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CASPE

American Society of Plumbing Engineers™

BALTIMORE

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DATE: November 14, 2022

TIME: 6:00pm to 8:00pm

PLACE: [Olive Grove Restaurant](#)

TOPIC: Valve Material Applications

SPEAKER: Lauren Berenato
Jomar Valve

[Register Today](#)





Olive Grove
Restaurant & Lounge

705 N. HAMMONDS FERRY ROAD, LINTHICUM, MD 21090
PHONE: 410-636-1385

MEETING FORMAT

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

 Local Chapters are not authorized to speak for the Society.
Newsletter questions? Please contact [Nikita Patel](#)

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Newsletter Advertising

- 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.
- Ads for the year will begin in the September issue and run through the May issue.
- All ads must be paid in full prior to the advertisement being included in the newsletter.
- Advertiser must provide ads in high resolution PDF format. Logo must be provided in .jpeg format, 200px wide size
- Cost per advertisement is as follows:
 - Full Page \$ 750.00
 - Half Page \$ 500.00
- Please contact Nikita Patel or Chuck Swope
- Make checks payable to Baltimore Chapter of ASPE. Please contact the Chapter Treasurer with any questions.



Chuck Swope, PE, CPD, LEED AP BD+C
Chapter President

President's Report

Happy Belated Halloween and an early Happy Thanksgiving! I'm happy to say I stayed for the whole meeting this time and was glad I did! Joking aside, I'm happy to see more participation in our chapter than ever before. It's hard to think that we have lost so much time, but my hope is that we can pick right up where we left off. That isn't to say that we didn't work hard over the past few years, quite the contrary. I want to thank the board and chapter members for their efforts and diligence to support their fellow members and soon to be members.

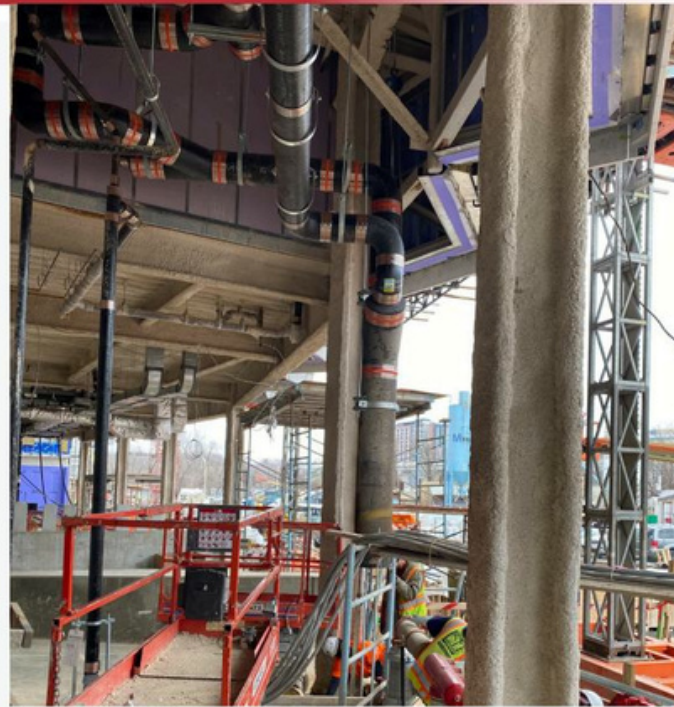
That all being said, I attended the inaugural Region I meeting this Thursday where we discuss and share ideas between the Mid-Atlantic, New England, and Eastern Canadian Chapters. One of the ideas recommended from the Society to our chapters was the Ambassador Program. We've found that we've done a great job at gaining new members and we want to make sure everyone gains the best benefit from said membership. Many people are not aware of all the professional and personal benefits that ASPE offers. This is where the Chapter Ambassador Program can help. The program pairs new Members with veteran Members (Ambassadors) to ensure that the most crucial year of the new Member's engagement with the Society is successful.

If you are interested in joining the program, either as an Ambassador or as one who wants to know more about the benefits of ASPE, please let me know!

In other news, the next technical symposium is scheduled for September 28th through October 1st in beautiful Bellvue, WA. For those of you not familiar, the technical Symposium always follows the year after the ASPE Convention and focuses on the education aspect of our industry. The education sessions offered covers a wide variety of topics like plumbing system design techniques, emerging technologies, and a chance to experience topics that you may not come across in your daily career.

For one example at the last symposium I attended, I sat in on a Seismic Design course which covered Seismic Design Categories, types of bracing, and code applications. At the time, Mueller's projects fell into categories that didn't need this type of design in Maryland. As owners started to focus on resilient designs, this criteria became important and I had a resource from the presenter that I could call on to make a successful design. This is only one of many benefits that ASPE offers! I realize that I'm a bit biased (and preaching to the choir to some), but I hope you consider this when you're talking to colleagues.

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

Technical Report

I DON'T WANT A LOT THIS NOVEMBER

THERE IS JUST ONE THING I NEED

I DON'T CARE ABOUT THE PLUMBING UNDERNEATH THE PROJECT SCOPE (DON'T TELL CHUCK!)

I JUST WANT YOU AT ASPE

MORE THAN YOU COULD EVER KNOW

MAKE MY WISH COME TRUE!

ALL I WANT FOR THIS MEETING IS YOU (TO ATTEND!)



Unfortunately, I couldn't attend the October meeting and I missed out on Dominic Tagliafierro's presentation on reverse osmosis, but I wanted to send out a huge thanks to everyone in attendance, especially Dominic. He's a great resource for everything RO, and I know I'll be emailing him during the next project I have with RO water systems! If you have any follow up questions from the presentation, his email is Dominic.Tagliafierro@CanatureNA.com.

For our November meeting, we're trying something new: a Monday night meeting. We will be finished with our technical session before Monday Night Football (I promise!) Our November meeting will feature yet another exciting topic from a great presenter. This month we'll be learning about valve materials and the features and benefits to each material. We'll explore the differences between bronze and brass, and when to choose different materials based upon fluid and application. Leading this learning expedition is Lauren Berenato, National Specifications Manager at Jomar and ASPE Region 1 Affiliate Liaison.

Make sure you get your ticket now, our meeting is on November 14th, so it will be here sooner than you realize!

Best,
Julian Chiveral, LEED AP BD+C
Vice President - Technical

The Plumbing Engineering that Powers Shake Shack

Instantaneous gas water heaters save valuable floor space and offer water heating system redundancy.

October 3, 2022



Shake Shack serves elevated versions of American classics using only the best ingredients. It's known for its delicious, made-to-order Angus beef burgers, crispy chicken, hand-spun milkshakes, house-made lemonades, beer, wine and more. With its high-quality food at a great value, warm hospitality and a commitment to crafting uplifting experiences, Shake Shack quickly became a cult brand with widespread appeal.

Henderson Engineers, the Kansas City-based national building systems design firm where I serve as the plumbing technical director, has provided design services for more than 135 of these locations.

Sit-down dining is available at Shake Shack, but a significant amount of its business is through its digital and delivery channels. For patrons dining on-premises, food is served via individual serving-size cardboard boxes and paper cups on a metal serving tray. Hot water is used in the kitchen for preparing and cooking this food, as well as utensil clean-up and handwashing.

On Shake Shack design and construction projects, the food service consultant provides a code-minimum, triple-compartment sink for manual pot and pan washing, along with at least three handwashing sinks. It also provides a double-compartment sink and a work sink in the coffee and tea prep area.

Depending on facility size, one or two undercounter commercial dishwashers are provided by the kitchen equipment consultant for washing metal serving trays, utensils, and small pots and pans. While Henderson does not specify the hand sink faucets, our drawings specify the plumbing contractor to provide 0.5 gallons/minute (gpm) flow restrictors to conserve water and energy.

Most Shake Shack projects include men's and women's restrooms designated by the architect. Henderson specifies the women's restroom with two water closets and the men's with a single water closet and a urinal. We specify each restroom with a single wash fountain lavatory with an electronic single-temperature faucet for patron handwashing. These wash fountains are preferred by Shake Shack for their ease of installation, appearance and durability.

For water and energy conservation, Henderson specifies 0.5 gpm flow restrictors at the wash fountain faucets. Since the faucet is a single temperature, nonadjustable type, we opt for an ASSE 1070 thermostatic mixing valve set at 100 F.

Water Heating System

For food service, our experts design a water heating system operating at the maximum code-allowed water temperature of 140 F for *Legionella* control. We designed the hot water recirculation system to return water back to the water heater at a minimum return temperature of 132 F, given that a temperature of 131 F is known to kill *Legionella* in four hours.

Henderson uses constant flow cartridge-type control valves and constant-speed recirculation pumps because of their low first cost. Constant flow cartridge-type control valves require no calibrating and setting in the field by the contractor, thus limiting expenses for Shake Shack.

Initial project water heating systems consisting of two 80-gallon electric water heaters are provided for facilities where only gas is available for cooking or where there is no space for water heater flues. Two heaters are chosen for redundancy.

Where gas is available for water heating, two 80-gallon, 150 MBH high-efficiency water heaters are provided. However, tank water heaters require a large footprint for installation and access. Henderson always ensures space is available to remove one water heater without disturbing the other for quick replacement.

Instantaneous Hot Water

In 2020, Shake Shack directed Henderson to provide instantaneous gas water heaters, which offer energy savings in the form of no standby losses from the storage tank. They also offer additional redundancy in that each heater can operate as a standalone heater if required.

Each heater includes a bottom gas and cold water inlet and hot water outlet in addition to a combustion air inlet and exhaust outlet at the top. Because the water and gas inlets and outlets are located at the bottom of the heater, gas, cold and hot water headers are installed underneath the heaters. Henderson allows 24 inches of leeway to install the headers and isolation valves.

The combustion air inlet and exhaust at the top of the heaters make them difficult to stack vertically, and we have learned the heaters are ideally installed in a row along the wall with the gas, hot and cold headers mounted below. Henderson provides 6 inches between each heater and 32 inches of open space in front of each heater for maintenance access. The combustion air and exhaust route straight up through the roof of the building.

Our first designs included wall-mounting the heaters in a row along a back-of-house corridor, as shown in Illustration 1. The bottoms of the heaters were set at 4 feet above the floor. The corridor acted as the service space, making them easily accessible for maintenance.

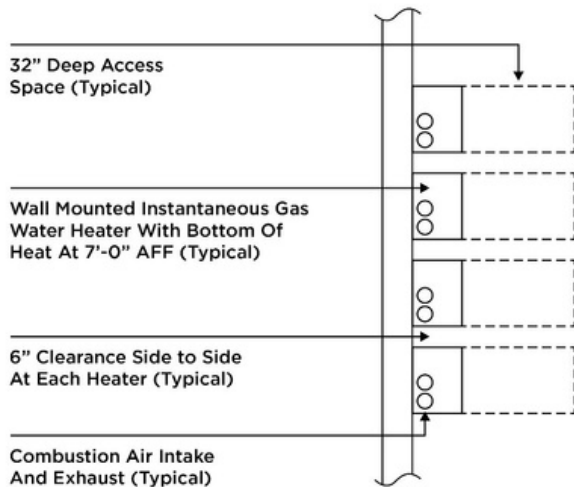


Illustration 1: Back of House Corridor

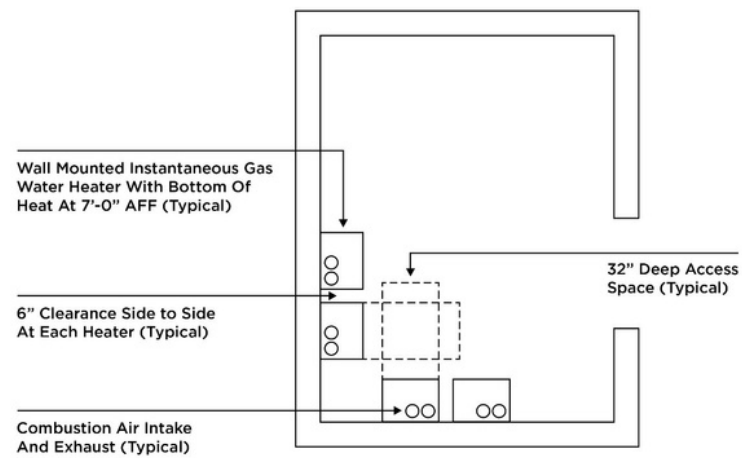


Illustration 2: Mechanical Room 10'-8" x 9'-0"

However, installing the heaters in working space has the disadvantage of taking up valuable storage space and interfering with staff when maintenance is required. A more traditional approach is to install the heaters in a mechanical room.

One of our early Shake Shack designs included installing the water softener, brine tank and water filtration system under the wall-mounted heaters, as shown in Illustration 2. The water softener was partially within the maintenance area in front of the heaters; the height of the water softener, gas, and hot and cold water header raised the bottom of the heater more than 7 feet off the floor.

While this setup saved floor space, it proved difficult when providing maintenance, which required accessing the heater with ladders and interfering with the water treatment system installed below. Alternatively, installing two heaters on one wall and two more heaters on the 90-degree adjacent wall allowed two heaters to share their access space, therefore reducing the footprint. The headers below the heater can be easily installed to make the 90-degree bend required.

Many instantaneous gas water heater manufacturers offer factory-assembled, prepiped and skid-mounted systems for four heaters mounted back-to-back. These packaged systems include hot, cold and gas headers with shutoff valves installed underneath the heaters for single-point connection. Factory-assembled exhaust and intake headers also are provided for single-point connection.

These systems save contractors time in the field by providing a consistent method of installation. Henderson evaluated this option for Shake Shack equipment rooms and found the back-to-back installation with service space on both sides took up too much floor space, as shown in Illustration 3.

Another space-saving idea was to install water heaters with electric-resistance, freeze-protection heating systems on the roof. Henderson would minimize the amount of hot, cold and condensate piping on the roof, but specify the water and condensate piping to be insulated and provided with electric heat trace. This ensures that no damage occurs from freezing.

The aforementioned factory-assembled, prepiped and skid-mounted systems are ideal for roof mounting; the skid system is designed to meet roof wind loads. As standard practice, our experts only specify heaters on the roof in mild climates with minimal potential for freezing since power failures can occur in snowy or icy freezing conditions, thus rendering systems useless.

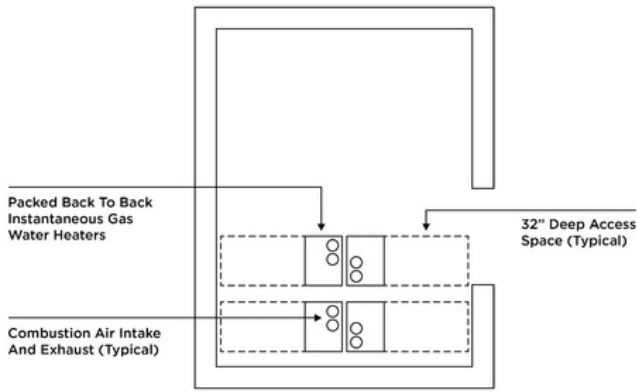


Illustration 3: Mechanical Room 10'-8" x 9'-0"

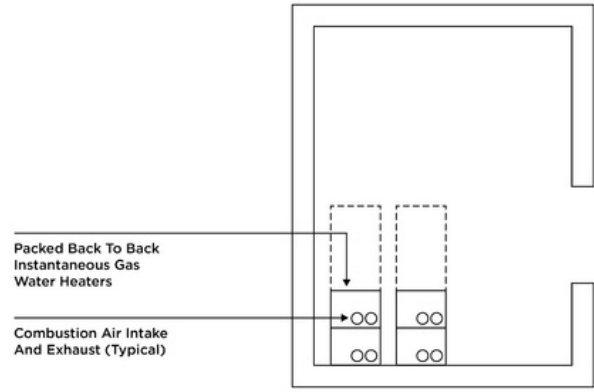


Illustration 4: Mechanical Room 10'-8" x 9'-0"

Our Shake Shack construction management partners recommended a third-party manufacturer that makes pre-piped skid-mounted systems with four stacked water heaters. The heaters are assembled with the upper heaters offset to the front to allow the lower heater's intake and exhaust flues to pass behind. The lower heaters are installed close to the floor so that the upper heaters are not installed too high for access.

A common gas, hot and cold water header is installed on the side of the assembly with a subheader installed below the lower and upper heaters. Space is saved by the sharing of access space of the upper and lower stacked heaters, as shown in Illustration 4. The side-by-side heaters fit in the mechanical room without an ion exchange water softener. The width of the heater assembly is kept to a minimum and can be installed in a 5-1/4-foot-wide alcove.

Shake Shack construction managers also evaluated all the instantaneous gas water heater installations. They chose to standardize on the wall-mounted installation above the water softener and filtration system, as shown in Illustration 2. This option took up the least floor space. It was determined that the instantaneous heater maintenance requirements could be met with maintenance technicians accessing them with ladders with few problems.

Water Treatment

Shake Shack has a sophisticated water treatment system serving its beer coolers, custard machines, ice machines, carbonators, water glass fillers, and coffee and tea makers. Since Henderson's field of expertise is not water treatment, the kitchen equipment consultant spearheads filter selection on each project.

The consultant provides a central filter assembly with particulate prefilters and carbon adsorption filters in series to improve water taste. A third filter housing in series includes a scale inhibitor treatment cartridge. This filter assembly has two outlets. One outlet provides filtered water only; the second outlet provides filtered water with scale inhibitor. Water for all equipment except for the carbonator receives scale inhibitor.

Henderson's responsibility is to ensure the correct filtered water is sized properly and connected to the correct equipment, as indicated by the kitchen consultant's drawings. We indicate the two waters in the legend and on our drawings per the legend below:

LEGEND

————— FW1 ————— Filtered Water (FW1)

————— FW2 ————— Filtered Water With Scale Inhibitor (FW2)

Generally, Shake Shack avoids ion exchange water softeners given their relatively high installation, operating and maintenance costs. The kitchen equipment consultant decides if an ion exchange water softener is necessary on a project-by-project basis. For scale control, softened water should be considered for all water heaters.

Instantaneous gas water heaters typically include a 0.375-inch Type K copper heat exchanger that can easily be clogged by scale. It's common for such water heaters to be installed on restaurant projects without ion exchange water softeners.

To prevent scale from clogging Shake Shack's heat exchangers, Henderson specifies the heaters with the manufacturer's recommended pretreatment system. This system consists of a water filter shell with media using template-assisted crystallization (TAC) technology to condition and control the scale. Ion exchange or TAC technology does not preclude requirements for regular manufacturer-recommended cleaning of the heat exchanger tubes.

Using instantaneous gas water heaters saves Shake Shack valuable floor space and offers water heating system redundancy. Like any other water heating system, consideration for mounting, piping and access space for maintenance must be accounted for.

Finally, an understanding of the locality's water hardness is necessary to aid in the decision between providing ion exchange water softening or water heater manufacturer-recommended TAC water conditioning.

Warren Rosenbrook, PE, CPD, FASPE, is the Plumbing Technical Director at Henderson Engineers, a national building systems design firm.

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Chris Imhof, PE, CPD
Vice President- Legislative

Legislative Report

WSSC Water is Seeking Public Comment on Proposed Changes to the WSSC Plumbing and Fuel Gas Code.

WSSC Water is proposing amendments to adopt the 2021 International Plumbing Code and the 2021 International Fuel Gas Code and also make some technical and administrative modifications to the 2018 WSSC Plumbing and Fuel Gas Code. The proposed changes have been preliminarily reviewed by the WSSC Plumbing and Fuel Gas Board and are being released for public comment.

In addition, the proposed changes are being coordinated with interested stakeholders; including the Maryland National Capital Building Industry Association, the Apartment and Office Building Association of Metropolitan Washington, the Restaurant Association of Maryland, the Washington Suburban Master Plumbers Association, the Mechanical Contractors of America-Metropolitan Washington chapter, the Association of Air Conditioning Professionals, the American Society of Plumbing Engineers, Washington Gas and governmental agencies; including Prince George’s County Departments of Permitting, Inspections and Enforcement and the Montgomery County Departments of Permitting Services.

The proposed draft follows this Notice of Intent. Additions are in **ALL CAPS AND BOLD** and deletions are surrounded by brackets [].

WSSC Water intends to adopt these new regulations following a public comment period. Written comments will be accepted until December 5, 2022 by emailing Christopher Imhof, Technical Standards Engineering Manager christopher.imhof@wsscwater.com.

Any other questions can be referred to:
Christopher Imhof
christopher.imhof@wsscwater.com
301.206.8514

<https://www.wsscwater.com/news/2022/october/notice-intent-adopt-regulations>

A reminder that “HB 1052 – Public Safety – Gas Piping Systems – Construction Requirements” is effective as of October 1, 2022. This bill prohibits the use of non-arc-resistant corrugated stainless-steel tubing (CSST) to be used in the construction of fuel gas piping systems in residential and commercial certain buildings; and generally relating to fuel gas piping systems.

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Brian Crisp, CPD
Vice President- Membership

Membership Report

Hello again everyone! Who is excited for MONDAY NIGHT ASPE!? We have a history making meeting this month, with a good topic/presenter to boot! Lauren always tackles the topic of valves very well; it's sure to be a crowd pleaser (end of football puns).

Baltimore is up to 119 members thanks in part to the folks below! This is the largest group we've had since I can remember, but certainly since I've been VP of Membership. It's awesome to see, we've rebounded and even exceeded our membership since the "before times."

With that in mind, we try to survey those who have chosen to move on from our illustrious chapter, but if you have feedback for the Chapter to make us better or to better serve you, PLEASE LET US KNOW. Any and all feedback is honestly very appreciated.

Please join me in welcoming these folks to our chapter, perhaps "buying" them a beverage at our upcoming meetings.

Rafid Karim – Engenium Group (AYP Member)
Josh Lashbrook – Engenium Group (AYP Member)
Jordan Bonilla – U.S. Army Corps of Engineers (AYP Member)
Thomas Kilgannon – RWC (AYP Member)
Jay Antho – UV-System
Nathan Buss – Merit Brass
Todd Thompson – MidSouth
Shaya Abramson – Abramson Engineering

If you or anyone you know is interested in joining like the cool people above, or at least hearing about the benefits of membership, please don't hesitate to reach out to me. You can also join directly at <https://www.aspe.org/join>.

Thanks and see you at the meetings!

Brian Crisp, CPD, GPD
Vice President, Membership
bcrisp@jmt.com





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Note: The valve never fully closes, allowing a small amount of bypass flow to the return to avoid deadheading the recirculation pump.

CircuitSolver® Placement Do's and Don'ts

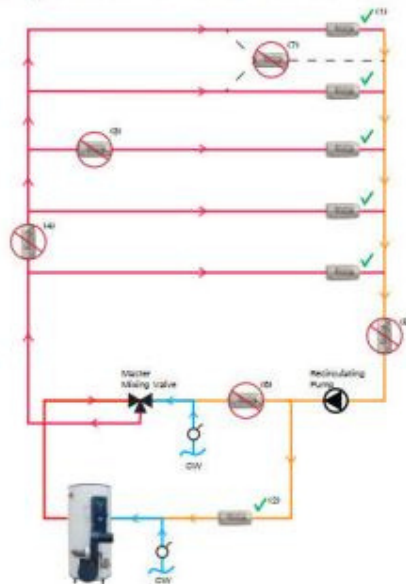
- (1) ✓ at the end of each branch/riser
- (2) ✓ in the return line back to the water heater
- (3) ✗ not in the middle of a branch/riser
- (4) ✗ not in a supply line
- (5) ✗ not in the return line
- (6) ✗ not after the recirculating pump
- (7) ✗ don't combine 2 branches/ risers

Valve Selection

Size: Select the size equivalent to the branch/riser feeding the return line.

Temperature: Select the set-point temperature equal to the desired return temperature.

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Nikita Patel, EIT, MBA
(Region 1) AYP Liaison | Education Chair



If you've made it this far into the newsletter, I'm glad to see you're still with us! I hope you enjoyed Dominic's presentation last month! Although I couldn't attend on our regularly scheduled night, I had the pleasure of learning all about 'impasta' and RO Systems the night prior, during the D.C. dinner meeting. As I was sure it would, his presentation received glowing reviews during both nights- great work Dom!

I have recently been working with Matt F. and Matt H., the YEA representatives for Baltimore ASHRAE to put our heads together for a JOINT EVENT at the new Top Golf Baltimore in Spring 2023. We think it will be a great event, but a date has not been finalized. If you are interested in hearing more about it, continue to read this far into our newsletter every month for future updates!

I am also looking for volunteers to join in a Virtual Industry Chat with high school aged students to teach them a brief background of Plumbing Engineering. if you're interested, please contact me at npatel@shermanengineering.com.

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Public health and safety are a common concern. Targeted for commercial applications, Bemis has a comprehensive offering of seats with DuraGuard® Antimicrobial Built-In Seat Protection™ and STAY·TITE™.

WHAT IS DURAGUARD?

DuraGuard is an antimicrobial property built into the toilet seat to inhibit the growth of bacteria. The active ingredient in DuraGuard is zinc pyrithione, a non-VOC (volatile organic compound), broad-spectrum, highly effective antimicrobial agent used to control mold, mildew, yeasts, fungi, algae, gram positive and negative bacteria. DuraGuard does not protect users or others against bacteria, viruses, germs, or other disease-causing organisms.

WHAT IS STAY·TITE?

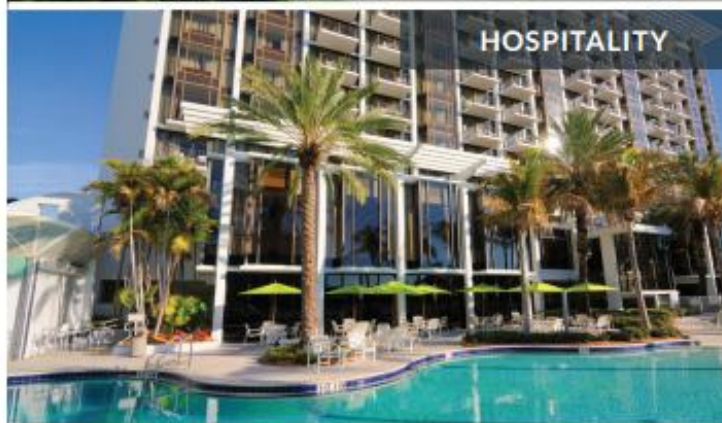
STAY·TITE Seat Fastening System™ anchors the toilet seat to the bowl by using a patented bolt design with a finned bushing and glass-filled nylon nut, eliminating the need to retighten the seat to the bowl after installation.

**CONTACT YOUR REP FOR
ADDITIONAL INFORMATION**

OFFICE



HOSPITALITY



SCHOOLS



HEALTHCARE



Schedule of Events

<u>DATE</u>	<u>TOPIC</u>	<u>PRESENTER</u>
SEPTEMBER 9	Enhance Revit Design to Increase Design Efficiency	Microdesk - Boston Chapter
SEPTEMBER 15	Industry Night on the Terrace	MCA
SEPTEMBER 28	Lab Gas Design Using the NIH DRM	Sherman Engineering - Nikita Patel
OCTOBER 26	Commercial Water Softening & RO Systems	Canature Water Group
NOVEMBER 14*	Valve Material Applications	Jomar - Lauren Berenato
DECEMBER 14	Natural Gas Design	OmegaFlex
JANUARY 25	VPMIA Code Review	Amtron
FEBRUARY 19-25	Engineer's Week	-
FEBRUARY 22	Sprinkler Design	UMD - Ken Isman
MARCH 22	Fire Pumps	STH
APRIL 26	Booster Pumps	QuantumFlo
APRIL TBD	Annual Golf Outing	-
MAY 24	WSSC Code Update	WSSC - Chris Imhof
SUMMER 2023	Summer Holiday Party	-

**Please note, this meeting will be held on a Monday*

**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.

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