

July 2020

President's Report

Hello to all ASPE Members and friends,

The 2020 ASPE Convention & Expo is still being planned for September 11-16

ASPE's Convention & Expo is the only event designed to enhance the professional development, technical education, and career growth of plumbing engineering professionals, and next year it is being held in New Orleans on September 11-16. At the 2020 ASPE Convention & Expo you will discover game-changing innovations, profitable solutions, and new ideas to maintain your competitive edge. Combining professional development sessions designed exclusively for plumbing industry professionals with the largest plumbing tradeshow in the country, the 2020 ASPE Convention & Expo will be the must-attend event of the year.

Learn Productive Email Behaviors at Our August Webinar

Do you have an inbox full of emails and don't know where to start? Do you feel captive to every message and check your email during off-work hours?

On August 12 at 2 p.m. EDT, ASPE Young Professionals is hosting a new one-hour webinar, "[Email Extinguisher: Simple Steps to Shrink the Inbox.](#)" Presenter Marcey Rader will help you:

- Overcome email anxiety and addiction
- Shrink your inbox with rules, filters, and newsletter organization
- Communicate effectively to shut down with Inbox Zero

This webinar will cover the two most common platforms—Outlook and G Suite—and productive email behaviors for any system. It will discuss how to communicate, simple shortcuts, and a clear plan on how to shrink the inbox. Participants will receive an electronic resource guide and cheat sheet to continue the work after the webinar is over.

CEUs are not awarded for participation in this webinar. It is free for ASPE members and \$130 for nonmembers. Registration is available at [ASPE Education](#).

(Continued on page 3)



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(Continued from page 1)

Presenter: Productivity expert Marcey Rader has turned the spotlight on the link between business success, productivity, and health. As the founder of Work Well. Play More! she works with leaders who want to kick their teams into balanced gear—without sacrificing their health. She’s an award-winning speaker, online course creator, and the author of three books. Off-camera, Marcey is married to Kevin, a professional drummer. She lives in Raleigh, North Carolina, where you can find her burning brush in her backyard for pandemic entertainment.

Stay safe!

Keep your “Social Distance”,

Bill Deardurff

President

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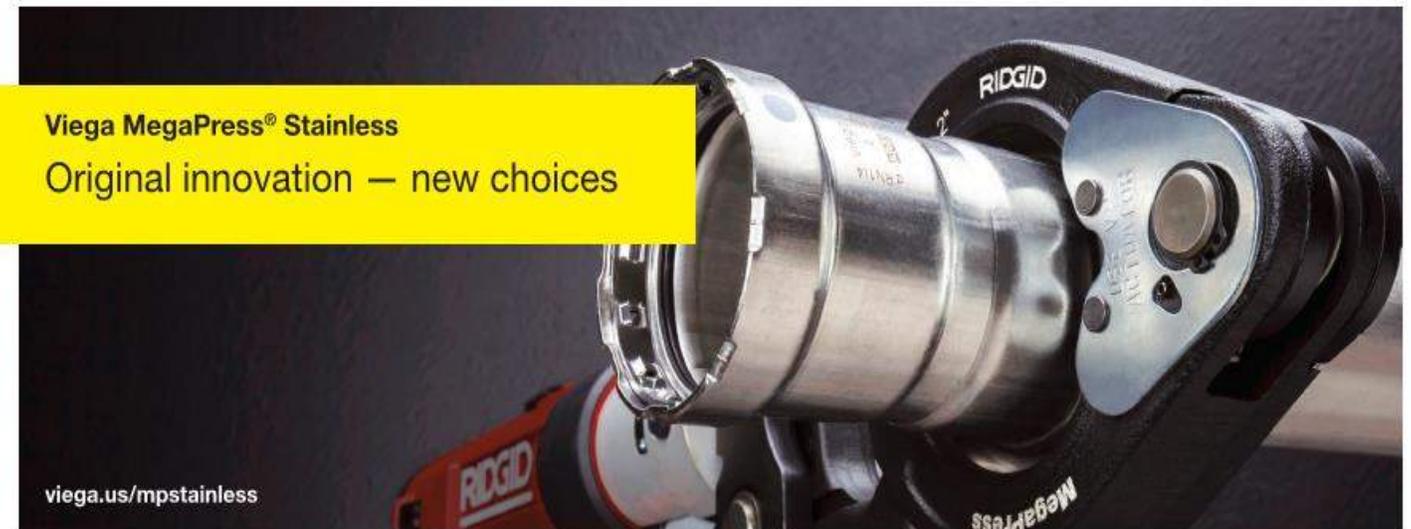
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VP Technical—Mike Nickoson

I hope everyone is enjoying the summer.

The board met earlier this month and decided to move the September meeting to Monday August 31st. This is because the ASPE Convention & Expo conflicts with when the September meeting would have been normally scheduled. Trying to keep the meeting on a Monday we also needed to schedule around Labor Day and the local ASHRAE meeting. Because of all of this, we settled on August 31st.

For the “September” meeting, we will be welcoming Kevin Coyne from CONCOA. He will speak about the Laboratory Gas Systems. He will cover modes of supply, components and sizing & storage.

We also have speakers slotted for the October and November meetings and several other speakers that we’re in contact with to fill out the rest of the 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

Topics in 2020:

- Engineering Ethics
- Constructability of Design / Common Issues Found in Design from a Contactor Perspective
- Pipe Joining Methods – when and where to use different types

If there is a topic you would like to have addressed, please let me know.

Mike Nickoson

Vice President Technical

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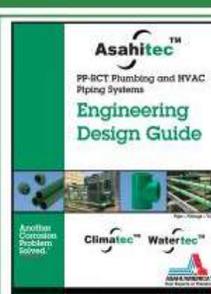
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VP Legislative—Mike Spengler

IAPMO and Special Pathogens Laboratory to Offer ASSE 12080 Training Program

The International Association of Plumbing and Mechanical Officials (IAPMO), in conjunction with Special Pathogens Laboratory (SPL), is offering an ASSE 12080 Legionella Water Safety and Management Specialist Certification Training program on August 17-19.

“This training provides the critical knowledge that industry professionals need to prevent this life-threatening disease,” Stout said. “At completion, attendees meet the knowledge requirements for the very first *Legionella* professional qualifications standard [ASSE 12080]. IAPMO’s expertise in education and training, together with Special Pathogens Laboratory, provides participants with the knowledge they need to become an ASSE certified professional for *Legionella* water safety and management, getting us closer to ending Legionnaires’

disease!”

The training program is scheduled for 8 a.m. to 5 p.m. on August 17-19 at the UA Local 130 Training Center, 1400 W. Washington Blvd., Chicago. The registration fee includes the ASSE exam, the SPL workbook *Puzzled by Legionella? A Guide to Understanding Detection, Prevention, and Water Management*, and lunch. To register, visit iapmolearn.org/topclass/searchCatalog.do?catId=129117.

For information about the ASSE 12080 standard, visit bit.ly/31dzNoQ.

ASHRAE Offers COVID-19 Building Readiness/Reopening Guidance

The ASHRAE Epidemic Task Force has developed guidance on mitigating potential health risks during the reopening of buildings closed during the COVID-19 pandemic.

(Continued on page 7)

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“We have reached a time where planning for a safe return to normal activities has become a priority,” said 2019-20 ASHRAE President Darryl K. Boyce, P.Eng. “Safe operation of HVAC and building water management systems are critical components of building readiness and reopening, and ASHRAE’s resources provide a framework for developing plans in a variety of building types.”

ASHRAE’s recommendations for reopening buildings are outlined in the [frequently asked questions](#) section of its [COVID-19 Resources webpage](#). Recommendations for building readiness and reopening include the following:

- Create a strategic plan prior to opening a building. The plan should include measures to make occupants feel safer, ensuring supply chain for critical items such as filters and communication plans for building support and safety measures for occupants.

If the building opening takes place when Personal Protective Equipment (PPE) requirements are still in place, [ASHRAE’s Occupancy Guides](#) can be referenced to deal with functioning buildings during the epidemic.

- Review HVAC programming to provide flushing two hours before and post occupancies. This includes operating the exhaust fans as well as opening the outside air dampers. For buildings without the capacity to treat large quantities of outside air and when outside air conditions are moderate, open all windows for a minimum of two hours before reoccupation.
- Ensure that custodial scope includes proper cleaning procedures built from EPA and CDC guidance on approved products and methods:
 - ◆ Disinfect high-touch areas of HVAC and other building service systems (e.g. on/off switches, thermostats)
 - ◆ Disinfect the interior of refrigerated devices, e.g. refrigerators, where the virus can potentially survive for long periods of time.
- Run the system on minimum outside air when unoccupied.

- Garage exhaust, if any, should run two hours before occupancy.

A decrease in water usage in buildings closed or with limited access during the pandemic can increase the risk of bacteria growth in building plumbing and associated equipment. Facility managers and building owners can help mitigate the risk of waterborne pathogens, such as Legionella bacteria, the cause of Legionnaire’s disease, by developing a water management plan. [ANSI/ASHRAE Standard 188-2018, Legionellosis: Risk Management for Building Water Systems](#) establishes minimum legionellosis risk management requirements for building water systems.

The task force also recommends guidance released in the newly updated [ASHRAE Position Document “Infectious Aerosols”](#) as well as the [Emerging Issues Brief](#).

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. 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 supple-

(Continued from page 7)

mental *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*

Ohio Board of Building Standards Code Classes

On January 26th, 2018, The Ohio Board of Building Standards sponsored training on the 2017 Ohio Building, Plumbing and Mechanical Code Updates. I have very helpful literature from the classes, including a PDF of the significant changes presentation so please contact me if you would like a copy and were unable to attend the classes.

Mike Spengler

Vice President Legislative

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

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.

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.

VP Education—Brad Fitzsimmons

ASPE Book of the Month

Through July 31, 2020, you can purchase the PDF version of *Illustrated Plumbing Codes Design Handbook* for 35% off the regular member price. Just enter coupon code **HOT** 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 – Revit 2020 Family Creation for MEP Virtual Workshop

Two Dates: July 15, 2020 8:00 AM (EDT), July 29, 2020 9:00 AM (EDT)

This full-day virtual training is designed for mechanical / plumbing designers to help you get your Revit 2020 projects to the next level. Building Information Modeling (BIM) is an approach to the entire building life cycle. Autodesk Revit for Architecture is a powerful BIM program that supports the ability to coordinate, update, and share design data with team members throughout the design construction and management phases of a building's life. Families are the backbone of Autodesk Revit. They are the elements you add as you model a building and its services, as well as the tools you use as you are annotating views. **Students will be sent a link to sign in to a computer which has the Revit software installed and ready for use. Contact education@aspe.org with any questions. If you need to register for an account as a nonmember or new member visit <https://www.aspe.org/requestaccount/> to begin.**

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 – Basic Value Engineering
Visit <https://education.aspe.org/RLE> to register

Brad Fitzsimmons

Vice President Education



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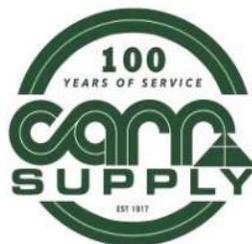
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Our 90+ [one-hour on-demand webinars](#) offer a convenient way to learn a new skill or brush up on some design techniques. Presented by experts instructors, the webinars cover a wide range of plumbing system design specialties, including fire protection, 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.

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ASPE CENTRAL OHIO CHAPTER 2019-2020 MEETING and EVENT SCHEDULE

August 31, 2020	Laboratory Gas Systems
October 12, 2020	Acid Waste Pipe
November 9, 2020	Electric Tankless Heater Design Applications and Pitfalls

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