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MEETING FORMAT

6:00 – 6:30	Social
6:30 – 6:45	Memos & Table Tops
6:45	Dinner Served
7:00 – 8:00	Presentation

**NEW
NEW
NEW
NEW**

DATE: December 18, 2024
 TIME: 6:00pm to 8:00pm
 PLACE: The Valley Inn
 TOPIC: The Pros and Cons of Plastic Pipe
 SPEAKER: Lance MacNevin

[Register Today](#)



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- As a paid advertiser, you will have your advertisement in the newsletter for one full year (9 editions) and company logo displayed on the Chapter website.
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- Cost per advertisement is as follows:
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 - Half Page \$ 500.00
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Chuck Swope, PE, CPD, LEED AP BD+C
Chapter President

OK, now that Thanksgiving is over, we can now put up our holiday lights, candles, and all of our decorations, right? Never before Dec 1, mind you. We wouldn't like to have Miss Manners disappointed in us, would we? While some may be more of an Emily Post fan, we can all agree that December is a time for reflection and to give thanks to those that have supported us throughout the year. I am grateful to our members for being the driving force behind the programs that we put forward and this year was like no other. We've tried new locations, increased our presence at the ASPE Conference, and have plans to improve all of our extra events like Engineer's Week and Joint Union Event. Speaking of which, it is so popular we combined it with our January meeting!

Now I could go on about our chapter, but this month we want to recognize our chapter members efforts. We would like to dedicate December's going forward as our Awards Meeting so that we can highlight our achievements as an individual level and as an industry. As you may recall, our nominees are for the categories of **Plumbing Engineer of the Year, Young Plumbing Engineer of the Year, Educational Achievement Award, Industry Leadership Award, Service to the Chapter, and Project of the Year**. Our board members will deliberate on the nominees and select the best candidates that represent our industry and interests well. Who knows, it might be you? In addition to these awards, we will also recognize our long standing members for their commitment to the chapter's welfare. We formed this chapter 50 years ago mainly because we saw the need to bring likeminded people together for a common purpose, to share our ideas and promote new technology. That we have been together this long is a testament to that success.

Lastly, I just wanted to offer my heartfelt thanks to everyone. I have benefitted greatly from all of the interactions that I've gained through being a part of this chapter. I've grown as an engineer and as a person by talking and sharing what I have with you. When I joined over a decade ago, I never would have guessed that you would accept me as a leader nor would I expect that the chapter would grow as much as it did. I thank you all for your commitment and your continued support.



YOU ARE INVITED TO ATTEND
ASPE/UA486

Industry Night

With hands on demos in **cast iron and copper** pipe, and a short course on backflow preventer inspection, attendees will have a lot to learn. Already experienced? Attend our mini product show to learn more about all types of plumbing products and devices

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Julian Chival, LEED AP BD+C
Vice President- Technical

Many thanks to Jon Bergman, educator-extraordinaire, and all the folks who came out to hear his presentation on ultrapure water purification. If anyone would like to follow up with Jon, his email is JBergman@ResinTech.com. I'd also like to give a special shoutout to our friends from the Baltimore ASHRAE chapter for co-hosting joint sessions with us. It was nice seeing some crossover in attendance at both meetings!

Like last month, we have two CEU learning opportunities in December for you:

For our December meeting, we will be back at The Valley Inn in Timonium on Wednesday, December 18th. In addition to our Awards Ceremony (did we mention it's the Baltimore ASPE chapter's 50th anniversary?), we'll still have a technical presentation at the meeting for those of you looking to learn a thing or two.

Lance MacNevin will be leading a presentation on plastic pressure piping materials for plumbing and mechanical applications. We'll explore in depth what factors are important when selecting plastic pipe material and for which applications you should be considering plastic pipe. Lance MacNevin is the director of engineering for the building & construction division at the Plastic Pipe Institute. Lance joined PPI in 2015 and has been in the plastic pipe industry since 1993. Whether you're a plastic fanatic, a metal maximalist or somewhere in between, this is a topic you won't want to miss.

Additionally, we are offering a virtual lunchtime session on Thursday, December 19th in partnership with the ASPE Philadelphia Chapter. It'll be a presentation on fire protection requirements for lithium-ion batteries. For anyone that remembers our February fire protection meeting, I think this will be a great follow up to the discussions we had about the impact that battery storage and electric vehicles have on our fire suppression system designs. The speaker will be Brian Berkley, the national technical rep for Viking Corporation. Register now on the Baltimore (or Philly) ASPE website!

I hope to see you at The Valley Inn on December 18th! (and virtually on the 19th as well!)

Julian, VP-T

For those of you using AI summarizers instead of reading, here's the abstract:

- Thank you Jon Bergman for giving an awesome presentation last month.
- December 18th at 6PM at The Valley Inn is our awards ceremony and dinner meeting. The topic is plastic pipe materials and applications.
- December 19th is a free virtual lunchtime meeting (12 – 1:30PM) with the ASPE Philly chapter. The topic is fire protection of lithium-ion cells.

Hey Young Professionals!

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- WHAT ARE THE DIFFERENT TYPES OF BALANCING VALVES?
- HOW DO I SIZE BALANCING VALVES?
- DO YOU ALWAYS NEED SPECIAL EQUIPMENT FOR BALANCING?

WHEN

WEDNESDAY
DECEMBER 18, 2024
12-1PM EST

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Effects of Chlorine Dioxide on Hot and Cold Water Distribution Pipe

Study results indicate that the disinfectant can reduce the service life of most plumbing distribution materials to below normal expected lifetimes.

September 2, 2024

The majority of community water systems (CWSs) in North America use one or more chemical disinfectants to treat surface or groundwater for potable use. In the United States and Canada, approximately 99% of disinfected potable water systems use free chlorine or chloramine as the disinfectant, according to the American Water Works Association (AWWA).

Chlorine is typically supplied in a liquid form as sodium hypochlorite, the same chemical found in bleach. It is also available in gas form. Chloramine is formed when ammonia is added to water first treated with chlorine. These compounds have proven to be effective methods for keeping our drinking water safe.

The plastic piping materials CPVC (chlorinated polyvinyl chloride), PEX (cross-linked polyethylene), PE-RT (polyethylene of raised temperature resistance), PP-R (polypropylene random copolymer) and PP-RCT (polypropylene random copolymer with modified crystallinity and temperature resistance) have proven to be resistant to these disinfectants when used in hot and cold water plumbing distribution, water services, building supply lines and other related applications.

However, what about other water disinfectants?

Chlorine Dioxide in Municipal Systems

A less common secondary water disinfectant is chlorine dioxide (ClO₂). While often used as a primary water disinfectant in water treatment plants, chlorine dioxide is used as a secondary (i.e., residual) disinfectant in fewer than 1% of the public potable water systems in the United States.

The 2021 AWWA Journal article, "Understanding Community Water System Disinfection Practices in the United States," contains recent information about the use of water disinfectants.

Findings of this report include: "Free chlorine ... is by far the most utility-reported residual disinfectant for very large, large, medium and small CWSs" and "Chloramines are the second-most reported secondary disinfectant in large and very large CWSs ... We estimate that around 18% of CWSs, excluding very small systems, use chloramines for secondary disinfection."

Chlorine dioxide is a dissolved gas used in different concentrations than free chlorine or chloramines. It is highly volatile and efficient as an oxidizing agent for disinfection. ClO₂ has a different attack mechanism on the various materials to which it is exposed. It has been shown to be aggressive to most piping materials, including copper and polyolefin-based plastics.

"Chlorine dioxide is a yellow to reddish-yellow gas that can decompose rapidly in air," the Centers for Disease Control and Prevention (CDC) explains. "Because it is a hazardous gas, chlorine dioxide is always made at the location where it is used. Chlorine dioxide is used as a bleach at pulp mills, which make paper and paper products, and in public water-treatment facilities, to make water safe for drinking. It has also been used to decontaminate public buildings."

The U.S. EPA has set the maximum level of chlorine dioxide for potable water at 0.8 parts per million (ppm), but it is rarely used at such high levels in residual treatment. It is normal for disinfectant levels to diminish depending on water age, water temperature, distance from the treatment plant, piping material, organic matter in the water and other factors.

Effects of Chlorine Dioxide on Hot and Cold Water Distribution Pipe

In community water systems treated with chlorine dioxide, the actual residual level reaching most buildings is typically less than 0.4 ppm. Still, this level of ClO₂ could be aggressive to certain piping system components, so buildings connected to water supplies with ClO₂ should have piping components carefully selected.

However, plumbing systems have another risk of exposure to ClO₂ – from within the building itself (cue lines from 1970s horror films here).

Where and Why is Chlorine Dioxide Used in Buildings

Plumbing distribution system design is a dynamic challenge with several interactive variables such as fixture demands and water flow rates, pipe diameters and lengths, water temperatures, recirculation velocities, water and energy conservation demands, and other factors.

The bacterium *Legionella pneumophila* has been a topic of much research in recent years, with experts in the public health and plumbing fields focusing on piping designs that eliminate dead legs and use properly sized pipes to help prevent its growth by reducing the volume of stagnant water.

According to the CDC and other sources, *Legionella* can grow in water between 68 F and 120 F (20 C to 48 C) with an ideal growth range of 85 F to 110 F (29 C to 43 C).

In large facilities such as hospitals, nursing homes, hotels, apartment buildings and large office buildings, chlorine dioxide is sometimes added to the hot and cold water plumbing distribution systems to treat or control outbreaks of harmful bacteria. Specialized chlorine dioxide generation devices can be added to inject ClO₂ in measured doses directly into the piping system before water is delivered throughout the building. These injection devices are more commonly found in hot water systems.

Chlorine dioxide is one of several plumbing system treatment options to combat pathogen growth. Other options include chlorination, UV treatment of water, thermal shock to kill existing colonies of *Legionella*, and combinations thereof. Several industry resources are available to give guidance on these issues, including:

- ASHRAE Guideline 12, Managing the Risk of Legionellosis Associated with Building Water Systems;
- ASHRAE 188, Legionellosis: Risk Management for Building Water Systems;
- ASHRAE 514, Risk Management for Building Water Systems: Physical, Chemical and Microbial Hazards;
- IAPMO Uniform Plumbing Code, Appendix N, Impact of Water Temperature on the Potential for Scalding and *Legionella* Growth;
- ASPE Engineering Methodologies to Reduce the Risk of *Legionella* in Premise Plumbing Systems.

The injection of chlorine dioxide into the plumbing distribution system within buildings may be occasional, such as to treat an outbreak. The process may also be maintained for recurring or permanent system treatment, especially in large facilities with complex potable water distribution layouts where persistent biofilms are established within metallic piping components, and outbreaks are recurring.

Therefore, the exposure (e.g., concentration, time and temperature) of piping materials to chlorine dioxide can vary significantly from one building to the next. What are the potential effects on the piping of frequent or constant injection of ClO₂ into a plumbing system? A new report helps to address this topic.

Effects of ClO₂ on Plumbing Distribution Piping Materials

A team of plastic pipe industry experts began a research project in 2020 to investigate the potential effects of chlorine dioxide on pressure piping materials used in plumbing distribution systems. Their investigation found that multiple research teams worldwide have performed laboratory testing to evaluate the effects of ClO₂ on these materials

Effects of Chlorine Dioxide on Hot and Cold Water Distribution Pipe

Research showed that ClO₂ water treatment can be aggressive to most plumbing distribution materials, including metallic piping such as copper, where its oxidative effects can impact long-term performance. Chlorine dioxide may also affect elastomeric materials such as seals and gaskets found in pumps and appurtenances such as valves.

The 2019 report “Chlorine Dioxide Degradation Issues on Metal and Plastic Water Pipes Tested in Parallel in a Semi-Closed System,” available from the International Journal of Environmental Research and Public Health, states that “four different kinds of water [pipe], two based on plastics, namely random polypropylene (PPR) and polyethylene of raised temperature (PERT/aluminum multilayer), and two made of metals, i.e., copper and galvanized steel, were put in a semi-closed system where ClO₂ was dosed continuously. ...

“Results show that ClO₂ has a deep effect on all the materials tested (plastics and metals) [and severe] damage occurs due to its strong oxidizing power in terms of surface chemical modification of metals and progressive cracking of plastics.”

While such testing was experimental in nature and did not precisely simulate the exposure of hot, treated flowing water through pressurized piping systems, the published results indicate that chlorine dioxide has the potential to reduce the service life of most plumbing distribution materials to below-normal expected lifetimes.

For many hot and cold water distribution piping materials, the actual effects of chlorine dioxide are dependent upon the combination of factors such as water temperature, water velocity, system pressure, the use of other water treatment chemicals, the concentration of ClO₂ itself and other potential variables unique to each system.

Data indicates that chlorine dioxide has the potential to be substantially more aggressive than free chlorine or chloramines, even at comparatively lower concentrations, to piping materials copper, PEX, PE-RT, PP-R and PP-RCT. Evaluation by Plastics Pipe Institute (PPI) member firms indicates that chlorine dioxide is not known to be aggressive to CPVC at elevated temperatures of 200 F (93 C) and below.

The summary of the PPI research, including links to referenced studies, has been published in PPI Technical Note TN-67, “Chlorine Dioxide and Plastic Hot- And Cold- Water Plumbing Distribution Pipes”.

Based on these findings, specifiers and designers should use caution when considering the use of chlorine dioxide as a chemical disinfectant to treat water for the control of Legionella or other pathogens.

PPI recommends contacting each piping system manufacturer for guidance on how to use their pipe and fitting material(s) when chlorine dioxide has been selected as the disinfection chemical.

There may be cases where a particular piping material is not suitable for a specific application due to the factors listed above, or insufficient data is available to indicate if a given pipe or fitting material is suitable.

Lance MacNevin, PEng, is the director of engineering for the Plastics Pipe Institute’s Building & Construction Division and has been in the plastic pipe industry since 1993 in various technical roles. He serves on technical committees within ASHRAE, ASPE, ASTM International, AWWA, CSA Group, IAPMO, ICC, IGSHPA, NSF International and RPA, helping to develop codes and piping standards.

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Nicole Murphy
VP Membership

I hope everyone had a wonderful Thanksgiving filled with good food and even better company!

I'm thrilled to announce that our Baltimore Chapter has a new member joining our ranks: David Jones! Please join me in welcoming him to our community.

With David on board, we are now 137 strong! Being part of ASPE not only connects you with like-minded professionals but also opens the door to incredible benefits, especially our monthly meetings. If you haven't signed up yet, now is the time to get involved! I encourage all current members to spread the word and invite your colleagues to our gatherings, where you can enhance your professional skills and expand your network within the ASPE family.

For all the details on membership and our exciting upcoming events, please check out <https://aspe.org/join>. I can't wait to see everyone on December 18th at The Valley Inn!

Dave Bailey
Plumbing Plan Reviewer's Corner

Per last month's ASPE Chapter newsletter, I presented to you a paragraph whereby a plans submitter attempted to correctly identify the three cast iron foundries located in the USA and failed miserably. Had you attended your local ASPE Chapter meeting this November, a McWane Plumbing rep would have told you that these foundries are AB&I, Tyler Pipe, and Charlotte Pipe.

This month's review involves proposed sewage lift station site. Per recent third review of a submitted drawing set, I noticed that a couple of my original commentaries had been addressed, but were they addressed satisfactory? Per initial submission, one containment backflow preventer was proposed to serve two domestic water systems, one potable and one non-potable. I insisted that there be two independent containment BFPs in parallel, an approved ASSE 1015 BFP for the potable domestic water system and an ASSE 1013 BFP for the non-potable domestic water system. The designer shows the parallel design with following respective BFPs specified for the project: Watts Series 850 and Watts Series 909. Are you able to determine a problem?

The second issue pertains to a specified emergency eye/face wash station and a proposed water heater is an electric tankless water heater capable of providing a ΔT 68oF at 0.5 GPM. Are you able to determine a problem? (Hint: The emergency fixture requires a minimum flow rate of 3.0 GPM @ 30 PSI and the water delivered shall fall within the tepid range year-round.)



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03

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Chris Imhof, PE, CPD
Vice President- Legislative

Montgomery County Code Update

On January 2, the Montgomery County Economic Development (ECON) Committee met to review Executive Regulation 13-24, Adoption of the 2021 International Building, Energy Conservation, Mechanical, Fuel-gas, Residential Code, Swimming Pool and Spa Codes and the 2021 International Existing Building Code. In addition, the committee reviewed Executive Regulation 14-24, Adoption of Fire and Life Safety Codes. These regulations also appear to include adoption of the 2021 International Green Construction Code (IGCC). Montgomery County adopted the IGCC in 2021. As opposed to the other codes mentioned, adoption of the IGCC is not required by the state.

You can find the related documents here: [Executive Regulation 13-24, Adoption of the 2021 International Building, Energy Conservation, Mechanical, Fuel-gas, Residential Code, Swimming Pool and Spa Codes, and the 2021 International Existing Building Code](#)

Or watch meeting here: [Dec. 2, 2024 - ECON Committee Worksession](#)

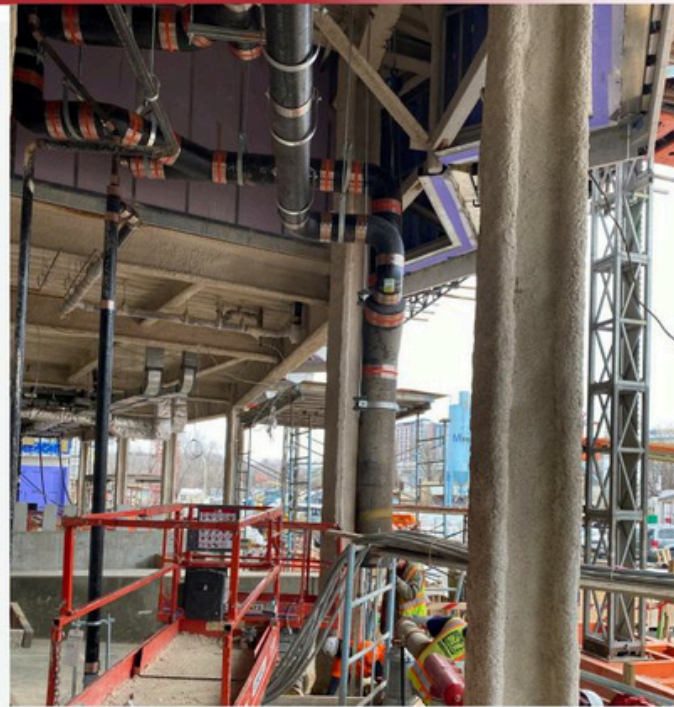
Did Washington Gas Convince a TV Station to Bury a Story on the Dangers of Gas Appliances?

Last month this newsletter mentioned lawsuits being brought by Washington Gas, and others, in response to electrification legislation. Now, the Washington City Paper has published an article, "Did Washington Gas Convince a TV Station to Bury a Story on the Dangers of Gas Appliances?" The article claims, "WUSA9 ran and then quietly removed a story about the health risks associated with gas stoves and ovens."

Link to article: [Did Washington Gas Convince a TV Station to Bury a Story on the Dangers of Gas Appliances?](#)

You can expect energy utilities and climate action advocates to battle hard in the next few years over legislation intended to reduce emissions.

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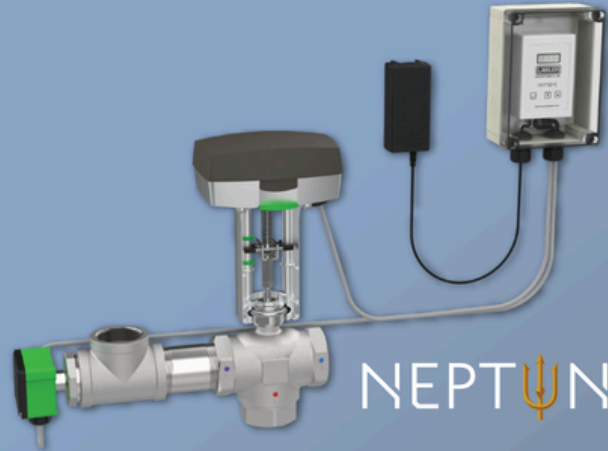
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**2022-06
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**2023
POLYMER CONCRETE
TRENCH DRAINS
CATALOG**
4", 6", 8", 10" INTERNAL WIDTHS - SHALLOW CHANNELS - CATCH BASINS
(8", 10" and 12" OVERALL WIDTHS)
LIT-076



**2023
GRP & STEEL
TRENCH DRAIN
SYSTEMS
CATALOG**
GRP & STEEL TRENCH
DRAIN PRODUCTS
2", 4", 6", 8", 10" INTERNAL WIDTHS - SHALLOW CHANNELS - CATCH BASINS
(8", 10" and 12" OVERALL WIDTHS)
LIT-046



**2023
SHOWER DRAIN
CATALOG**
STAINLESS STEEL
SHOWER DRAINS
LIT-077



**2023
STAINLESS STEEL
TRENCH DRAINS
CATALOG**
TRENCH, FLOOR AND
KETTLE DRAINS, CLEANOUTS
AND ACCESSORIES
LIT-072



**2020
ROOFGUARD
CATALOG**
"UNLOGGABLE"
ROOF DRAIN DOMES
LIT-058



**2023
C-PORT RUBBER
SUPPORTS
CATALOG**
ROOFTOP RUBBER
PIPE SUPPORTS
EXTENSION - WINGBODY - ROLLER
LIT-047



**2022
DIALYSIS BOXES
CATALOG**
DIALYSIS BOXES
LIT-070



**2020
HYDROMAX
CATALOG**
SIPHONIC ROOF
DRAINAGE SYSTEMS
PRIMARY - OVERFLOW - GUTTER
LIT-062



**2023
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CATALOG**
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ACID NEUTRALIZATION
TANKS
LL-MAX - BG-MAX - SUPER-MAX
LIT-095



**2022-08
TRAP SEAL
PRIMERS
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TRAP SEAL PRIMERS
AND WATER HAMMER
ARRESTORS
PRESSURE DROP ACTIVATED - ELECTRONIC - FLOOR DRAIN SEAL
LIT-062



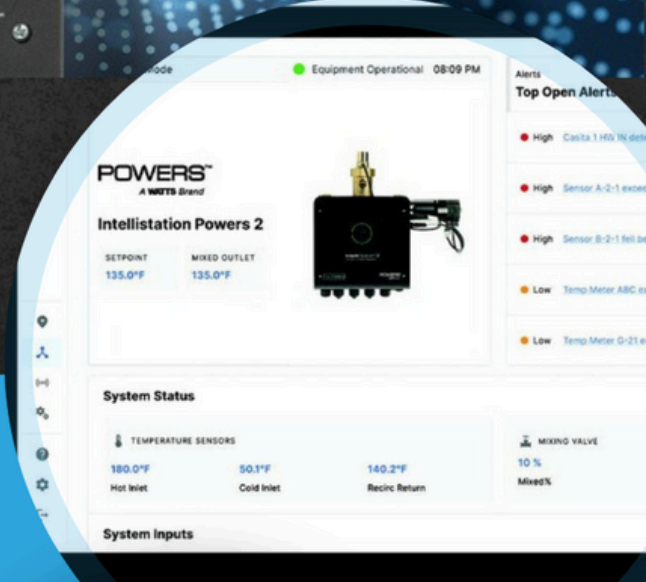


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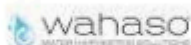


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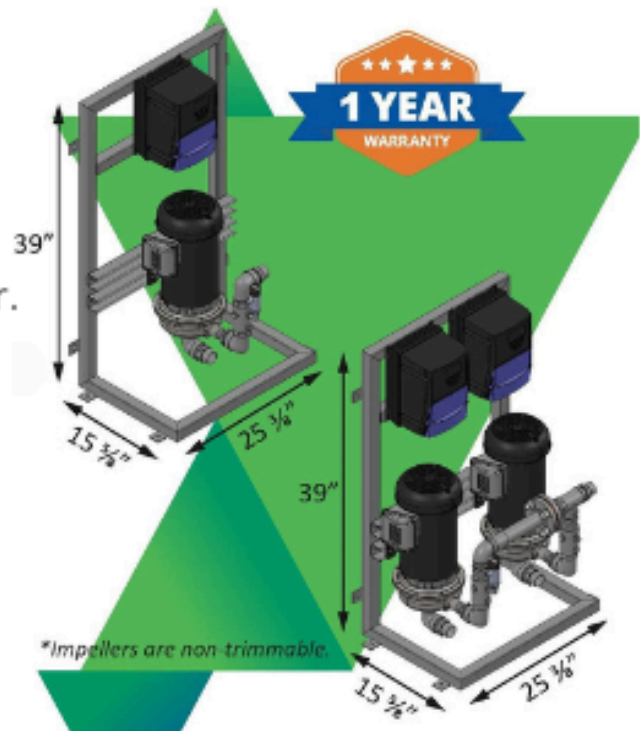
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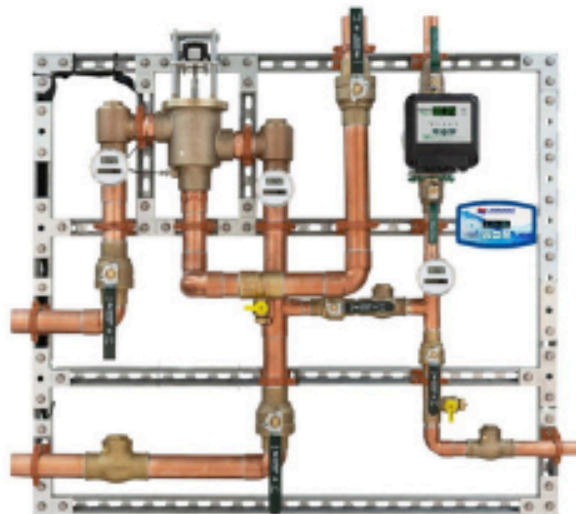
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verticals

- battery
- chemical
- data centers
- education
- food and beverage
- hospitality
- oil & gas
- pharmaceutical
- power generation
- mixed-use
- water treatment

materials

- brass
- bronze
- carbon steel
- copper / steel
- ductile iron
- lead-free brass
- stainless steel

connections

- flange
- groove
- press
- push
- solder
- threaded
- welded



Schedule of Events

SEPT 25	Tankless Water Heaters	Olive Grove Linthicum
OCT 16	Elevator Codes and Standards	Little Havana Locust Point
NOV 20	RO/DI Water Systems	Valley Inn Timonium
DEC 18	Pros & Cons of Plastic Pipe	Valley Inn Timonium
JAN 23	Industry Night with UA486	UA Local 486 Training Ctr Rosedale
FEB 26	Fire Suppression Specialties	TBD
MAR 26	Heat Pump Water Heaters	TBD
APR 23	Radon Mitigation	TBD
APR 2024	Annual Golf Tournament	Details to Follow
MAY 21	Everything We Do Wrong	TBD
JUN TBD	Annual Summer Party	Details to Follow

MONTHLY SPONSORSHIP OPPORTUNITIES

Tabletop Presentations: \$100 to provide a tabletop presentation of equipment or material relative to the plumbing profession. The tabletops will be set up from the beginning to the end of the monthly meeting and provides the opportunity to provide a brief (under 5 minutes) presentation. We ask that the affiliate register for tabletop presentations in non-consecutive months to allow other presenters the opportunity to support the chapter.

Social Sponsorship: \$250 to provide a running slideshow presented on screen of logos, linecards, and a 8.5x11" sign at the bar. This slideshow will be provided during the social period. There will also be a special mention by the master of ceremonies during the opening and closing remarks. Slideshow must be submitted prior to the meeting for approval. PowerPoint, .jpg, or .png formats are preferred.

Please make checks payable to the Baltimore Chapter of ASPE. Contact Kathy Dwyer or Chuck Swope if interested