

## June 2020

### President's Report

**Hello to all ASPE Members and friends,**  
I heard there were some technical difficulties for the last (webinar) meeting. We will be working with the Society (national) office to (hopefully) avoid those problems in the future.

#### ASPE's 2020 CPD Test

The CPD test has been rescheduled as an on-line test later in June.

#### ASPE's Online Revit Workshops

Due to popular demand, we have added new dates for our online Revit MEP workshop, but they are selling out fast. If you want to attend on June 26 or July 31, register soon at [ASPE Education](http://ASPE Education).

This full day of virtual training was created to help mechanical/plumbing designers take their Revit 2020 projects to the next level. If you want to know how to get a project started and maximize your workflow, this is the class for you. It also offers 0.65 CEUs upon successful completion.

#### 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.

#### Rainwater Catchment Systems Design Standard

ASPE is pleased to announce that ARCOSA/ASPE/ANSI 63-2020: *Rainwater Catchment Systems* has been designated as an American National Standard by the American National

*(Continued on page 4)*



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## 2020 GOLF OUTING CANCELLED



### GOLF CLUB OF DUBLIN

Unfortunately, due to the current situation with COVID-19 this years annual Golf Outing has been cancelled until 2021. The Golf Committee wishes you and your family the best during these unprecedented times and we will see you next year.

MARK YOUR CALENDARS FOR  
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(Continued from page 1)

Standards Institute (ANSI) and is now available for purchase.

Jointly developed by ASPE and the American Rainwater Catchment Systems Association (ARCSA), ARCSA/ASPE/ANSI 63-2020 is designed to assist engineers, designers, plumbers, builders/developers, local government officials, and end users in safely implementing a rainwater catchment system using precipitation from rooftops and other hard, impervious surfaces. The collected rainwater can be subsequently used for irrigation, laundry, hygiene, or even potable water applications if the appropriate treatment and materials have been certified for the specific end use.

Stay safe!

Keep your "Social Distance",

*Bill Deardurff*

President



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## VP Legislative—Mike Spengler

### 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.

“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

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## VP Education—Brad Fitzsimmons

### ASPE Book of the Month

Through June 30, 2020, you can purchase the PDF version of *Domestic Water Heating Design Manual – 2<sup>nd</sup> Edition* 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.

### Upcoming Webinar – 2020 Revit MEP Virtual Workshop

July 31, 2020 11:00 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. If you want to know how to get the project started and understand how to maximize your workflow, this is the class for you. We will discuss how to get started properly to optimize your project workflow. **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](mailto: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.

For additional information, please visit <https://education.aspe.org/products/2020-revit-mep-virtual-workshop-july-31>

### 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.

June – Fire Protection Fundamentals  
Visit <https://education.aspe.org/RLE> to register

*Brad Fitzsimmons*

Vice President Education

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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 facili-

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ties. 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](#)

## IAPMO Codes Mobile App Now Available for Download

The International Association of Plumbing and Mechanical Officials (IAPMO) Codes app is now available for download, giving users constant access to their purchased code books on their mobile devices even when they are offline. The free IAPMO Codes app also serves as a vehicle to contact the technical staff about any code questions, apply for technical committees

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or request information about the code development process.

Those who have already purchased an electronic version of the 2015 or 2018 codes will automatically be able to view their purchased codes on the app by with their login information. Create a free account to receive automatic notifications on the codes development process, committee meetings, and to be engaged in the development process.

The IAPMO Codes app is available in both the iOS and Google Play app stores. Users are able to make annotations and recordings, view the current code development timeline and stay informed by receiving automatic notifications for breaking news, upcoming committee meetings, proposal submission deadlines, and much more.

The codes now available for purchase and use in the app include:

- 2015 and 2018 Uniform Plumbing Code (UPC)
- 2015 and 2018 Uniform Mechanical Code (UMC)

- 2018 National Standards Illustrated Plumbing Code (NSPC)
- 2015 Uniform Solar Energy and Hydronics Code (USEHC)
- 2018 Uniform Solar, Hydronics and Geothermal Code (USHGC)
- 2017 Water Efficiency and Sanitation Standard (WE•Stand)
- 2015 and 2018 Uniform Swimming Pool, Spa and Hot Tub Code (USPSHTC)

The 2021 UPC and UMC will become available on the app once they are published early next year.

[IAPMO Mobile App](#)

*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



### 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](mailto:buildingwaterhealth@nsf.org).



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[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](http://education.aspe.org).

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## ASPE CENTRAL OHIO CHAPTER 2019-2020 MEETING and EVENT SCHEDULE

September 9, 2019	Upcoming changes and Indirect Connections
October 8, 2019	Joint ASPE/MCACO/ASHRAE/SFPE Meeting
October 14, 2019	Legionella Control thru Water Flow and Temperature (Venturi Valves)
November 11, 2019	Domestic Water Heating Using Heat Pumps
December 9, 2019	Fuel Oil Systems
January 13, 2020	Professional Liability
February 10, 2020	Accessibility for All (ADA Guidelines for Plumbing Fixtures)
March 9, 2020	Basics of Safety Showers and Eyewashes
April 13, 2020	Canceled
May 11, 2020	Venting Fundamentals
July 29, 2020	ASPE Golf Outing—CANCELED

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