

October 2022

President's Report

I hope everyone who was interested, was able to attend the 2022 ASPE Convention and Expo in Indianapolis last month. I saw many of you on the Expo floor.

At the Expo, our Central Ohio ASPE Chapter competed against other chapters in a Pinewood Derby Race. Each of the sixty-six ASPE Chapters from throughout the US and Canada were given kits to modify, within the guidelines, for this competition. The Central Ohio team (mostly our VP Membership, Tim Firlik) finished in third place just 0.0867 seconds behind first place and only 0.051 seconds out of second place.

There are several education and certification courses that ASPE is currently offering:

- Green Plumbing Design (GPD) Program - The program is an online course and certifi-

(Continued on page 10)

October In Person Lunch Meeting and Technical Presentation

October 10th, 2022

In Person

Raymond Memorial

3869 Trabue Road

Columbus, OH 43228

11:30 PM—1:00 PM

\$25.00 — members; \$35.00 — non-members

SUBJECT: Design of Polymer Process
Water Piping Systems

SPEAKER: Paul Galvin

GF Piping Systems

A member of the Boston Chapter of ASPE since the late 1970's, Paul G. Galvin is the Business Development Manager, Life Science/Institutional for GF Piping Systems LLC. He has been involved with design and installation of Special Waste Piping, Special Waste Neutralization and Process Water Piping Systems for over 35 years.

In 2000 Paul became a full time member of the GF Piping Systems team. In his current position, he has presented at many ASPE Chapter meetings, Symposiums and Conferences across the U.S. on design of process (RODI, UPW) water piping systems and special waste and neutralization systems, including past presentations on "Design of Polymer Process Water Piping Systems" at the ASPE 2015 Technical Symposium in St. Louis and at the "Symposium des Technologies de l'eau" in Montreal.



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VP Technical—Bill Deardurff

Hello to all ASPE Members and friends,
Our October speaker will be Paul Galvin with
GF Piping Systems
The topic will be [Design of Polymer Process
Water Piping Systems](#).

Please send me any ideas for speakers or top-
ics for this year's meetings.

Please note I have a new email address:

william.m.deardurff@imegcorp.com

Bill Deardurff

Vice President Technical

WOA Liason— Amanda Jost

We will be collecting non-perishable food items
for the Mid-Ohio Foodbank during our Novem-
ber and December meetings. This is a great
opportunity to give back to the community!

You'll have the chance to be entered to win a
\$50 Amazon Gift Card. One raffle ticket per 3
food items donated. If you can't make the in-
person meetings, please reach out to Amanda
Jost (614-634-2516) for alternate drop off loca-
tions.

Amanda Jost

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| <p>Raychem / nVent Thermal Solutions www.nVent.com</p> | <p><i>HWAT</i> self-regulating heating cable system for domestic hot water, <i>XL-Trace, Guardian</i> and <i>WinterGuard</i> freeze protection cable, <i>Pyrotex MI</i> and <i>Electromelt</i> snow and anti-icing cable, <i>IceStop, RIM</i> and <i>FrostGuard</i> roof and gutter de-icing cable, <i>RaySol, NuHeat</i> floor warming and freezer frost heave cable.</p> |
| <p>Schott Scientific Glass / Kimax http://www.us.schott.com/en-us/products/kimax</p> | <p>Glass piping for acid waste and containment piping systems. <i>Knight-Ware</i> acid neutralizing sumps.</p> |
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| <p>Waterless Company www.waterless.com</p> | <p><i>Waterless</i> “No Flush” vitreous china and fiberglass urinals with <i>EcoTrap</i> and <i>Blue Seal</i> liquid, <i>UTC Sentinel</i> sensor flushing systems. <i>Everprime</i> floor drain traps primer liquid. <i>Greenclean</i> chemicals.</p> |
| <p>Xerxes www.xerxes.com</p> | <p>Fiberglass Water and Wastewater storage solutions. Water storage, grease, oil, solids interceptors, and double wall decontamination tanks.</p> |
| <p>Additional Products Distributed: www.repsourcellc.com</p> | <p>Bathroom Partitions (solid plastic, baked enamel, stainless steel, laminate and phenolic), Bathroom Accessories, Lockers (solid plastic and metal), Water treatment products.</p> |
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VP Education—Brad Fitzsimmons

ASPE Book of the Month

Through October 31, 2022, you can purchase the digital version (eBook) of *Illustrated Plumbing Codes Design Handbook* for 35% off the regular member price. Just enter coupon code **pumpkins** when you check out.

The fine print:

- Discount is only available for ASPE members.
- Discount can only be used on the eBook (digital) 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 – Pipe Hangers and Supports

October 19, 2022, 1:00 PM (EDT)

This course will take the engineer through the various field-devised methods and engineered solutions for pipe supports and restraints. Once the course is over the engineer will be able to recognize the value and importance of disallowing field-devised methods and update plumbing specifications to include engineered solutions.

Course Learning Objectives:

- Be able to identify the difference between field-devised methods and engineered solutions
- Recognize the value and importance of disallowing field-devised methods
- Identify ideal piping support and restraint options available

- Learn the requirements for no-hub pipe & fitting restraints
- Be able to effectively update plumbing specifications

This webinar is free for ASPE members due to the generous sponsorship of Reliance Worldwide Corporation (RWC).

Brad Fitzsimmons

Vice President Education

VP Legislative—Mike Spengler

ASSE International Publishes New Listing Evaluation Criteria Legionella Reduction Devices

ASSE International has published a new Listing Evaluation Criteria (LEC) standard—ASSE LEC 2011-2022: Product Performance Requirements for Legionella Reduction and Treatment Devices.

Legionella reduction and treatment devices are designed to reduce Legionella microorganisms found in potable water systems. These devices reduce the number of the bacteria through inactivation and/or filtration. They can reduce or prevent the downstream bacterial colonization of a water system and thus ultimately the release of the bacteria into the water. Devices are intended to be used at point of entry (POE) or point of use (POU) in applications for hot or cold water, or both, for drinking water, washing hands, or showering. This standard defines the performance requirements for those devices to reduce the downstream risk due to Legionella bacteria.

To purchase ASSE LEC 2011-2022, please visit the ASSE International Webstore at assewebstore.com. For questions regarding the LEC, contact Terry Burger, Director of Product Standards, at terry.burger@asse-plumbing.org.

ASPE Seeks Volunteers to Help Develop New Standard on Thermal Disinfection

ASPE Working Group 99 was recently approved to develop a new standard that will provide guidelines to the healthcare and MEP engineering communities on approaches to optimally implement and manage the thermal disinfection process, and we seek industry experts (mechanical/electrical/plumbing engineers, healthcare facility owners and management and operations personnel, and plumbing product manufacturers) to participate in the process. Interested professionals can apply at aspe.org.

ASPE 99-202x: Implementation and Manage-

ment of the Thermal Disinfection Process in Domestic Hot Water Systems will provide guidelines to the healthcare and mechanical/electrical/plumbing engineering communities on approaches to optimally implement and manage the thermal disinfection process. This standard will provide direction on how to effectively implement and manage the thermal disinfection process utilizing these components.

IAPMO Publishes the Water Demand Calculator as a Standalone Document

The International Association of Plumbing and Mechanical Officials (IAPMO®) has published IAPMO/UPC/Appendix M-2021, Peak Water Demand Calculator, as a standalone document. This document is a direct extract from Appendix M of the 2021 Uniform Plumbing Code (UPC®), which was developed via an ANSI-accredited development process. All references to other sections of the UPC have also been extracted to avoid dependence of additional documents. The IAPMO/UPC/Appendix M-2021 is a document that can be readily utilized and adopted by any jurisdiction for water and energy conservation, to improve housing affordability, and to improve water quality.

A copy of IAPMO/UPC/Appendix M-2021 can be purchased here: iapm-membership.org/store/2021-upc-appendix-m-ebook/1175.

New ASTM Water Standard to Help Detect Legionnaire's Disease Bacteria

ASTM International's water committee (D19) has approved a new standard that provides an easy and accurate culture method for detecting Legionella pneumophila, the primary bacteria responsible for Legionnaires' disease. It is a potentially lethal pneumonia contracted from the inhalation of L. pneumophila bacteria that has been aerosolized by contaminated water sources such as showers, pools and spas, or cooling towers.

The new standard (D8429) describes a method for detecting and quantifying L. pneumophila to

(Continued on page 10)

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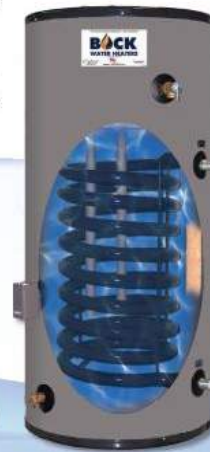
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VP Membership—Tim Firlik

I had a great time at the ASPE National Convention and Expo a few weeks ago and if you went I hope you did also! There were so many vendors at the Expo you really needed two days to visit them all! And on top of it we took 3rd place in the Pinewood Derby Sponsored by the Eastern Michigan Chapter, only behind by a total of 0.0867 seconds!

So now is the time to tell your co-workers about the benefits of joining the ASPE family! Next year the Tech Symposium is in Bellevue WA, and there will be many great classes for everyone to get continuing education!

The Central Ohio Chapter of ASPE is looking for new members! Do YOU know of any?? Anyone that would benefit in Plumbing Technical Publications – Plumbing Convention and Technical Symposia - Certifications in Plumbing Design – Plumbing Codes and Legislation – Continued Education Programs and networking with peers throughout the plumbing industry. Please send them my email address and we'll get them signed up with this great organization. tfirlik@cmta.com

Membership renewal! If you are up to renew your membership remember to do it today! We don't want to see you go!!

See you in October at our next ASPE meeting, join us in person and connect again with Reps and fellow members.

There is a new option to be apart of multiple chapters! If you are interested please keep The Central Ohio Chapter as your home chapter and sign up for as many others as you wish for only \$80 per chapter.

BENEFITS OF MEMBERSHIP

Becoming a member of the Central Ohio ASPE Chapter provides the following benefits:

- ASPE Plumbing Engineering Design Handbook

- Bi-monthly subscription to Plumbing Systems & Design magazine
- ASPEReport (in Plumbing Engineer magazine)
- Members Only ASPEnet Access (includes access to ASPE Data Books chapters)
- Publications and Education Programs Discounts
- ASPE Biennial Convention and Exposition (even years)
- ASPE Biennial Technical Symposia (odd years)
- Technical Seminars and Workshops
- Access to Earn Continuing Education Units (CEUs)
- Technical Books and Manuals (specific to the profession of plumbing engineering)
- Professional Certification / Recertification
- Continuing Education Opportunities in Plumbing Engineer magazine
- Alfred Steele Scholarship Program
- Local Chapter Affiliation
- Monthly Chapter Meetings and Technical Seminar Opportunities
- Networking Opportunities with Plumbing Engineers Worldwide
- Leadership Opportunities (Board of Directors, Region Chairs, Chapter Officers, Committees)

Please remember if any of your pertinent information has changed that it is your responsibility to notify ASPE National and The Central Ohio Chapter. You'll want to do this in order to remain on our mailing list.

Tim Firlik

Vice President Membership



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(Continued from page 6)

meet water management requirements. Such requirements are necessary to regularly validate that treatment and control measures are effective in potable and nonpotable water associated with industrial, commercial, healthcare, and residential settings. Jody says the new method is easier to perform and provides faster results than other methods

Mike Spengler

Vice President Legislative

(Continued from page 1)

education test for the GPD credential. Currently 172 GPD certificate holders.

Medical Gas Training and Certification Program – The ASSE 6000 Medical Gas training and certification program. Registration is currently open for the next class this December.

The CPD will reschedule for next year. Our chapter will see if there's enough interest locally to offer a prep class again for the exam.

A reminder of other upcoming events:

The 2022 Sporting Clays Event is coming up this Friday October 7th. All proceeds from the event go to the Central Ohio Chapter Scholarship Fund.

2022 Ohio Construction Conference is scheduled for Wednesday March 15th at the Ohio Union at OSU. ASPE is a Supporting Organization for this conference. More information will be shared once it is available.



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Your client wants a coffee maker, what are the requirements?

Typically, a client will ask for a kitchenette sink for their breakroom and often, if not initially then at some point after construction has started, someone from their design team will think, “Wouldn’t it be great if we had a coffee maker?”

Let’s start this discussion with code requirements associated with incorporating this into the design –

1. **608.16.10 Coffee Machines and Noncarbonated Beverage Dispensers**

The [water](#) supply connection to coffee machines and noncarbonated beverage dispensers shall be protected against [backflow](#) by a [backflow preventer](#) conforming to ASSE 1022 or by an [air gap](#).

2. The required backflow prevention device has a relief port which will take us to OPC 608.14.2.1.



3. **608.14.2.1 Relief Port Piping**

The termination of the piping from the relief port or [air gap](#) fitting of a [backflow preventer](#) shall discharge to an [approved](#) indirect [waste receptor](#) or to the outdoors where it will not cause damage or create a [nuisance](#).

4. **802.3 Waste Receptors**

For other than [hub drains](#) that receive only clear-[water](#) [waste](#) and standpipes, a removable strainer or basket shall be installed in [waste receptors](#). [Waste receptors](#) shall not be installed in concealed spaces. [Waste receptors](#) shall not be installed in plenums, crawl spaces, attics, interstitial spaces above ceilings and below floors. [Ready access shall be provided to waste receptors.](#)

5. **WASTE RECEPTOR.** A device for receiving the discharge of a waste pipe or pipes and discharges them by gravity into the sanitary drainage system. Waste receptors include, but are not limited to, floor drains, floor sinks, trench drains, hub drains, standpipes, mop basins, service sinks, and laundry trays.

This is where the wheels typically come off the cart. At some point everyone started thinking that “hub drains” could go anywhere, but the reality is that the intent was always for the hub drain to extend through a water impervious floor -

HUB DRAIN. A drain whose inlet terminates not less than 1 inch (25.4 mm) above the finished floor.

(COMMENTARY)

❖ An open hub drain is a common method of providing a waste receptor in water-impervious floors. It eliminates the need to provide a separate fixture with a strainer. A hubbed drain pipe or plain-end section of pipe serves as the receptor for receiving indirect waste. An open hub drain is restricted to clear-water waste without solids, unless the hub drain has a strainer. The pipe or hub is required to be a minimum of 1 inch (25 mm) above the floor to prevent the drain from serving as a floor drain (see Commentary Figure 802.3.2).

This is not “in” a water impervious floor!



So, we didn't design for it, the customer wants it, how do we get there?

“ALTERNATIVE ENGINEERED DESIGN”

ALTERNATIVE ENGINEERED DESIGN. A [plumbing system](#) that performs in accordance with the intent of Chapters [3](#) through [12](#) and provides an equivalent level of performance for the protection of public health, safety and welfare. The system design is not specifically regulated by Chapters [3](#) through 12 in accordance with the requirements of Section [106](#) of the [building code](#).

Declaring the addition of the coffee maker portion of the design as an alternative engineered design can get you away from having to use the ASSE 1022 device, which in turn can remove the need for the waste receptor.

Using this statement – “Backflow protection required at the coffee makers will be provide using an alternative engineered design based on the 2021 IPC using an ASSE 1024 certified lead free backflow prevention device.”



Or, “Backflow protection required at the coffee makers will be provide using an alternative engineered design based on the 2024 IPC using an ASSE 1032 certified backflow prevention device.”



These devices are dual check valves, the same level of protection, however, they do not have the relief port.

If you have any questions, please contact me – plumbinginfo@columbus.gov

James A. Richardson Jr., CPD

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QUALITY CONTROL AND TESTING!

SyncroFlo's quality control program is on the leading edge of technology for our industry. Each system is tracked at all stages of manufacturing, assembly, and testing with web based reporting via hand held devices. All welding is performed by AWS or ASME qualified welders. Once manufacturing and assembly are complete, the system is connected to our NIST calibrated test rig. We then hydrostatically test and flow test from zero to 100% of design and under specified suction and net delivery pressures. Once on site, your only surprise is how easy the system is to startup and commission.



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ASPE CENTRAL OHIO CHAPTER 2021-2022 MEETING and EVENT SCHEDULE

| | |
|--------------------|---------------------------------------|
| September 12, 2022 | Curbless Shower Design |
| October 10, 2022 | Polymer Process Water Piping Systems. |
| November 14, 2022 | TBD |
| December 12, 2022 | TBD |
| January 9, 2023 | TBD |
| February 13, 2023 | TBD |
| March 13, 2023 | TBD |
| April 10, 2023 | TBD |
| May 8, 2023 | TBD |
| June , 2023 | Golf Outing |

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