



B A L T I M O R E



Monthly Newsletter

APRIL 2020

COVID-19 Update

All Chapter events and meetings are cancelled through the end of May 2020.

APRIL VIRTUAL MEETING

Available April 20th to April 26th

“The Engineer and Code Official Relationship: Common Plumbing Plan Review and Code Violations for Plumbing Systems”

Previously presented at the 2019 ASPE Technical Symposium

Details coming soon via email

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2018 - 2019

ASPE RESEARCH FOUNDATION CONTRIBUTOR

2018 - 2019

ASPE MEMBERSHIP RETENTION AWARD

2018 - 2019

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- As a paid advertiser you will have your advertisement in the newsletter for a 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 max.
- Cost per advertisement size is as follows:

<u>Size</u>	<u>Per Year</u>
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½ page	\$500
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Please Contact [Jason Eagles](#) or [Jeff Edwards](#)

Make checks payable to Baltimore Chapter of ASPE. Please contact the chapter Treasurer with any questions.

Kathy Dwyer
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kdwyer@ejdwyer.com





**Jeffrey W. Edwards, CPD ,GPD
President**

President’s Report

Needless to say, there has been one hell of a lot of changes in our lives since my last President’s Report in March. I hope and pray everyone is staying safe and healthy.

Based on mandates from ASPE’s headquarters, along with State and federal requirements, we have cancelled our normal April and May monthly meetings where our chapter members and guests attended in person. Complying with social distancing requirements, we will now be providing virtual meetings in April and May. These type of meetings will be provided from ASPE National, free to all our Baltimore chapter members as well as a way to earn CEUs from ASPE approved virtual meeting topics.

April’s virtual meeting topic will be The Engineer and Code Official Relationship/Common Plumbing Plan Review and Code Violations for Plumbing Systems. This virtual meeting will be available to all Baltimore chapter members to view online at their convenience beginning Monday, April 20th thru Sunday, April 26th. All chapter ASPE members will be pre-registered by ASPE National so they can automatically watch the virtual meeting with they chose.

All of this coordination for our virtual meetings is still in progress. There will be an email blast to all our members in the next week or so from the chapter to provide instructions and additional information for the virtual meetings. Stay tune and please stay safe.

Hopefully everyone is aware that our annual golf outing usually held in April was postponed. Our new date for our golf outing will be Friday, October 16th, 2020. Please mark your calendars.

Feel free to contact be for anything.

Best Regards,
Jeff Edwards, CPD, GPD
President-ASPE Baltimore Chapter

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Membership Awards

PRESENTATION POSTPONED UNTIL FURTHER NOTICE

Dedication is defined as a solemn commitment of your time to a cherished purpose. It is a loyalty or allegiance to a cause. We cannot think of a better term that defines many of our members. Being a member of this society is a choice and often involves hours of time devoted to the local chapter. The Baltimore Chapter would like to recognize the following members for their dedication to our chapter. We hope to present these awards at a future meeting. We will make an announcement when possible.

10 Year Awards

Brian Crisp
Andrew Cahill
Patrick Giordano
George Wilburt
Abbas Lohrasbi

20 Year Awards

Richard Grier
Brent Inners

30 Year Award

Bob Ruskey

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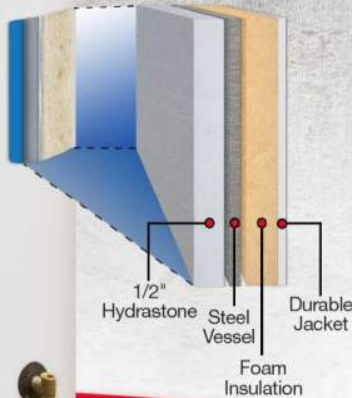
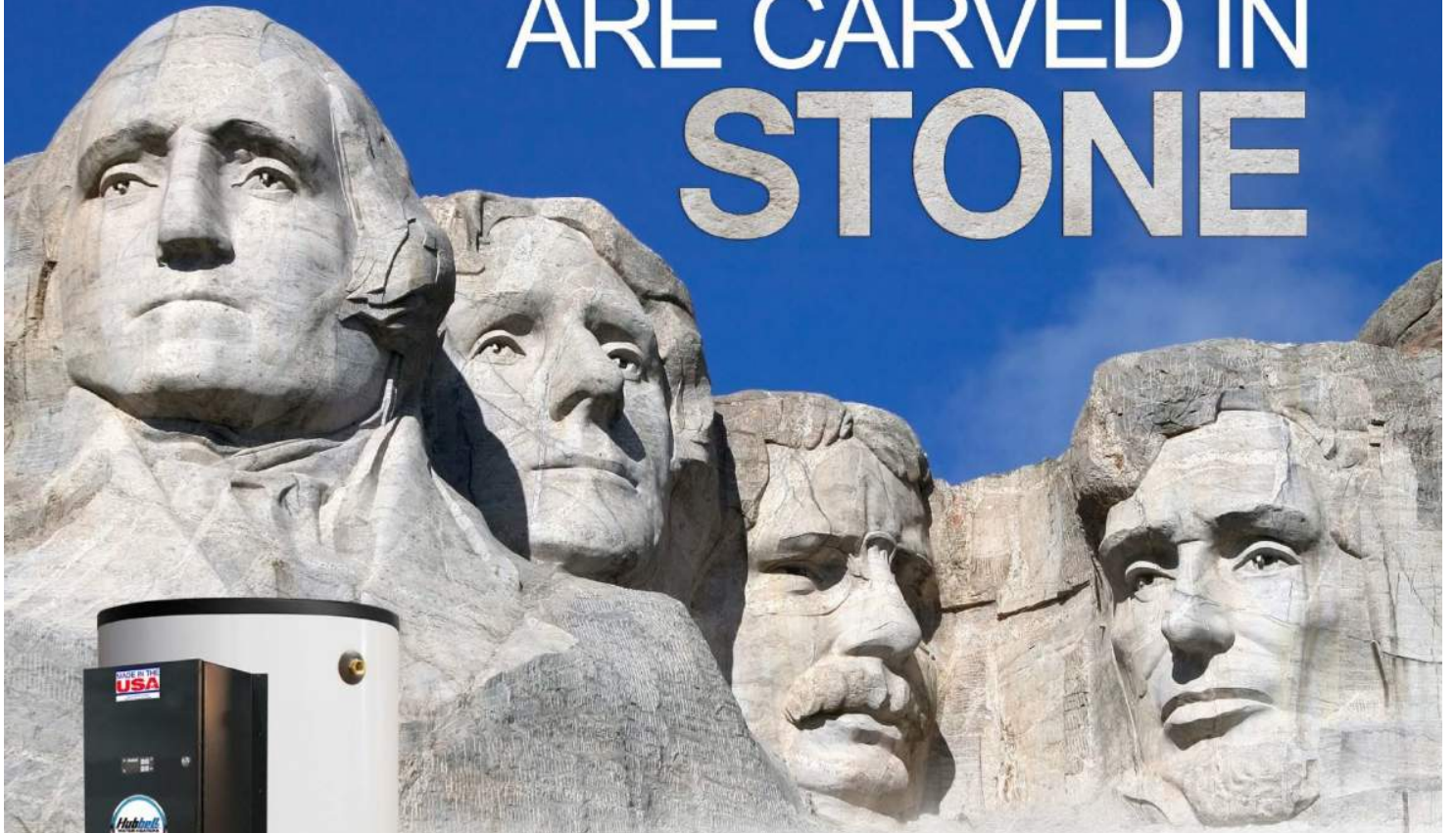
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Karen Schulte, PE, CPD, LEED AP BD+C
AYP & WOA Liaison

WOA Report

I'm really excited for our women of ASPE cooking event, however I realize with the current reality, we will not be able to hold the event at our originally scheduled date in May. While the Baltimore Chef Shop is a small venue and we were already limited to 15 attendees by the size of their kitchen, until the governor lifts the stay at home order and increases the limit of number people allowed to gather together, we won't be able to hold the event. We will let you know when we have a new date for the cooking event. I look forward to seeing all your smiling faces when we can gather together in person safely!

Best Regards,
Karen Schulte, PE, CPD, LEED AP BD+C



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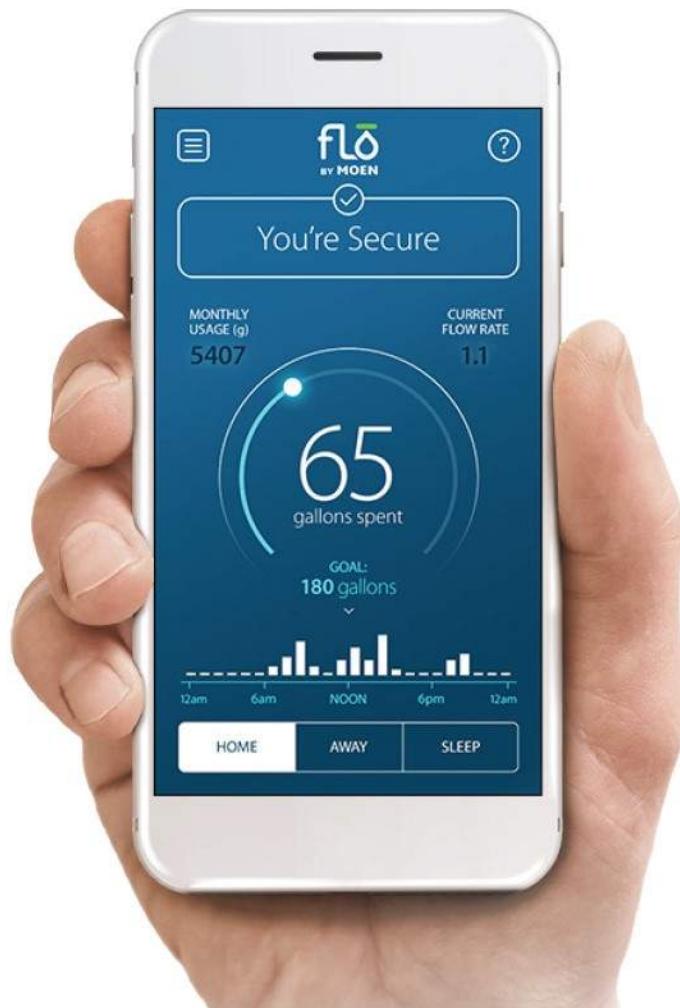
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Chuck Swope, PE, CPD, LEED AP BD+C
Vice President—Technical

Technical Report

The phrase “Strange Times” keeps popping up over and over these last few weeks from the news and from conversations. I’ll save the doom and gloom, and instead offer a more optimistic tone. There have been some great actions for the greater good and difficult decisions have been made. I am fortunate that my career allows me and my coworkers to work from home. It has been challenging, but the commute has its benefits. I will say that it is humbling to be considered part of an essential industry, and I can see the logic behind it. Without consultant engineers, manufacturer representatives, architects, and the like, our clients lose the support they need to keep their buildings operating and the ability to capitalize when the stay-at-home orders are lifted. It may not seem like it, but it will get better.

It doesn’t seem that long ago, but our last meeting was in February! Professor Ken Isman was kind enough to present on the importance of Fire Protection hydraulic calculations and I hope you gained as much as I did. Mostly what I learned was that my initial calculations were very conservative, but there is always room for refinement.

As you may have already heard our April meeting has transitioned to a virtual meeting. ASPE national has been kind enough to offer their Education portal and allow us to host a webinar titled, “The Engineer and Code Official Relationship: Common Plumbing Plan Review and Code Violations for Plumbing Systems.” This webinar was recorded at the 2019 ASPE Technical Symposium in Pittsburgh and was well attended. We will be able to make this webinar available beginning April 20th through April 26th. Much like the title says, Dan O’Gorman will discuss different topics like, the legal responsibilities of the Code Reviewer and Engineer, Roof Drainage Code Issues, Water Cross Connection issues, and others.

Best Regards,

Charles J. Swope, PE, CPD, LEED AP BD+C
Vice President - Technical



EFFECTS OF HYDRAULIC GRADES ON DOMESTIC WATER AND FIRE PROTECTION CALCULATIONS

The March 2018 and February 2020 ASPE meetings featured excellent presentations that covered almost all aspects of domestic water and fire protection systems inside buildings. But what about the municipal systems outside of buildings? Can this simply be left to the Civil Engineers or does it need to be an item of concern for Plumbing and Fire Protection Engineers too?

Throughout the entire building industry, codes and standards have gotten continually more complex and stringent. Local code officials have stepped up enforcement and many areas have experienced explosive growth in which upgrades to municipal facilities (pumping stations, piping distribution systems, etc.) may not have kept pace. This has resulted in the impact that hydraulic grades have on fire protection and domestic water design pressures getting more attention.

Domestic water is provided to many areas via municipal pumping stations and water towers. Typical water towers can hold hundreds of thousands of gallons if not millions of gallons of water. Ideally, they are located on hills; substantially higher than the areas they serve. Either at night, or when the water level reaches a critically low level, the municipal pumps turn on to refill the tower. The volume and head of the fluid in the tower allows domestic water to be available for a reasonable amount of time in case of an electrical power failure.

Therefore, when engineers receive flow tests at the beginning of projects, they must dig deeper into the flow test and ask questions such as:

- What kind of water system serves the project (water tower, ground water wells, etc.)?
- If the project is served by a water tower, what is the water level in the tower at the time of the flow test?
- For projects served by ground water wells; are there concerns that the well may run dry?
- Is the project site at a different elevation than the test hydrant?
- Have flows and pressures in the municipal water mains remained relatively constant over time or have there been large fluctuations?
- What are plans for future construction (both individual projects and upgrades to municipal systems)?

The following simple example illustrates potential challenges that Plumbing and Fire Protection Engineers face. The Engineer receives a flow test with the following information:

At first glance, it seems as if these conditions are high desirable. 97 and 81 pounds per square inch (psi) of static and residual pressure are generally sufficient for most projects. Unless the building is a high rise or there are specialty applications (hospital, critical laboratory, etc.) a fire pump and a domestic water booster pump will not be expected.

FLOW TEST RESULTS	
TEST HYDRANT (S&R) No.	F119
FLOW HYDRANT (FLOW) No.	F115
ELEVATION @S&R HYDRANT (FT)	256
ELEVATION @FLOW HYDRANT (FT)	263
HHG:	520
LHG:	433
STATIC PRESSURE (PSI):	97
RESIDUAL PRESSURE (PSI):	81
PITOT FLOW (GPM)	3214
MAIN LINE SIZE (IN)	12

The HHG and LHG in the flow test correspond to the High Hydraulic Grade (HHG; water tower full) and Low Hydraulic Grade (LGH; water tower empty) and both good design process (as well as the Fire Marshal) dictate that the static pressure to be reduced to the difference between the LHG and the Hydrant Elevation (HE):

$$\text{Revised Static Pressure } P_{rs} = \text{LHG} - \text{HE} = (433 - 256) \text{ Feet} = 177 \text{ Feet} = 76.9 \text{ PSI.}$$

The residual pressure must also be adjusted and generally it is acceptable to calculate the Revised Residual Pressure as the difference between the measured Static Pressure (Ps) and the Revised Static Pressure (Prr):

$$\text{Revised Residual Pressure } P_{rr} = P_r - (P_s - P_{rs}) = 81 \text{ PSI} - (97 - 76.9) \text{ PSI} = 81 - 20.1 \text{ PSI} = 60.1 \text{ PSI.}$$

Note that 20.1 PSI must be assumed lost due to the possibility of the water tower being empty.

The elevation of the building must be also considered. If the building is on approximately the same level as the hydrant, the impact on pressure will be negligible. But if the building is on a hill at an elevation of 297 feet, then an addition 41 feet or 17.9 PSI of pressure will be lost (building elevation – hydrant elevation).

In this simple example, 20.1 PSI was not allowed to be considered for the tower being empty and 17.9 PSI was lost due to overcoming gravity. This is a reduction in pressure of 38 PSI which has the potential to massively impact any project.

To summarize, it is important to understand the information on the flow tests which are received. Determine if numbers need to be adjusted with local code officials or by good standard engineering practice. Even if fire pumps and domestic water pumps are not needed at the time of design, consider adding provisions for them. Capped and valved piping connections, physical space, path to the exterior, empty circuit breakers, spare capacity in the electrical service and generator, etc. could all be provided in the initial design for this future use.

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Nikita Patel, EIT, MBA
AYP Liaison

AYP Report

I commend those who have made the health and safety of themselves, their family, and their colleagues a top priority by following the CDC guidelines for social distancing. The work that Engineers and manufacturer’s do, especially for hospitals, is essential every day, but especially today as we experience the COVID-19 pandemic. I am optimistic that as we ‘flatten the curve’, our lives will begin to return to normal, and we will come out on the other side more appreciative of every moment with friends and family.

If you or your colleagues are assisting with design work related to COVID sizing, please contact me directly for a copy of Mark Allen’s COVID Sizing Guide, a supplement to the original Medical Gas Design Guide. It provides insight on gas consumption, pressure losses, and much more.




Issue 8, April 2020

Covid; Sizing Medical Gases

Sizing Medical Gases for Covid 19

While you’re home, please tune into the ASPE Webinars between 4/22-4/28 for a FREE virtual meeting. All Baltimore ASPE members who view this webinar will earn CEUs.

Thank you and we will meet again!



Nikita Patel, E.I.T., M.B.A.
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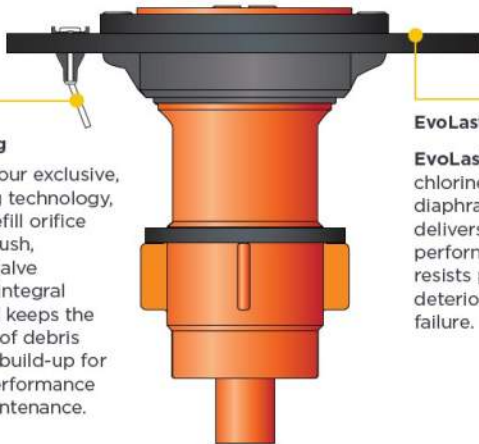


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Brian Crisp, CPD
Vice President - Membership

Membership Report

Hello again Folks!

I hope everyone is doing well during this difficult time. It's been quite an adjustment for me working from home, but I was upgraded to a window office! It's all about taking time to appreciate the little things these days I think.

To Business – Unfortunately with the March meeting being cancelled, we will have to distribute our Membership Tenure Awards at a future in-person meeting. Not sure when that'll be, but I promise it'll be worth the wait for those accepting awards.

No new members to report this month, which isn't too surprising. But as always if you or someone you know wants more information about joining ASPE or any of the programs ASPE offers feel free to reach out to me.

Brian Crisp, CPD
Vice President, Membership

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Treasurer

Treasury Report

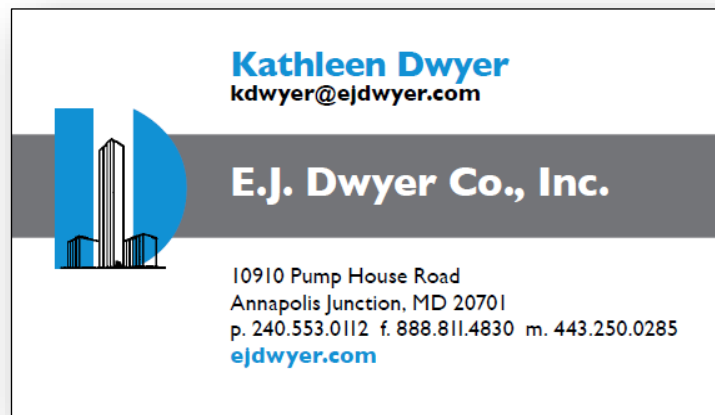
Wow! What craziness has descended on all of us since we were together at the end of February! It doesn't look like we will be able to meet during this ASPE 2019-2020 year but maybe May might work out...keep your fingers crossed. I am an eternal optimist!

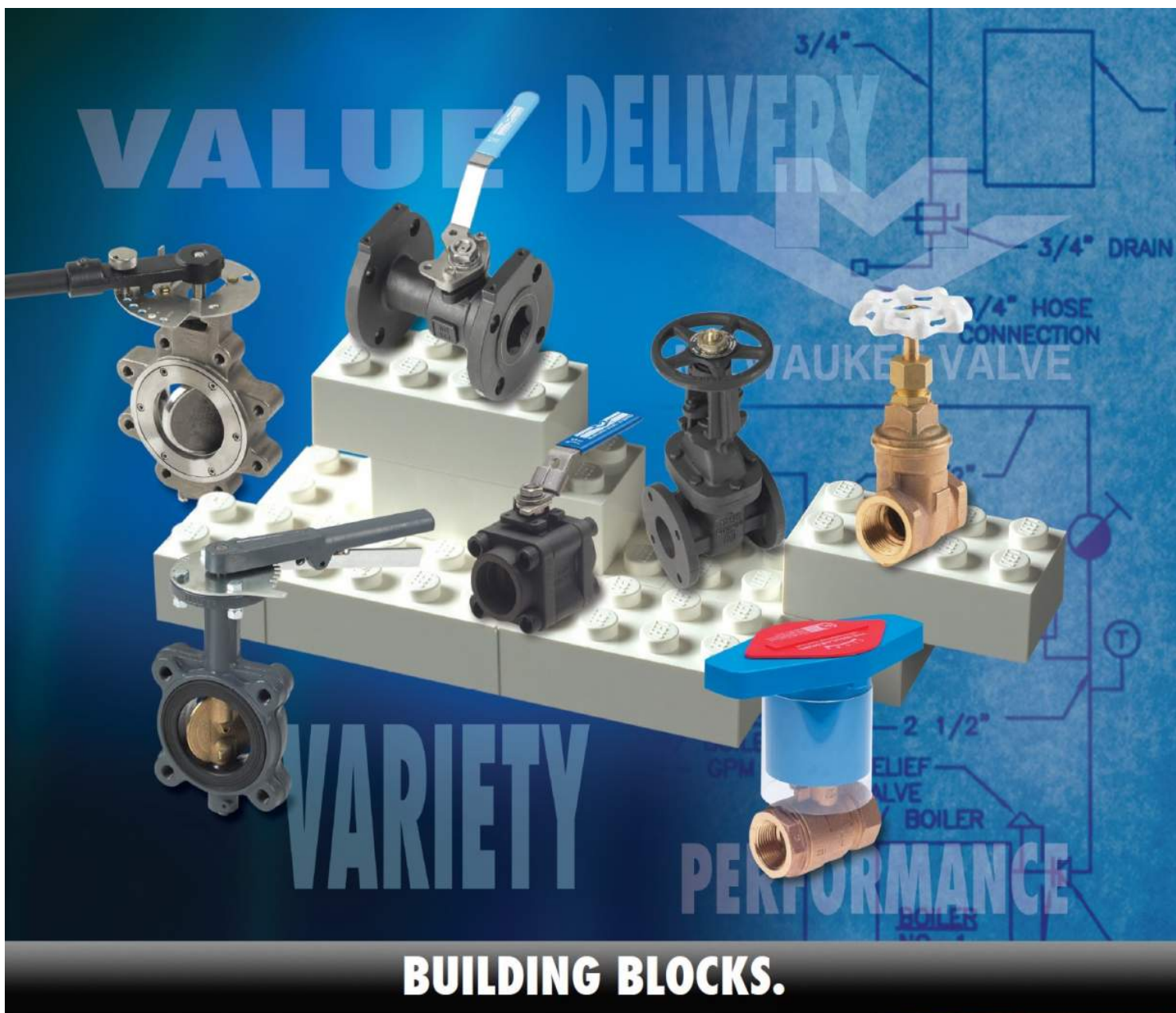
For those of you who prepaid for the March meeting that was cancelled I would ask that you call me with your address and I will send you a check. My office number is 240-553-0112 and my cell # 443-250-0285.

Please stay safe and healthy and hopefully we will all be back together before we know it.

Take care.

Kathy Dwyer





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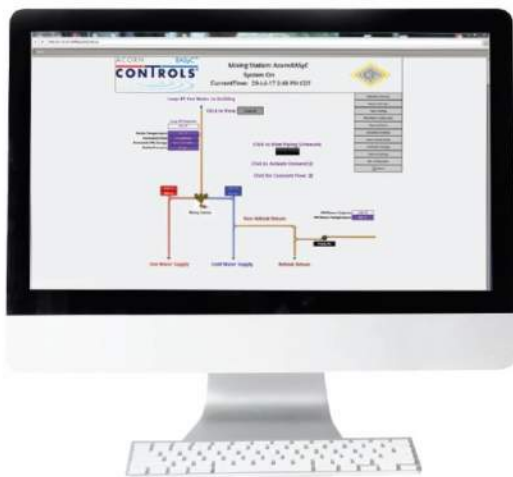
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*IAPMO CERTIFIED ACCURATE TO ASSE 1017

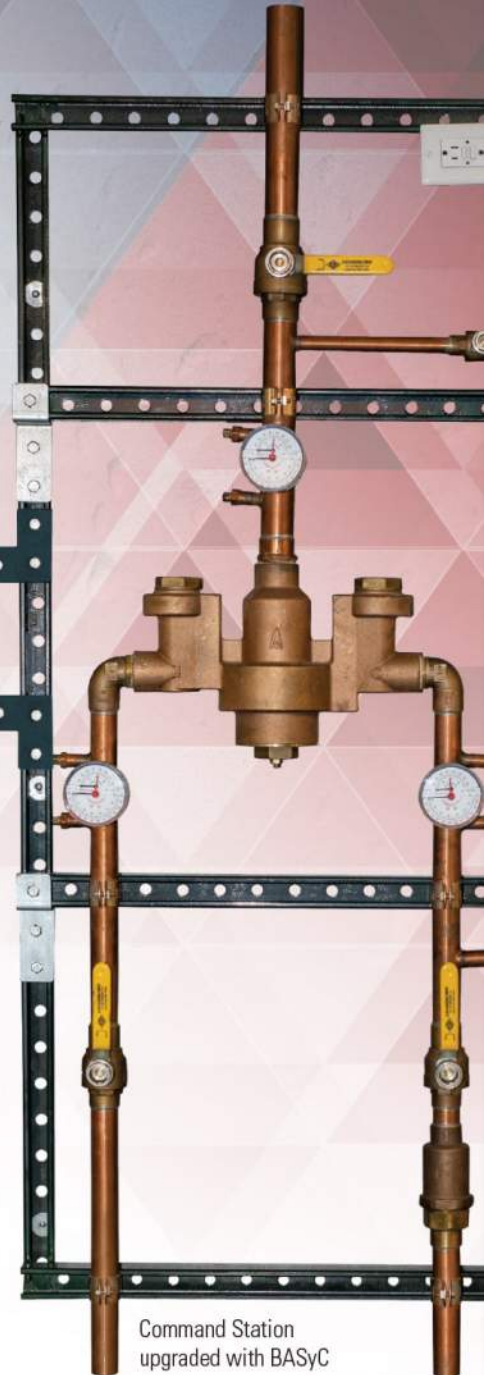
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Christopher Imhof, PE, CPD
Education Committee Chair

State Plumbing Code goes International

By Chris Imhof, PE, CPD

The Maryland State Plumbing Board recently adopted and amended the 2018 editions of the International Plumbing Code and International Fuel Gas Code. The previously adopted codes were the National Standard Plumbing Code and National Fuel Gas Code. The new State Plumbing Code is set to go into effect July 1st, 2020. The table below includes the 10 largest jurisdictions in the State of Maryland and the respective adopted plumbing, fuel gas, and mechanical codes.

Jurisdiction	Plumbing	Fuel Gas	Mechanical
Montgomery County	2019 WSSC Plumbing Fuel Gas Code*		2015 IMC
Prince George's County	2019 WSSC Plumbing Fuel Gas Code*		2015 IMC
Baltimore County	2015 NSPC	2015 NFGC	2015 IMC
Baltimore City	2015 IPC	2015 IFGC	2015 IMC
Anne Arundel County	2015 IPC	2015 IFGC	2015 IMC
Howard County	2018 IPC	2018 NFGC	2018 IMC
Harford County	2018 IPC	2018 NFGC	2018 IMC
Frederick County	2015 IPC	2015 IFGC	2015 IMC
Carroll County	2018 IPC	2018 NFGC	2018 IMC
Charles County	2015 IPC	2015 IFGC	2015 IMC

*2019 WSSC Plumbing Fuel Gas Code adopts and amends 2018 IPC and IFGC

IMC is the International Mechanical Code

IPC is the International Plumbing Code

NSPC is National Standard Plumbing Code

IFGC is the International Fuel Gas Code

NFGC is the National Fuel Gas Code (NFPA 54)

WSSC solicits ASPE members to be involved in upcoming code development process

Dear ASPE members.

WSSC Regulatory Services Division is formally asking the members of the Baltimore Chapter of ASPE for involvement in the upcoming code development process. WSSC is planning to adopt and amend the 2021 editions of the International Plumbing Code (IPC) and International Fuel Gas Code (IFGC). The 2021 edition of the IPC is available for preorder and is now available online for free. The 2021 edition of the IFGC will be available later this summer. The current code is the 2019 WSSC Plumbing and Fuel Gas Code. The code is available for free online and for purchase at the Permit Counter located at the WSSC Headquarters in Laurel, MD. The current code adopts and amends the 2018 editions of the IPC and the IFGC. These codes are available for free online or for purchase from the International Code Council.

Please provide written comment and/or endorsement. Comments/endorsements may be returned in any written format (electronic document, e-mail, paper/mail). I am requesting comments submitted by Tuesday, September 1st, 2020. Earlier is always better! I am available for a discussion by phone or email, as well as at most ASPE Baltimore Chapter meetings.

Please note, as the process moves through steps of approval, written endorsements are very beneficial to our Commissioner's as proof of an open and transparent process. The target date for adoption is July 1st, 2021.



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2019-2020 ASPE Baltimore Chapter Meeting Schedule

Date: **September 25, 2019**
Speaker: WSSC
Topic: Cross Contamination Control

Date: **October 23, 2019**
Speaker: Generac
Topic: Natural Gas Sizing for Emergency Generators

Date: **November 20, 2019**
Speaker: Viega
Topic: Opportunistic Pathogens 101

Date: **December 13, 2019**
Event: Holiday Party
Location: [Mustang Alley's](#)

Date: **January 22, 2020**
Speaker: McShane PC
Topic: Professional Ethics in Engineering

Date: **February 26, 2020**
Speaker: Professor Kenneth Isman—UMCP
Topic: Importance of Fire Protection Hydraulic Calcs

Date: **March 25, 2020**
Cancelled

Date: **April 22, 2020**
Virtual Meeting - Details coming soon

Date: **April 24, 2020**
Event: Golf Outing
Cancelled

Date: **May 27, 2020**
Cancelled



Monthly Sponsorship Opportunities

The Baltimore Chapter of ASPE continues to have successful meetings and is looking to continue improving throughout the year.

The Chapter has the following sponsorship opportunities for each month:

Tabletop Presentations: \$100 to provide a tabletop presentation of equipment or material relative to the plumbing profession. The tablespots 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 Jeff Edwards or Kathy Dwyer if interested

jedwards@muellerassoc.com

kdwyer@ejdwyer.com

