

September 2020

President's Report

Hello to all ASPE Members and friends,

The 2020 ASPE Convention & Expo is Cancelled

There will be an on-line business meeting on Saturday Sept. 12.

All members should have received an email with copies of the proposed bylaws changes. Please review them and let me know if you have an opinion.

The "national" organization is working on a series of additional Technical and/or product webinars to be released as an "on-line" Product Show and Technical Session in December.

Looking forward to our "Virtual" meeting next Monday, Sept. 14.

We are planning for on-line meetings at least from now until Christmas.

We are considering a Sporting Clays event in October. Watch for more info.

Hope you can stay busy without being crazy-busy.

Stay safe!

Keep your "Social Distance",

Bill Deardurff

President

September WebEx Technical Presentation

September 14, 2020

11:30 PM—12:30 PM

Free— members; \$Free— non-members

SUBJECT: Laboratory Gas Systems

**SPEAKER: Kevin Coyne,
Concoya**

Kevin has been in the gas industry for over 27 years and 17 years as a Specialty Gas Salesman/Manager for Praxair. The last 10 years Kevin has worked for Concoya as a Territory Sales Engineering covering 16 states. Concoya is the largest independent Gas equipment supplier in the US and is headquartered in Virginia Beach, VA. Kevin's main focus at Concoya is to help distributors and end users with selecting the correct gas equipment for their applications.



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VP Technical—Mike Nickoson

You may have already seen that ASPE recently canceled their 2020 Convention and Expo. Since we had originally rescheduled our September meeting due to a conflict with the convention, the board has decided to move our September meeting back to the regularly scheduled day and time. The September meeting will be on Monday September 14th at noon. It will still be an online meeting and the invite will be sent shortly.

We will be kicking off the 2020/2021 ASPE year by welcoming Kevin Coyne from Concoa. Kevin has been in the gas industry for over 27 years and 17 years as a Specialty Gas Salesman/Manager for Praxair. The last 10 years Kevin has worked for Concoa as a Territory Sales Engineering covering 16 states. Concoa is the largest independent Gas equipment supplier in the US and is headquartered in Virginia Beach, VA. Kevin's main focus at Concoa is to help distributors and end users with selecting

the correct gas equipment for their applications.

Kevin's presentation will focus on modes of supply, piping design, handling and storage of Inert, flammable and oxidizing gases for laboratories.

We have speakers currently slated to round out 2020 and we're in talks with several others to speak at our meetings in the new year.

October: Josh Brodsky with Schott Glass to cover Acid Waste Pipe

November: David Tvergyak with Hubbell Water Heater to speak about Electric Tankless Heater Design Application and Pitfalls

December: Aaron Kilburg & Amanda Miller with NIBCO to discuss the basics of plumbing valves with a Commercial Valves 101 presentation.

Mike Nickoson

Vice President Technical

COVID-19 AND ITS EFFECT ON YOUR BUILDING WATER HEALTH



Preventing the Amplification of Waterborne Pathogens in Low Occupancy Buildings in Times of National Crises

The critical actions taken to slow and prevent the spread of COVID-19 worldwide, such as physical distancing and temporary shutdowns of businesses, have resulted in an unprecedented decline in the utilization of water in commercial, education, hospitality and manufacturing facilities. While we manage the risks from COVID-19, it is critical that we also control the physical, microbiological and chemical risks associated with low- or non-operating building water systems.

TOP RISK AREAS

The top risks we see in buildings with low or no utilization during this time are:



Amplification of *Legionella* and other waterborne pathogens due to water age



Leaching of lead and other metals into water distribution systems, causing drinking water quality issues



Expedited corrosion of plumbing components leading to premature pipe failure and unexpected costs for emergency repair



NOT ALL BUILDINGS ARE CREATED EQUAL

Since each building and the combination of water systems is unique, it is critical to follow site-specific procedures, so your water management strategies prevent additional public health hazards. If you have a water management plan, it should be updated to reflect risk management strategies during COVID-19 operating conditions. If a water management plan is not in place, one should be created.

Which building types are most likely at risk?



Commercial



Educational/Cultural



Hospitality



Manufacturing



Medical

PRACTICAL STEPS FOR RISK PREVENTION

There are several practical steps that can be taken to help prevent risks from amplifying in your building:

1

Keep water flowing to reduce water age

2

Strategically monitor disinfectant residuals

3

Maintain routine treatment of cooling towers and other aerosol-generating water systems

4

Control water temperature ranges to reduce amplification of *Legionella* and other waterborne pathogens

5

Put in place water quality monitoring strategies (disinfectant residual, pH, temperature, microbiological analysis)

6

Keep your records updated and defensible (verification and validation)

7

Incorporate water safety into your business continuity plans. Prior to returning to normal service, a site-specific plan for evaluating and documenting the safety of water systems must be prepared.

TAKING ACTION



Acting now will help control amplification of risks during COVID-19 operations and expedite your building returning to normal operations knowing waterborne disease and lead exposure risks have been properly managed.

For more information about how NSF's building water health experts can help you minimize the risks associated with all water systems in your buildings or facilities during these uncertain times, email us at buildingwaterhealth@nsf.org.

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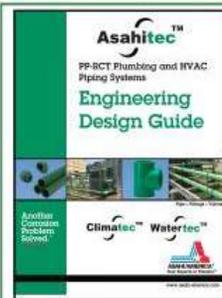


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VP Legislative—Mike Spengler

Ohio Board of Building Standards Storm Shelter Moratorium

The Board of Building Standards has updated its BBS Memo regarding the moratorium for storm shelters in Group E occupancies to include the following:

September 2020 Update: HB 164 adopted by the Ohio General Assembly on June 11, 2020, amended R.C. 3781.1010 to extend the storm shelter moratorium to November 30, 2022.

If you have questions related to information contained in the Memo, please contact the Board's technical staff at 614-644-2613 or at bbs@com.state.oh.us

ICC Releases Recommended Practices for Remote Virtual Inspections

The International Code Council recently published "[Recommended Practices for Remote Virtual Inspections](#)," a guideline document that governmental jurisdictions should consider for an effective and consistent remote virtual inspections program. The publication is based on study, research, and discussions from the Code Council's membership (including responses to an earlier Code Council survey of U.S. code officials on COVID-19 response), partners, and industry experts.

For more information, check out these resources:

[Publication](#) – Available for [free download](#) or purchase print copies

[Infographic](#) — Keys to Success to Remote Virtual Inspection: The Value of Communication

(Continued on page 6)

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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ASHRAE Introduces Updated Reopening Guide for Schools and Universities

The ASHRAE Epidemic Task Force has developed guidance on the operation of HVAC systems to help mitigate the airborne transmission of SARS-CoV-2 as schools prepare to reopen for the fall academic year.

The 41-page Presentation includes convenient checklists to prepare educational buildings to resume occupancy such as starting up HVAC systems as well as checks and verifications to maintain during the academic school year. The guidance is meant to provide practical information to school districts and university campus environmental health managers, facility managers, administrators, technicians, and service providers.

The guide includes the following topics:

- Determining Building Readiness
- Equipment & System Specific Checks & Verifications During the Academic Year
- New/Modified Facility Design Recommendations
- Filtration Upgrades
- Operations of Occupied Facilities
- Controlling Infection Outbreak in School Facilities
- Higher Education Facilities Recommendations

Also included is guidance formulated to help designers retrofit and plan for the improvement of indoor air quality and to slow the transmission of viruses via the HVAC systems as well as new guidance on student health facilities, laboratories, athletic facilities, residence halls, and large assemblies, lectures, and theaters.

For the complete ASHRAE Epidemic Task Force school reopening guide and other COVID-19 resources, visit [ashrae.org/COVID-19](https://www.ashrae.org/COVID-19).

IAPMO, AWWA to Develop Manual of Recommended Practice

The International Association of Plumbing and Mechanical Officials (IAPMO) and the American Water Works Association (AWWA) have entered into a Cooperative Development Agreement to develop a Manual of Recommended Practice to support providing safe and effective water efficiency and water quality provisions for the built environment.

Titled *Recommended Practices for the Safe Shutdown and Startup of Building Water Systems Due to Emergency*, the manual will be developed and administered by IAPMO's Codes and Standards development resources under a set of development procedures jointly established and agreed to by IAPMO and AWWA. A committee of subject matter experts appointed by IAPMO and AWWA will oversee its creation. "We're excited about the agreement to codevelop the Manual of Recommended Practice with AWWA," IAPMO CEO GP Russ Chaney said. "Both organizations are leaders in developing standards and guidelines pertaining to the safe management of water. This agreement will work to ensure that lessons learned from the horrible COVID-19 pandemic will be captured and put into practice. Considering the profound water scarcity and water quality challenges that both organizations will be confronted with in the years ahead, we suspect that this will be the first of many programs where AWWA and IAPMO will collaborate to provide solutions that work to keep water systems safe."

"Protecting the water quality in buildings impacted by emergency shutdown actions is a shared area of concern and emphasis for AWWA and IAPMO," said AWWA Senior Manager of Standards Paul J. Olson, PE. "We are pleased to be a part of this joint effort to provide expert guidance on safe practices to protect public health, which is AWWA's first core principle."

FGI to Establish Committee and Develop Guidelines for Emergency Conditions

The Facility Guidelines Institute (FGI) has received numerous requests for guidance on setting up temporary facilities and adapting existing facilities in response to the COVID-19 pandemic.

(Continued from page 6)

ic. While not adding to the “noise” of information currently circulating, FGI has a responsibility to respond to this need by doing what it does best: establishing baseline planning and design standards for health and long-term care facilities. Therefore, FGI is convening a special committee to assemble design guidance for facilities during emergency situations caused by weather, pandemics, wildfires, and other emergency situations.

The committee will be responsible for creating a white paper with draft *Guidelines* requirements and lessons learned from past local and national emergencies such as COVID-19. This white paper will become the basis for a new *Guidelines* standard on design of facilities that can readily be adapted during emergency conditions. The goal is to have the peer-reviewed white paper available by the end of this summer and to release the supplemental *Guidelines* standard with the 2022 *Guidelines* edition in early 2022.

In the midst of the pandemic, everyone is looking for answers on how to adapt the built environment to respond to the crisis. It will take time to evaluate the efficacy of the interventions being deployed in facilities across the nation, but FGI—working with partner organizations—is committed to taking the lessons from this pandemic and applying them to a new *Guidelines* standard that will help health care organizations safely and efficiently navigate emergency or epidemic conditions that may arise in the future.

Source: *Facility Guidelines Institute*

Mike Spengler

Vice President Legislative



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VP Education—Brad Fitzsimmons

ASPE Book of the Month

Through September 30, 2020, you can purchase the PDF version of *Engineered Plumbing Design II* for 35% off the regular member price. Just enter coupon code **ENDOFSUMMER** 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.

Upcoming Webinar – Introduction to Heat Pump Water Heaters

September 22, 2020 2:00 PM (EDT)

This educational presentation provides an introduction to the design of heat pump water heaters and their applications. This one-hour webinar will review the basics of heat pump technology, how the various types of HPWHs are designed, and provide insight into the pertinent details of applications and sizing. Participants will learn the key factors to consider when designing a domestic hot water system utilizing heat pump water heaters.

Content Outline:

Heat Pump Technology Overview – 10 minutes

Heat Pump Water Heater Design – 10 minutes

Factors Affecting Domestic Hot Water System Design – 30 minutes

Hands-On Sizing Example – 10 minutes.

The webinar is being held on September 22 at 1 pm CDT and awards 0.1 CEUs for participation. This webinar is sponsored by A.O. Smith and they will receive the names and email addresses of registered attendees.

Pricing:

ASPE Members - Free
Nonmembers - \$130

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.

September – Pump Components

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

Brad Fitzsimmons

Vice President Education

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- * Jason International: Founded by the Jacuzzi family. Manufactured in Arkansas. Experience Microsilks bathing!
- * Hansgrohe: faucets with emphasis on design and performance. Extraordinary collection for extraordinary environments
- * Thermasol: experience steam showering....Making wellness a way of life

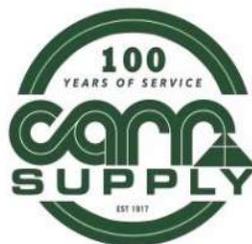
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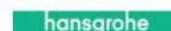
Appointments are recommended and appreciated... but you are always welcome to browse the showroom on your own.

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Region 2 Affiliate Liaison — Dann Holmes



Region 2 Affiliate Report

Shall I Stay or Shall I go...Back to Work?

The Chinese Wuhan coronavirus (aka CoVID-19) continues to impact our daily lives. We have transitioned to virtual meetings, wearing masks to enter any business. Restaurant menus are a mere shadow of what they once were leaving dining options limited, at best. Have you traveled for business or pleasure and stayed at a hotel lately? A brown-bag breakfast is about the best you'll get.

I'm still working, but from home. I have returned to traveling for business travel but with many unpleasant restrictions. Some of the clients I visit include food & beverage and healthcare facilities and they must be at work. Many plumbing and heating engineers are back in their office. I can tell you, unless someone is alone in their office without their mask on, this practice to control the spread of the Wuhan coronavirus is having a major impact on our personal life and mental acuity.

Building owners are realizing they don't need to have a large facility to conduct business. It is no longer business as usual for any of us. They can sell their real estate and downsize to optimize their operations. They can cancel any planned new construction. They will need to do this soon or the real estate market could collapse before they act leaving many businesses under water.

As I've written about in previous articles, a major reduction in building water usage creates hazardous conditions ripe for waterborne pathogens to grow and corrosion concerns to multiply.

Plumbing systems and associated equipment like cooling towers, pools, decorative fountains, hot tubs, ice machines, drinking fountains, bottle fillers, and kitchen equipment are just a few of the locations you must pay attention to. Going around the building and flushing a few fixtures will not minimize problems that lurk in these pipes. There is a sequence to flushing that should be executed correctly

and it starts with a full understanding of the building water system and the risks associated at every change of direction and usage.

If there hasn't been a continuous call for water at a level that the building was designed for, then there is an increased risk that the floor drains and trench drains may have dried out. This could lead to sewer gases entering the built environment.

Parents with school age children are praying to get their kids back to school and an organized lesson plan. Children, like many of us adults need to engage with friends and colleagues. They need to be mentored. No one wants to admit that this "lock-down" imposed on the citizens of our great country is having a devastating effect on our young. The CDC just released a study that found that 25% of young people have considered suicide during the outbreak.

Do you feel confident the school your children, or grandchildren will return to will be thoroughly assessed for the potential waterborne risks that have taken place during its closure? I would not bet on it.

We must ask ourselves; what are we doing? What are the long-term unintended consequences of our social distancing? To me, the correct term should be physical distancing. We can't visit our elderly, many of whom have been lock up in a nursing home or long-term care facility. I can't imagine what thoughts must be going through their minds. Like, what did I do to deserve this sentencing? I didn't commit a crime. In fact, convicted criminals are being released from prisons but we can't visit our grandparents.

Sadly, this "pandemic" will last until November 3rd at the earliest. One must ask themselves how does a virus know when we vote? When it becomes a political football. Let's get this game over with and really get back to work.

The impact of lessoned learned during CoVID-19 will be referenced by plumbing and mechanical engineers forever.

Dann Holmes – ASPE Region 2 Affiliate Liaison
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Our 90+ [one-hour on-demand webinars](#) offer a convenient way to learn a new skill or brush up on some design techniques. Presented by experts instructors, the webinars cover a wide range of plumbing system design specialties, including fire protection, Legionella mitigation, domestic water systems, rainwater and storm-water harvesting, piping, valves, and fittings, roof drainage, natural gas systems, LEED, solar thermal technology, and more, as well as leadership and communications skills. Each webinar offers 0.1 CEU after completion of the post-webinar quiz, and many of the webinars are [free for members of ASPE](#).

[Read, Learn, Earn](#) is a popular program that provides up to 1.2 CEUs per year. Each month a new RLE article is presented, accompanied by a 12-question quiz. If you score 90 percent or higher on the quiz, you are immediately awarded 0.1 CEU. Read, Learn, Earn is free for ASPE members and \$35 per quiz for nonmembers.

Also at ASPE Education, you can find recorded technical sessions from the [2019 ASPE Tech Symposium](#) and the [2018 ASPE Convention & Expo](#). ASPE members also can access PDF downloads of all four volumes of the [Plumbing Engineering Design Handbook](#).

You can start learning and earning CEUs right now at education.aspe.org.

A rectangular advertisement for BWA South, a manufacturer's representative. The top left features the 'BWA SOUTH' logo in a stylized font. To its right, text reads 'Manufacturer's Representative of quality plumbing products since 1956'. Below this, a grid of logos for various plumbing brands is displayed: ZURN, ASI GROUP (PARTITIONS, ACCESSORIES, LOCKERS), WILKINS (a ZURN company), IPS CORPORATION, ZURN GreenTurtle, WILLOUGHBY, Rheem (The new degree of comfort.), CHARLOTTE PIPE AND FOUNDRY COMPANY, Green Drain™ (Waterless Trap Seal for Floor Drains), cd comfortdesigns, BASCO SHOWER ENCLOSURES, SW STERN-WILLIAMS, ELKAY, and IDEAL. At the bottom, a grey bar contains the text 'Visit us at WWW.BWASOUTH.COM'.

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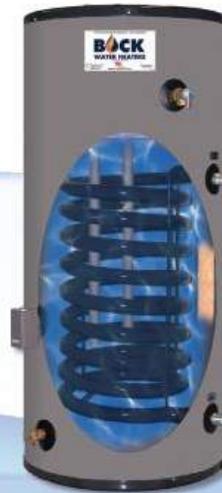
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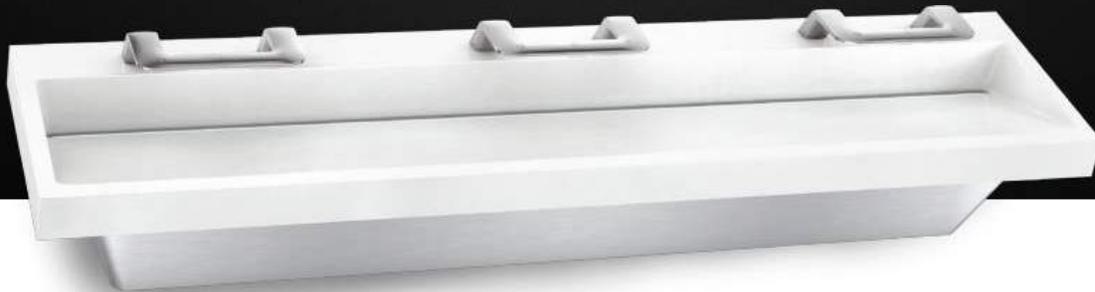
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ASPE CENTRAL OHIO CHAPTER 2020-2021 MEETING and EVENT SCHEDULE

| | |
|--------------------|---|
| 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 |

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