. Andrew holds a Bachelor of Science in Mechanical Engineering from Columbia University, and is an active ASPE member.

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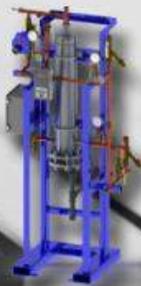
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## VP Technical—Mike Nickoson

We are finishing the ASPE year with a presentation on the environmental and operational benefits of the reimagined CO2 domestic water heat pump. Our presenter for this meeting is Andrew Macaluso. Andrew is the Product Manager of Systems Solutions at Watts Water Technologies, Heat and Hot Water Solutions division. Andrew has led the introduction of many cutting-edge technologies, including the newest commercial heat pump water heating technologies. He is an ardent advocate for highly efficient, environmentally friendly technologies and is passionate about applying those technologies where they can have the greatest impact. Andrew holds a Bachelor of Science in Mechanical Engineering from Columbia University, and is an active ASPE member.

As always, if there is a topic that you would like to see covered next year, please let me know. This will be my last meeting as the Vice Presi-

dent Technical, but I will forward any suggestions to the incoming person.

I look forward to seeing everyone (hopefully in person) next fall.

*Mike Nickoson*

Vice President Technical

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## VP Education—Brad Fitzsimmons

### ASPE Book of the Month

Through May 31, 2021, you can purchase the PDF version of *Pumps & Pump Systems II* for 35% off the regular member price. Just enter coupon code **SUNSHINE** 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.

May – Vents and Venting

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

*Brad Fitzsimmons*

Vice President Education

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### Case Study: Panorama Towers, Las Vegas, NV.

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# AQUAREX



### TEST REPORT

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<http://www.iapmoertl.org>

Report Number: 2536-18001-002 Project No.: 29225  
Report Issued: February 26, 2018.  
Client: Aqua-Rex  
3301 Spring Mountain Road Ste 18  
Las Vegas, NV 89102 Contact: Jonny Seccombe  
Source of Samples: The samples were shipped to IAPMO R&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 335-2018, entitled "Rapid Scaling Test for Scale Prevention Devices".  
CONCLUSION: When tested per Section 5 of IAPMO IGC 335-2018, 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

*Sean Vu*  
Sean Vu, P.E., Manager, Specialty Projects



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## VP Legislative—Mike Spengler

### ASHRAE and ICC Release New International Green Construction Code User's Manual

ASHRAE and the International Code Council (ICC) have announced the release of the [2018 International Green Construction Code® \(IgCC®\) User's Manual](#). The manual provides readers with an understanding of the requirements of the code and how those requirements may be met. The publication contains sample calculations, forms to demonstrate compliance, and references to helpful resources and websites.

“As the demand for green building design, construction, and operational techniques continues to grow, the IgCC remains one of the many strong solutions that help communities establish sustainable, resilient, high-performance buildings,” said Code Council Executive Vice President Mark Johnson. “The new IgCC user's manual provides resources that aid the career development of building safety professionals,

which is key to our efforts to welcome the next generation of industry leaders and lead the way to sustainable and resilient building.”

The user's manual is intended to support the entire building industry, including architects, engineers, contractors, building officials, and other building professionals applying the 2018 IgCC. The publication offers a corresponding chapter for each chapter of the 2018 IgCC. The 2018 IgCC User's Manual is [now available for preorder](#).

### 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.

(Continued on page 8)

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(Continued from page 7)

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 Representatives 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

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.

(Continued on page 10)



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TRITON

(Continued from page 8)

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://codeadoptions.iccsafe.org/) (<https://codeadoptions.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/) (<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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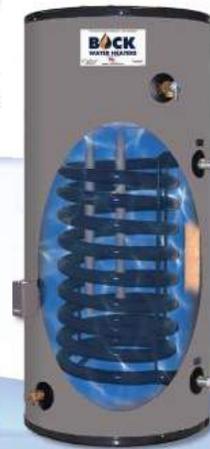
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Laura is a Technical Service Manager in the McWane Plumbing Group covering the Northeast region. If you're worried your project is going downhill, and you need advice on your cast iron DWV plumbing system design, contact Laura. She knows a little something 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 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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