



B A L T I M O R E

Monthly Newsletter



JANUARY 2021

## UPCOMING MEETING

**January 27th: 5:30pm-7:00pm**

### VIRTUAL MEETING

TOPIC:

*Cast Iron and PVC Piping  
Value Engineering*

*Speaker: BJ Schrader—McWane*

REGISTRATION AVAILABLE AT:

<https://baltimoreaspe.com/>

A link to the meeting log-in will be sent to all registrants on Monday, January 25th and again the morning of January 27th.

*Meeting will be free to ASPE members*

*Non-member fee is \$20*

[WWW.BALTIMOREASPE.COM](http://WWW.BALTIMOREASPE.COM)

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### **Newsletter Advertising:**

- 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>
Full page	\$750
½ page	\$500
Bus. Card	\$250

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  
EJ Dwyer Company Inc.  
[kdwyer@ejdwyer.com](mailto:kdwyer@ejdwyer.com)





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

## President's Report

Happy New Year everyone.

Our first newsletter for 2021 brings us hope we can start some type of recovery for all of us that would include a successful vaccine for all of us.

Our proud ASPE chapter still worked hard in 2020 to provide articles, presenters and informative presentations to our chapter members. I want to thank all the chapter board members for their hard work and continued support during 2020.

As of right now, we are still planning on continuing with virtual monthly meetings thru May of this year. We believe we have chosen some very good informative presentations in 2021.

We are still planning on our annual golf outing at the end of April so stay tune for more information on this as we get closer.

I want to congratulate one of our chapter's board members, Karen Schulte, P.E., CPD, Leed AP BD+C, our Women of ASPE Liaison. I'm sure you know that Karen works at Mueller Associates, as do I and Chuck Swope. Karen was recently promoted to a Project Manager. Please refer to Mueller's official announcement in our newsletter for additional information. Please be sure to pass on your congratulations to Karen.

If you have any questions or would like to discuss anything regarding our chapter, please feel free to reach out to me.

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

**Mueller Associates, Inc.**    **Jeffrey W. Edwards, CPD, GPD**  
Consulting Engineers    Chief – Plumbing & Fire Protection

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## Mueller Associates Promotes Engineer

### *Mechanical/Electrical Engineering Firm Promotes Karen Schulte*

Baltimore, MD—January 4, 2021

Mueller Associates has announced the promotion of **Karen Schulte, PE, CPD, LEED AP BD+C** to project manager. Karen is a mechanical engineer with expertise working on major cultural, corporate, historic preservation, infrastructure, and higher education projects throughout the Mid-Atlantic.

Karen Schulte joined Mueller in 2006 and has 15 years of experience in the design of HVAC, plumbing, piping, and fire protection systems. She has played a key role in the engineering of several of the firm's largest and most complex projects including the George Washington University Corcoran School of the Arts and Design, Duke University's InterProfessional Education and Care Building, the Art Museums of Colonial Williamsburg, the "Marvelous Migration" Bird House renovation at the Smithsonian Institution's National Zoological Park, and numerous projects for Northrop Grumman.

Schulte holds a Bachelor of Architectural Engineering (2006) from Pennsylvania State University. She is a Professional Engineer, Certified Plumbing Designer, and LEED® Accredited Professional. Schulte is a member of the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) and the American Society of Plumbing Engineers (ASPE), where she serves as the Baltimore Chapter Women of ASPE Liaison and formerly served as the Baltimore Chapter Young Professionals Liaison.

### **About Mueller Associates**

Established in 1966, Mueller Associates provides mechanical, electrical, plumbing, and fire protection engineering services for facilities throughout the Northeast and Mid-Atlantic. The firm specializes in engineering for academic buildings, museums, libraries, performing arts centers, government facilities, and other institutional and corporate facilities requiring designs for stringent environmental control, energy conservation, and sustainability.

Current and recent projects include renovations to the Smithsonian Institution's National Air and Space Museum (NASM) in Washington, D.C.; the Enoch Pratt Free Library in Baltimore; the George Washington University Corcoran School of the Arts and Design in Washington, D.C.; the Art Museums of Colonial Williamsburg, Va.; the Peterson Family Health Sciences Hall at George Mason University in Fairfax, Va.; Morgan State University's Tyler Hall in Baltimore; the Smithsonian Institution's NASM Dulles Collections Center in Virginia; the College of Health Professions building at Virginia Commonwealth University in Richmond, the Duke University InterProfessional Education Building in Durham, N.C., and numerous projects for Northrop Grumman Corporation. For more information, visit [www.muellerassoc.com](http://www.muellerassoc.com).

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ENGINEERING GREAT EXPERIENCES



# CELEBRATE FEB 21-27 NATIONAL ENGINEERS WEEK 2021

the ENGINEERS CLUB & Engineers Week Council invite you to Engineers Week

Since 1951, National Engineers Week has helped to increase public awareness and appreciation of the engineering profession and to celebrate the accomplishments of engineers. **Due to the COVID-19 Pandemic, Activities will be virtual.** Join us for the many activities celebrating National Engineers Week and the Maryland Engineering Challenges.

## MARKING the 70<sup>th</sup> Anniversary of National ENGINEERS WEEK

Meet Maryland's most prominent engineers & technology educators at these activities.

National Engineers Week was founded in 1951 by The National Society of Professional Engineers and is celebrated annually at the time of George Washington's Birthday. Our first president was a military engineer and a land surveyor. Like our first president, today's engineers are problem solvers. They design, develop and oversee the design, manufacture and construction of products, machines and structures. Engineers Week is a time to recognize the contributions engineers have made to our way of life and to encourage students to pursue engineering careers to perpetuate advancements for future generations.

The Engineers Club and its affiliated Associate Societies encourage everyone to support these Virtual activities during Engineers Week, and the Virtual Maryland Engineering Challenges sponsored by the Baltimore Museum of Industry, 1415 Key Highway.

For more information call 410-539-6914 or log on to [esb.org](http://esb.org). For information on other challenges in the Maryland Engineering Challenges Series, visit the Baltimore Museum of Industry website at [thebmi.org](http://thebmi.org), and click the Programs link.

Happy 70<sup>th</sup> NATIONAL ENGINEERS WEEK!

### Engineers Week Virtual Activities

Tuesday	February 23 <sup>rd</sup>	ASHRAE Green Building
	10 AM to 11 AM	A Program for High School Students & Advisors to meet with engineers, discuss career opportunities & complete a design challenge using Green Building Technology.
Wednesday	February 24 <sup>th</sup>	Consider a Career in Engineering
	9 AM to 11 AM	A program for Middle & High School Students & Advisors to introduce them to the different branches of civil engineering & show them how a team of engineers interacts to design and construct a project. Presented by the ACEC/MD, MDOT- SHA & the Maryland Quality Initiative (MdQI) Industry Outreach Subcommittee <a href="https://students.mdqi.org">https://students.mdqi.org</a>
Wednesday	February 24 <sup>th</sup>	MDOT - Technology in Transportation
	1 PM to 3 PM	A Program for introducing Middle School Students to the steps the Maryland Department of Transportation (MDOT) takes to plan, design, construct and maintain roads/bridges using various modules of interactive technology. Presented by MDOT
Thursday	February 25 <sup>th</sup>	WTS - Introduce a Girl to Engineering
	10 AM to 11:30 AM	A Program for High School Girls & Advisors to introduce them to the field of civil engineering, provide an opportunity to hear from successful women who have made a career in the transportation industry and to practice what they have learned via several fun hands on activities. Presented by the Women's Transportation Seminar
Friday	February 26 <sup>th</sup>	ASPE- Plumbing System Design & Public Health
	10 AM to 11:30 AM	A Program for High School Students & Advisors to learn about how plumbing protects public health and the different professions that work within the plumbing business. There will be opportunities to meet and talk with engineers, sales representatives, architects, and plumbers.

\*\*\*ALL OF THE ABOVE ACTIVITIES ARE VIRTUAL\*\*\*

FOR MORE INFORMATION, CONTACT LEANNE HARRIS AT [LHARRIS@JMT.COM](mailto:LHARRIS@JMT.COM)



# CELEBRATE

## ENGINEERING, *Jan-May 2021*

### Maryland Engineering Challenges at the Baltimore Museum of Industry

For more information contact Jessica Celmer by email: [jcelmer@bmi.org](mailto:jcelmer@bmi.org), or visit [thebmi.org](http://thebmi.org) and click the Programs & Events tab.

#### Baltimore Museum of Industry

Engineering Challenge	Dates in 2021	Individual Event Sponsors
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In recognition of the uncertainties resulting from COVID-19, this year's Maryland Engineering Challenge competitions will be held virtually. Competition rules and project requirements are also being adjusted to enable and encourage safe participation for students.

<b>Wood Bridge</b>	January 30 <sup>th</sup>	Sponsored by American Society of Civil Engineers, Hope Furrer, Assoc., Wallace Montgomery, Assoc., KCI Technologies, Inc., STV, Inc., WBCM, & Michael J Walkley, PA
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<b>Future City</b>	February 13 <sup>th</sup>	Sponsored by the MD Society of Professional Engineers, American Society of Civil Engineers, American Society of Highway Engineers & Society of American Military Engineers
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<b>Straw Bridge</b>	April 17 <sup>th</sup>	American Society of Mechanical Engineers, Baltimore Section
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<b>Hovercraft</b>	April 24 <sup>th</sup>	American Institute of Chemical Engineers, MD Section
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<b>Cargo Ship</b>	April 24 <sup>th</sup>	Technology & Engineering Educators Association of Maryland, NAVSEA, & the Propellor Club of Baltimore
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<b>Robot</b>	April 25 <sup>th</sup>	Institute of Electronic & Electrical Engineers
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<b>Paper Airplane</b>	May 8 <sup>th</sup>	American Institute of Aeronautics & Astronautics, Mid-Atlantic Section
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<b>Safe Racer</b>	May 15 <sup>th</sup>	Whitney, Bailey, Cox & Magnani, Wallace Montgomery Employee Team
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Be Creative **DISCOVER** Celebrate  
 TRAVEL EXPLORE **CHANGE THE WORLD**  
 COLLABORATE Solve Problems  
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Happy

70<sup>th</sup>

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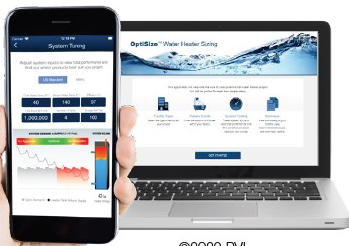
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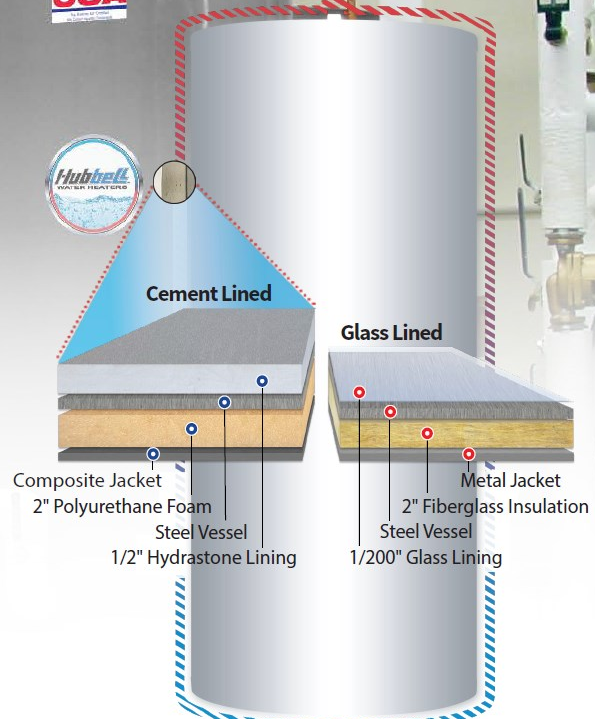
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Karen Schulte, PE, CPD, LEED AP BD+C  
WOA Liaison

## WOA Report

Welcome 2021! As all of us good engineers (and science loving folk) knew, the turning of the calendar into the new year didn't magically make the pandemic disappear. While we continue with the virtual nature of everything, stay tuned for our next Women of ASPE event, details coming in next month's newsletter!

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

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# Women of ASPE

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Jason J Eagles  
VP Affiliate, Scholarship Chair, Newsletter

## Scholarship Report

Welcome to 2021 friends of ASPE!!!

I received an updated financial report from CCBC on the John Jung Endowed Scholarship. The FY20 report is from July 1, 2019 to June 30, 2020. We awarded three scholarships this year to Jennifer Lynn Bondar, Cole Austin Force, and Brendan David Siegmann. It is a great pleasure that we get to give back to our local students who wish to pursue an engineering degree. Hopefully they will be among our ranks and in our engineering community in future years.

The Ending fund balance as of June 30, 2020 is \$79,963.30. We only get updates once a year ; however, I suspect that is even better today with the strong 4th quarter market conditions. The investment portfolio being managed at the University System of Maryland Foundation (USMF) experienced a low 0.9% return for the fiscal year ending June 30, 2020. This fiscal year was influenced by a weaker than normal year of investment returns driven by the general markets.

I am looking forward to awarding more scholarships in 2021. It is a great honor to do so in the name of John Jung each year.

Thanks,  
Jason



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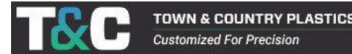
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**Chuck Swope, PE, CPD, LEED AP BD+C**  
Vice President—Technical

## Technical Report

Happy New Year! I hope that you all are looking forward to a fresh start as much as I am. This year, I'll forgo the usual (and quickly broken) resolutions and go with an easy one. This year, I pledge to leave the house more than just to go to work. Crazy, I know. I feel that with the new vaccines and a better understanding of the do's and don'ts of social distancing, we can see a return to a new normal this year.

Last month's presentation on the Installation Standards of Cast Iron Piping may have felt like old hat to some of us, but James Walls from CISPI drove some points home. The testing standards that cast iron soil piping goes through ensures that only quality material leaves the foundries to be installed in our homes and businesses. The level of care, down to radiation screening and chemical analysis, is truly impressive. To add to this conversation, we've invited BJ Schrader from McWane Plumbing Group to present on the sometimes dreaded topic of Cast Iron Value Engineering. As mentioned by James, McWane represents two of the three remaining US cast iron soil pipe foundries, Tyler and AB&I. BJ will explain how just switching out PVC for cast iron may not save as one would think. As we all know, there are far more things to consider in a building than just material cost.

BJ has been the Regional Manager for McWane Plumbing Group Technical Services in the Northeast US and is now covering the Southeast. He has worked in the technology sector as a Global Account Executive for Ricoh USA for the past 10 years. He managed Fortune 100-500 accounts and worked to grow Ricoh market share in both competitive and existing accounts. BJ also held technical sales roles as an overlay/resource for multiple RICOH and IKON teams, as well as a front-line Sales Executive on the commercial side of the business for several years. These roles included hunting and business development roles with no existing client base.

Prior to his time in sales specific roles, BJ served as an Operations Manager for Schneider National, owned and operated a logistics company and moonlit as a radio D.J./Newscaster. BJ also volunteers in his spare time for Junior Achievement, United Way, Saturday's Child and various other community organizations.

BJ has been married for 18 years and has three (outstanding) daughters. He spends most of his time at home vacillating between his children's sports, mountain biking and outdoor activities. He earned a Bachelor of Arts in Radio/Television Communications with a Minor in Spanish from Sam Houston State University, class of 2000. He studied abroad in Puebla, Mexico, and as such is bilingual.

Best Regards,

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

**Mueller Associates, Inc.**  
Consulting Engineers

**Charles J. Swope, PE, CPD,**  
**LEED AP BD+C**  
Mechanical Project Engineer

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Mechanical/Electrical Engineering

## 7 Considerations to make before accepting a value engineering (VE) proposal:

### TEMPERATURE

Many commercial kitchens, laundry facilities, and hospitals have equipment that discharges at 180°F and more. PVC is rated to 140°F and will fail in these applications. Cast iron soil pipe is rated to 212°F.

### THERMAL EXPANSION

PVC expands at over four times the rate of cast iron soil pipe. Cast iron soil pipe has a similar coefficient of thermal expansion as steel and concrete. Expensive expansion joints must be used to account for PVC's movement and extra access panels must be constructed to service those expansion joints. What is the hidden cost of those expansion joints and the extra labor to construct the access panels?

### SOUND ATTENUATION

Cast iron soil pipe is over 750% more effective at dampening plumbing noise than PVC. Sound insulating wraps will only reduce the sound a small amount and, in some cases, they will actually increase the sound. What is the hidden cost for the wrap and labor?

### HANGER SPACING

Model codes require PVC to be supported every 4 feet. Cast iron only needs to be supported within 18 inches of each joint and every 10 feet. What is the hidden cost labor and materials of having to use over twice as many hangers?



### UNDERGROUND INSTALLATION

Cast iron is strong and will not crush underground and the gaskets are designed to allow for cast iron soil pipe to deflect up to 5%. PVC is a flexible material and must be buried in accordance with ASTM D2321. What are the hidden costs of excavating an extra wide trench? What are the hidden costs of the specific fill and bedding required by ASTM D2321? Who is onsite to ensure that the pipe has been buried in accordance with the standard so that costly repairs are not needed in the future?

### PLENUM SPACES

Cast iron is non-combustible and requires no wrap or additional protective measures. PVC alone does not meet the 25/50 code requirements when tested to ASTM E84 standard and requires additional protection, such as a fire wrap. What is the added cost of the protective measures or wrap and installation? Who checks to see if it was done properly? Can you ensure that the fire wrapping will remain intact during future renovations?

### FIREWALL PENETRATIONS

PVC requires listed firestop systems, often using firestop collars and material on both sides of the penetration. In addition, expansion of the PVC or building materials may cause that firestopping material to be pulled out of the annular space. Cast iron simply needs caulking, grout, or mortar most times to fill the annular space. What is the hidden cost of the firestop collars and the installation?

**What is the true cost of Value Engineering?**

# LUNCH AND EARN.



McWane Technical Services is part of ASPE's CEU Provider Program offering continuing education units (CEUs) for professional development. Here is the current list of programs available by McWane Technical Services:

- **Cast Iron Soil Pipe Manufacturing and Associated Standards**
- **Environmental Sustainability of Cast Iron Soil Pipe Production and Use**
- **History and Overview of Cast Iron Soil Pipe**
- **Joining Methods for Cast Iron Soil Pipe and Fittings**
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**Kathy Dwyer**  
Treasurer

## Treasury Report

Welcome to 2021. We are all looking forward to a great year and many exciting topics. Crazy how much our lives have changed since last year. I certainly miss seeing all of you in person.

I am happy to report our chapter is in solid financial position. We have had many supportive companies step up and advertise which is much appreciated. I hope you will support those who support ASPE.

The Olive grove restaurant is still open for carry out and outside dining so they will be ready with their yummy crab cakes for us as soon as we get the go ahead from our governor. If you can support them with carry out meals I am sure Spyro would really appreciate it!

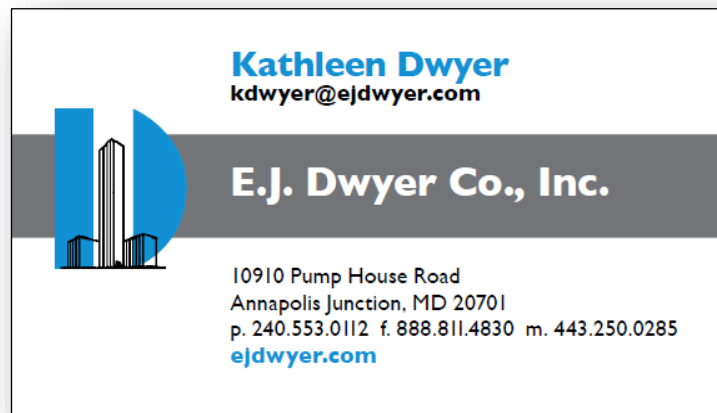
During this season of joy and giving back we have sent checks to both the Maryland Food Bank and Maryland Special Olympics on the suggestion of our fearless leader . Thank you all for your support which makes giving possible.

Please let me know if I can help you in anyway. Let's work at getting our associates excited to attend our virtual meetings.

I look forward to seeing all of you on your computers soon!

Thanks,

Kathy



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**Bradford White** is an American, employee-owned company founded in 1881 with a simple vision, to deliver high-quality water heaters made by American craftspeople. They currently employ over 2,300 people and have four locations in America, with headquarters in Philadelphia, Pennsylvania, and three manufacturing plants in Middleville and Niles, Michigan, and Rochester, New Hampshire. Bradford White is Built to be the Best and American Strong.



[www.eemax.com](http://www.eemax.com)

**Eemax** was established in 1988 and located in Waterbury, Connecticut. They are the number-one supplier of tankless electric water heater solutions in America. For over 25 years, they have offered energy-efficient, on-demand hot water heaters for commercial applications, residential homes, industrial and safety applications.



[www.oatey.com](http://www.oatey.com)

**Oatey Company** was founded in 1916 with headquarters in Cleveland, Ohio. They are the leading manufacturer of solvent cement, roof flashings, washing machine outlet boxes, and hundreds of other plumbing specialty products. They are the parent company to other American-owned and operated brands, including Keeney, QuickDrain USA, Cherne, Harvey, and Hercules, with 18 locations worldwide.



[www.tracpipe.com](http://www.tracpipe.com)

**OmegaFlex** was established in 1975 and located in Exton, Pennsylvania. They lead the flexible metallic piping industry with over 200 registered patents worldwide. In 2004, they introduced the **TracPipe CounterStrike** flexible gas piping used for natural and propane gas for residential and commercial applications.



[www.watts.com](http://www.watts.com)

**Watts** was established in 1874 by Joseph Watts, the inventor of water pressure regulators. They are headquartered in North Andover, Massachusetts, with 10 locations in the United States, and 50 locations worldwide. They are the parent company to several brands, also located in the United States, including Ames, Backflow Direct, Dormont, and Mueller Steam. They proudly support the Buy American Act on a number of their products.

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**Christopher Imhof, PE, CPD**  
Education Committee Chair, VP - Legislative

## Legislative and Education Reports

### Legislative

I am a member of the Plumbing, Fuel Gas, and Mechanical Code Action Committee (PFGCAC) for 2024 code development for the ICC codes. The action committee held their final meeting regarding proposed changes to codes. Web posting of “proposed changes to the I-Codes” shall be done no later than March 21<sup>st</sup>, 2021. Code Action Hearings will be held virtually during the period of April 11 – May 5, 2021. For more information, please continue to read this newsletter for updates

A reminder that WSSC Water has extended the solicitation period for 2021 code development cycle until June 1<sup>st</sup>, 2021. I am the Technical Standards Engineering Manager for WSSC Water and if you have any comments or questions please send me an email, [christopher.imhof@wsscwater.com](mailto:christopher.imhof@wsscwater.com)

### Education

As I mentioned in previous newsletters, the Chapter is currently working with the Engineers Club of Baltimore to organize our 2021 Engineers Week Event. This will be the 3<sup>rd</sup> year the Chapter has hosted an event for Engineers Week. The event is scheduled to take place Friday, February 26<sup>th</sup> and will be hosted virtually. We are planning on hosting an essay/poster contest for those who attend with gift cards as prizes.

Regards,

Chris Imhof, PE, CPD  
Vice President – Legislative  
Education Chair



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**Brian Crisp, CPD**  
**Vice President - Membership**

## Membership Report

Hello again folks! Happy New Year!

The start of a brand new year, I hope everyone enjoyed their time during the holidays and is ready to debate plumbing topics at our next meeting! Maybe we'll get to have physical meetings this year, but if not please join us for the virtual meetings; they're still a great atmosphere.

Just a reminder, if you let your membership lapse (for financial reasons or otherwise), as long as you renew within a year of when your membership expired, you can maintain your tenure. If you have any questions about this, feel free to reach out to me.

The Baltimore Chapter is holding steady at 114 current members, with a couple new members since December. Please join me in welcoming them to our chapter, with a digital-cheers or shout-out during the next meeting.

Ben Janik – Mueller Associates  
Matthew Bieganski – VMA Associates

If you or anyone you know is interested in joining, 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  
Vice President, Membership  
[vpmember@baltimoreaspe.com](mailto:vpmember@baltimoreaspe.com)



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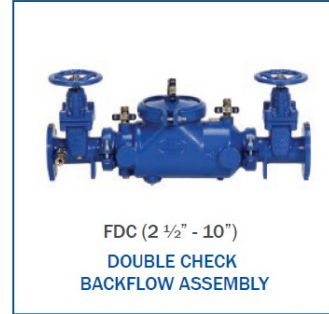
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# 2020-2021 ASPE Baltimore Chapter Meeting Schedule

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Date: **September 23, 2020**

Speaker: Niki Patel -Sherman Engineering

Topic: NFPA 99

Date: **October 28th, 2020**

Speaker: Ed Ross -QuantumFlo

Topic: Booster Pumps

Date: **November 18th, 2020**

Speaker: Lauren Berenato –Jomar Valve

Topic: Valves 101

Date: **December 16th, 2020**

Speaker: James Walls–CISPI

Topic: Installation Standards of Cast Iron Piping

Date: **January 27th 2021**

Speaker: BJ Schrader/Laura Loziuk –McWane

Topic: Cast Iron and PVC Piping Value Engineering

Date: **February 24th, 2021**

Speaker: Ken Isman –UM

Topic: Fire Protection Standpipe System Design

Date: **March 24th, 2021**

Speaker: Jeff Henscheid –PVI

Topic: Water Heater Sizing, Construction & Efficiency

Date: **April 23, 2021**

Event: Annual Golf Outing

Date: **April 28th, 2021**

Speaker: TBD

Topic: Engineering Liability

Date: **May 26th, 2021**

Speaker: Tom Weaver Associates /Franke

Topic: Engineered Infection Prevention



## 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 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 Jeff Edwards or Kathy Dwyer if interested

[jedwards@muellerassoc.com](mailto:jedwards@muellerassoc.com)

[kdwyer@ejdwyer.com](mailto:kdwyer@ejdwyer.com)

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