



February 2024 Volume 43 Issue 6

**Chapters are not authorized to speak for the Society**

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AMERICAN SOCIETY OF  
PLUMBING ENGINEERS  
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**OPEN**

**Chapter WOA Liaison**  
**OPEN**

**February CHAPTER MEETING**

**Date:** **TUESDAY, February 20, 2024**

**NEW Location:** **Countryside YMCA  
1699 Deerfield Rd  
Lebanon, OH 45036  
Tel 513.932.1424**

**Cost:** **\$15** at the door

**Schedule:** **11:30AM-1:30PM Heat Pump Water Heaters  
via Lockinvar**

**Reservations:** Make a reservation and pay for the meeting through the [Chapter Website](#) or email Bill Berger at [bill.berger@kohler.com](mailto:bill.berger@kohler.com) or John Fox at [john.fox@lixil.com](mailto:john.fox@lixil.com) before noon on **MONDAY, February 19th**, so that a head count can be established. As always, guests are welcome.

*All content displayed at ASPE meetings is copyrighted. No one may copy any part of it without permission of the copyright owner. Violation of this rule can lead to monetary damages.*

**LOOKING AHEAD**

**Chapter Meetings to be held at Countryside YMCA,  
Lebanon, OH unless noted otherwise.**

<b>March 19, 2024</b>	<b>Domestic Water Booster Pumps - QuantumFlo</b>
<b>April 16, 2024</b>	<b>TBD</b>
<b>May 21, 2024</b>	<b>TBD</b>

The ASPE Newsletter is published by the Southwestern Ohio Chapter of the American Society of Plumbing Engineers. Opinions expressed herein are those of the authors and do not necessarily reflect the views of the Society, the Chapter or the Editor.

## Presidential prose...



2024 brings a lot of ASPE excitement to the Great State of Ohio and we all get a front row seat to the action.

The Chapter Board has voted and going forward students (including co-ops) are always **FREE** to attend meetings. Ideally if they can register with a .edu email address makes it easier to verify student status. The Chapter has also voted to cover the registration of any students wishing to become ASPE members. This is particularly relevant to the Alfred Steele Scholarship, see below for more information about that.

Our Chapter will be hosting the Region 2 Presidents meeting in Dayton. This brings together over 10 different ASPE Chapters from 6 states and Canada. It's our chance to really showcase our area and extend hospitality to our fellow members.

Currently we are planning to host everyone at the UD Marriott and enjoying social time (and a Bluegrass band) at Carrillon Park Museum. We are seeking affiliate partnerships to advertise during the event and provide some swag-bag items. If you are looking for a slam dunk marketing opportunity please reach out to Brian Fraley or myself.

Secondly, the ASPE Convention & Expo will be in Columbus in October. This is ASPE's

biannual event that brings together thousands of engineers and manufacturers. The last Expo featured over 250,000 square feet of event space, will products ranging the entirety of the plumbing industry. With such easy access to this event (you can drive home at the end of the day if you want) I hope to see great turnout from the Southwest Ohio Chapter.

I am also happy to announce that the **\$5,000 2023 Alfred Steele Scholarship** is open for application! This application is limited to ASPE members and their immediate family members who have a minimum GPA of 3.0 and are in or plan to attend an engineering program at a college, university, or technical school. Please have any of your college-age family consider applying, your odds are significantly better than the Powerball.

### Upcoming Events:

Next SWO Chapter meeting – Heat Pump Water Heaters with Lochinvar – February 20, 2023

ASPE Convention & Expo 2024 – October 18-23, 2024 - Columbus, OH

Thanks for being here, we like having you.

**– Andrew Hemmelgarn  
President**


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## Technically Speaking...



As we begin the new year, and reflect on the previous one, I am extra appreciative of the outstanding engineers in this field and their dedication to continual learning. Your talents and passion drive the job, and I am looking forward to all the fantastic things we will do together this year. With that said, our next opportunity comes via Charlotte Pipe's Cameron Baucom covering Value Engineering in construction. He will detail the numerous considerations as they relate to the cost and function of a commercial DWV piping system, basic material differences within cast iron and PVC DWV systems, as well as how they apply to different build-types. In addition, he will also provide an overview of the different installation methods and requirements for these materials and their relation to the many dynamics of an overall project cost. The bottom line: where and when to use each type of product and why. I hope to see you there!

Cheers,

Samuel

Other upcoming events:

February 20<sup>th</sup> – Heat Pump Water Heaters via Lochinvar

March 19<sup>th</sup> – Domestic Water Booster Pumps via QuantumFlo

– **Samuel Church**  
**VP, Technical**

**The Southwestern Ohio Chapter would like to wish a**

*Happy Birthday*

**to the following members celebrating their birthday this month:**

**Steve Ashpaw, Deana Crawford, Dick Davis, Doug Dockus, Michael Graziani, Tim Lehman, Daryn Meadows, Michael Moll, Kevin Neal, Greg Pearson, Daniel Prince, Michael Rahe, Chris Schreel, Brian Selander, David Texter and Ryan Voss**

**And the Chapter would like to wish a**

*Happy Anniversary*

**to the following members commemorating their ASPE anniversary this month:**

**Bret Abner, Josh Cable, Dick Davis, Michael Heaton, Justin Hobing, Kevin Neal, Greg Pearson, Jack Rahn, Daniel Ross, Keith Schloemer and Matt Sciarretti**

# Legislative lingo...



**New Ohio Codes effective Mar 2024**  
 The Plumbing Code with Ohio Amendments are now showing up on ICC website here: [Ohio Building Codes - ICC Digital Codes \(iccsafe.org\)](http://ohiobuildingcodes.com) The red text is added by Ohio to the 2021 IPC.

See below for a significant change to food waste disposers no longer allowed to go to grease interceptors.

**2015 OPC**  
**1003.3.2 Food waste disposers.** Where food waste disposers connect to grease interceptors, a solids interceptor shall separate the discharge before connecting to the grease interceptor. Solids interceptors and grease interceptors shall be sized and rated for the discharge of the food waste disposers. Emulsifiers, chemicals, enzymes and bacteria shall not discharge into the food waste disposer.

**2024 OPC**  
**1003.3.2 Food waste disposers restriction.** A food waste disposer **shall not** discharge to a grease interceptor.

– **Jeremy M. Williams PE, LEED AP BD+C VP, Technical**

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<ul style="list-style-type: none"> <li>Commercial Faucets</li> </ul>	<ul style="list-style-type: none"> <li>Pump Connectors &amp; Expansion Joints</li> </ul>
<ul style="list-style-type: none"> <li>Acid Waste Tanks &amp; Grease Traps</li> </ul>	<ul style="list-style-type: none"> <li>Emergency Equipment</li> </ul>
<ul style="list-style-type: none"> <li>Steam Specialties—Traps, Valves, PRV's</li> </ul>	<ul style="list-style-type: none"> <li>Freeze Protection</li> <li>Flow Maintenance</li> <li>Snow Melting</li> </ul>
<ul style="list-style-type: none"> <li>Commercial Boilers High Efficiency &amp; Cast Iron</li> </ul>	<ul style="list-style-type: none"> <li>PP-R Pipe &amp; Fittings / McElroy</li> </ul>
<ul style="list-style-type: none"> <li>Packaged &amp; Field Erected Boilers</li> </ul>	<ul style="list-style-type: none"> <li>VRF Systems, Mini-Split Heat-Pumps, Roof Top Units</li> </ul>
<ul style="list-style-type: none"> <li>Boiler-Feed &amp; Condensate Return Systems Kentucky Only</li> </ul>	<ul style="list-style-type: none"> <li>Refrigeration Press Fittings — OH ONLY</li> </ul>
<ul style="list-style-type: none"> <li>Boiler &amp; Chiller Water Make-Up System</li> </ul>	<ul style="list-style-type: none"> <li>Valves &amp; Actuation</li> </ul>
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## Membership musings...



It seems like we've had incredibly pleasant weather for February in Ohio, I'm sure this will pass but I am very thankful that it's here for now. Hopefully you all have been able to take advantage of it and are enjoying the extra sunlight as we've passed the winter solstice.

Our next chapter meeting at the Countryside YMCA in Lebanon on Heat Pump Water Heater Design, it seems like this is a topic that is coming up more and more in our surrounding region. Thanks to Samuel Church for getting this set up!

We have two new members to welcome from Nelson Stark this month, Bill Blake, and Neil Dummit, who are both working to get their CPD credentials, we hope to see you at our next meeting.

The following members renewed in January, and we'd like to acknowledge them for their continued support to our local chapter, Matthew Wyles, Kevin Witte, Daniel Ross, Frank Pauly, Kevin Neal, Stewart Mackey, Alex Lee, Nicklas Hanes, Timothy Goodale and Melissa Angulo. Thank you all!

Our total membership is back up to 103 members this month with these new additions and renewals. We have 58 Full members, 16 Associate members, 26 Affiliate members, 2 Life members, and 1 Retired member.

Total Membership		
	Feb. 23'	Feb. 24'
Buffalo-Niagara	41	40
Central Indiana	111	121
Central Ohio	99	103
Cleveland	95	90
Eastern Michigan	103	104
Evansville	34	32
Johnstown	28	31
<b>Kentucky Bluegrass</b>	-	28
Pittsburgh	98	97
Rochester	61	76
<b>Southwestern Ohio</b>	122	103
Toronto	98	112
Western Michigan	83	91
Region 2 Total:	973	1028

Thanks,

**– Brian Selander  
VP, Membership**

Through the pipes...

# ASPE Convention & EXPO'24

Columbus, OH October 18-23

- [Save the Date!](#)

ASPE's next national event—the **2024 Convention & Expo**—will be held in **Columbus, OH** on October 18–23. The Convention & Expo is the only event specifically designed to enhance the career growth of plumbing professionals, featuring a technical education program and the largest plumbing product tradeshow in the country. It's not too early to visit [expo.aspe.org](http://expo.aspe.org) and start your planning.



- [Showcase Your Expertise at the 2024 ASPE Convention & Expo](#)

The Technical Education Program at the 2024 ASPE Convention & Expo in Columbus, OH will feature 30+ sessions for plumbing engineers seeking to enhance their skills and increase their career opportunities. They are accepting presentation proposals through February 29 for 75-minute, nonproprietary sessions that address current industry trends and technologies. If you would like to submit a presentation for consideration, visit [aspe.org/2024-presenter-application](http://aspe.org/2024-presenter-application).



- [MedGas Workshop Registration Is Open](#)

This year, ASPE's popular in-person MedGas Workshop will be held four times across the United States, and registration is now open for all of them so you can choose the workshop that best fits your schedule and location.

For the third and fourth quarters of 2024, the in-person MedGas Workshop will be held on September 26–29 in [Grand Rapids, MI \(hosted by Bradford White\)](#) and November 7–10 in [Exton, PA \(hosted by MediTrac\)](#) (click on the links to register.).

ASPE's MedGas Workshop is perfect for anyone seeking to sit for the ASSE 6060 personal certification exam. The workshop also provides the skills and knowledge needed for engineers who want to branch into medical gas system design.

The cost to take the workshop is \$2000 for ASPE members and \$2350 for nonmembers. Not an ASPE member? [Join today](#) to get the member price and save \$150, and you'll also be able to take advantage of all of ASPE's other member benefits.

[Visit ASPE Pipeline](#) for more information on the workshops and links to register.



- **Registration Is Open for the Eighth Emerging Water Technology Symposium**

Early-bird registration is now open for the eighth [Emerging Water Technology Symposium](#) (EWTS), taking place May 14–15 in Scottsdale, AZ.

The EWTS provides a unique opportunity to meet well-known experts from across the globe. The theme for this year's conference is "The Nexus Between Sustainability and Safety: Avoiding Unintended Consequences" and will feature prominent experts on these topics.

The EWTS will include the following presentations:

- "Emerging Water Contaminants' Impact on Premise Plumbing Systems" by Bob Bowcock, Integrated Resource Management
- "Final Barrier Solutions to the PFAs in Drinking Water" by Eric Yeggy, Water Quality Association
- "Saving Energy and Reducing Carbon with WaterSense-Labeled Homes" by Jonah Schein, WaterSense
- "Saving Water and Saving Energy in Growing Communities" by Gary Klein, Gary Klein and Associates, and Dan Cole, IAPMO
- "Building Water Commissioning: Tools for Establishing Safe, Efficient, and Sustainable

Water Management Programs” by Dr. Molly Scanlon, University of Arizona

- “Cooling Tower Conversion to Geothermal Sources Saves Precious Water” by Jay Egg, Egg Geo LLC
- “Premise Plumbing Materials and Opportunistic Premise Plumbing Pathogen Growth” by Abraham Collum, Ph.D., Special Pathogens Laboratory
- Panel Discussion: “The Safety Sustainability Nexus—Where Do We Go from Here?”

A complete schedule is available at [ewts.org/2024-schedule](https://ewts.org/2024-schedule).

The early-bird rate of \$495 ends March 15. To register, visit [events.aspe.org/2024EWTS](https://events.aspe.org/2024EWTS). Additional information may be found at [ewts.org](https://ewts.org). If you have any questions about the EWTS, please contact Maria Bazan at (708) 995-3000.



#### • [Join the Industry's Elite This Year](#)

The 2024 CPD exam will be held via remote proctor on April 15–26, and registration is open for eligible candidates on ASPE Education. The deadline to register is April 1, 2024. [Learn more>>](#)



- The six-day virtual **CPD Review Class** this March will teach you how to prepare to ace the Certified in Plumbing Design exam, either this year or in the future. The workshop includes a CPD practice test (a \$50 member value), which students will take prior to the last day and then go over the results with the instructor, Michael Danielson, CPD, GPD. [Learn more>>](#)



- ASPE's **Book of the Month** program continues with the [Advanced Plumbing Technology 2](#) (eBook version)

Through February 29, 2024, you can purchase the digital edition for 25% off the regular member price. Just enter the coupon code **engineersweek** when you check out.

The discount is only valid on the digital version of the publication, and the coupon code can only be used once. If you are purchasing multiple items, the discount will be applied only to the assigned publication.

Don't forget to enter the coupon code when you check out to receive the discount.



- **Canada's largest HVACR and plumbing show** will be held March 20-24 at the Metro Toronto

Convention Centre in Toronto, Ontario, Canada. Join thousands of plumbing professionals for an action-packed event, featuring more products, brands and solutions than ever before. Access over 500 booths, including the most recognized names in plumbing, refrigeration, cooling, heating, ventilation and more. For additional information or to [register](#), just visit the CMPX website. And be sure to use the code “ASPE” for free registration

#### Around the Water Cooler...

It's February. And, among other events, it means Valentine's Day is upon us. This leads us to ask an important question, “Instead of chocolate, will you accept a new Water Cooler conversation?” This month's conversation considers the different means of **plumbing traps and drainage** south of the border. As it turns out **WAY** south of the border. Read on...

- *From recent travels, I have learned that in Brazil, they use a device called the “caixa sifonada” (typical unit pictured below). It appears to serve a dual purpose. It acts as a floor drain as well as a receptor for all other plumbing fixtures in a private bathroom (except the water closet). Can you shed some light on this and its apparent function?*



We had to do a little digging to find the answer to this particular question. While the “caixa sifonada” may be found in Latin America, the term itself is actually Portuguese in origin and translates as “siphoned box”. You’ll note that there is no siphonic action taking place within this device. The term is simply how the local AHJs and those within the discipline refer to it.

Based upon the information provided and some research on our part, your assumption strikes us as correct. The siphoned box does indeed serve two purposes: It serves as a floor drain and as a receiver for grey water wastes.

With that said, this is essentially what is called a drum trap here in the Buckeye State. Drum traps are a type of plumbing trap that were commonly used in residential plumbing systems before the advent of the modern p-trap. A drum trap is a cylindrical-shaped trap with a vertical drain outlet (just above the bottom of the unit) that, in this case, turns and is extended horizontally to connect to the horizontal drain system. It holds a pool of drain water to create a seal, preventing sewer gasses and odors from entering the living space through the drain.

However, over time, drum traps have been found to be problematic in several ways. One of the primary issues is that they are prone to becoming clogged with hair, soap and other substances. Because of their design and installation locations, drum traps are more challenging to clean than other types of traps.

Another issue with drum traps is that they can corrode over time, leading to leaks and damage to the surrounding plumbing system. In some cases, drum traps can become so corroded that they fail to

create a proper seal, allowing gasses and odors to escape.

And as a last word, the Ohio Plumbing Code (2017 edition), paragraph 1002.3, states the following (as always, highlight ours):

**1002.3 Prohibited traps.** The following types of traps are prohibited:

1. Traps that depend on moving parts to maintain the seal.
2. Bell traps.
3. Crown-vented traps.
4. Traps not integral with a fixture and that depend on interior partitions for the seal, except those traps constructed of an approved material that is resistant to corrosion and degradation.
5. “S” traps.
6. Drum traps.

**Exception:** Drum traps used as solids interceptors and drum traps serving chemical waste systems shall not be prohibited.

## Parting thought...

Valentine’s Day: The one day all women want to hear those four little words, “Chocolate is not fattening.”

*-Unknown*

Looking to stay in touch  
with the Chapter



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