



B A L T I M O R E

Monthly Newsletter



DECEMBER 2020

UPCOMING MEETING

December 16th 5:30pm-7:00pm

VIRTUAL MEETING

TOPIC: *Installation Standards of
Cast Iron Piping*

Speaker: *James Walls- CISPI*

REGISTRATION AVAILABLE AT:

<https://baltimoreaspe.com/>

A link to the meeting log-in will be sent to all registrants on Monday December 14th and again the morning of December 16th.

Meeting will be free to ASPE members

Non-member fee is \$20

WWW.BALTIMOREASPE.COM

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Please Contact [Jason Eagles](#) or [Jeff Edwards](#)

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Jeffrey W. Edwards, CPD ,GPD
President

President’s Report

Here we are with just weeks left till the end of 2020. If you are like me, I can’t wait and hope and pray 2021 will be a comeback year for our entire country.

With all that we’ve endured this year, I hope and pray everyone has a safe and wonderful Holiday Season.

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

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Chief – Plumbing & Fire Protection

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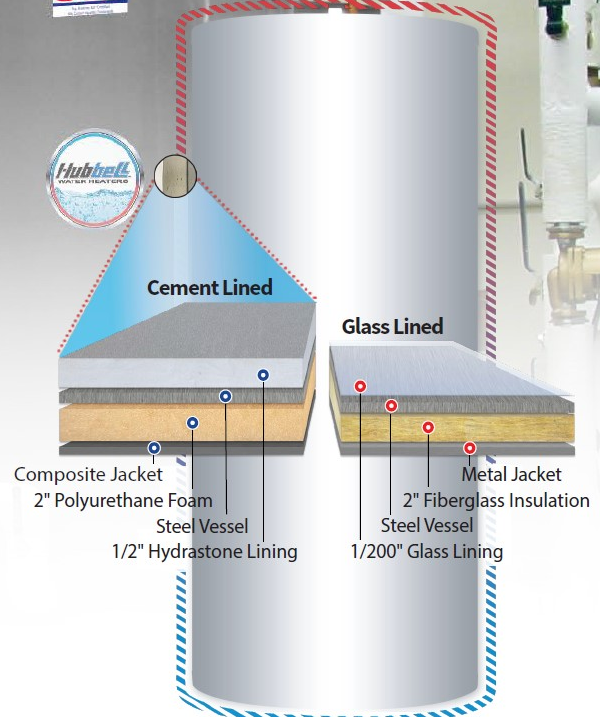
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Chuck Swope, PE, CPD, LEED AP BD+C
Vice President—Technical

Technical Report

Another calendar year is ending, and (hopefully!) all of the trials that came with it! This year, we have seen a pandemic of epic proportions, bush fires, murder hornets, and so many other “unprecedented” events that the word unprecedented has lost all meaning. However, I’ve also personally witnessed an equal response toward charity and adaptation to these tribulations. Disparate manufacturers pressed their facilities into service to make the necessary products that you wouldn’t think possible. Distillers made hand sanitizer, auto manufacturers made ventilators, and everyone learned how to sew a mask! I want to personally thank those that made this possible, especially those that serve the public in their own way.

Thanks for sticking with me so far, because I also wanted to thank Lauren Berenato from the Jomar Group for a great technical session last month. She presented on the important topic of Valves 101, covering how each type of valve work and the applications for them. It’s easy to overlook the importance of selecting the right valve for the right job and I hope you all were exposed to some new information.

This month, we would typically have our holiday party, but in light of the current climate we’ve decided to let our members celebrate at home where it’s safe. Instead, we’ve invited an important guest, James Walls from the Cast Iron Soil Pipe Institute (better known as CISPI) for a special December technical session. James and CISPI are dedicated to serving plumbing engineers by providing information on industry and product specifications, as well as model codes. James will present a 1-hour program on Logical Choice which will cover benefits for Cast Iron Soil Pipe (CISP) applications, product requirements for CISP and fittings, installation recommendations, ASTM and CISPI specifications.

James has been working for the Cast Iron Soil Pipe Institute for the past 23 years as a regional representative and worked for the City of Garland, Texas for a total of 19 years as a license plumbing inspector, and 10 years as the Chief Plumbing and Mechanical Official. In addition, he served as a committee member on the International Plumbing Code committee in 1995. He holds a Journeyman # J-14993, # Master # M-11317 with Medical Gas endorsement and Plumbing Inspector # I-561 with the State of Texas Board of Plumbing Examiners, past president of the Texas State Association of Plumbing Inspectors from 2016-2017 and past president of the DFW ASPE chapters 2018-2020.

One last note, we understand that there are some members that have not yet received their CEUs from our previous meetings. We’ve contacted ASPE and they are working to resolve this issue. I’ll keep our attendees posted when I know more.

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

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Mechanical/Electrical Engineering

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UNDERGROUND INSTALLATION

Because cast iron is up to 10 times stronger than all thermoplastic materials, it does not need the compaction of the sidefill to support the pipe wall.

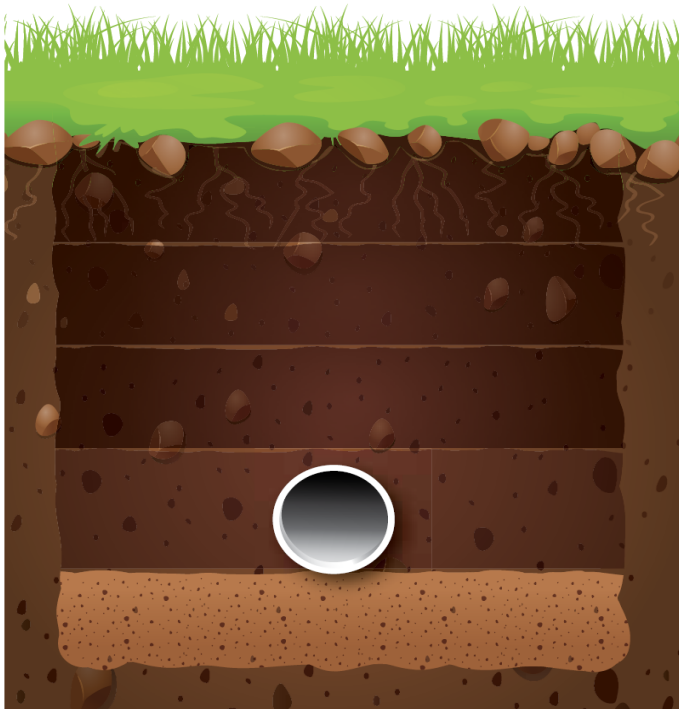
Proper underground piping installation is one of the most misunderstood piping applications. Proper installation of plastic pipe increases the installed cost of the product dramatically. Underground piping is expected to support not only the earth load, but the live (traffic) load above it as well, all while limiting deflections or obstructions that can cause joint leaks. Cast iron soil piping, defined as a rigid material, can handle these loads with no deflection. Defined as flexible systems, plastic piping is subject to deflection if not properly installed. The point of failure for plastic pipe is deflection in excess of just 5% of the inner diameter of the pipe, according

to the ASTM D2321 standard. This 5% limit means only a quarter inch in deflection in a four-inch pipe is defined as a failure.

With plastic installations, the sidefill stiffness of the trench is critical to support the pipe. For thermoplastic pipe, the trench is required to be the width of the pipe O.D. plus 16 inches or pipe O.D. times 1.25 plus 12 inches. For example, a six-inch pipe would require a 20-inch wide trench—that's a lot of extra digging on the front end and extra compaction on the backfill. Compaction in six-inch maximum layers—done by hand—is required by ASTM D2321. Depending on

the soil type, minimum compaction density can range from 85% to 95%. Because cast iron is up to 10 times stronger than thermoplastic materials, it does not need the compaction of the sidefill to support the pipe wall, so the trench can be as narrow as the installer wants.

Also, the plastic trench involves special bedding requirements—a minimum of four inches of material depending on the soil type to support the pipe. Cast iron requires no such bedding, only that the trench bottom be flat so that the pipe is uniformly supported. Again—a lot of extra work and materials when it comes to plastics, and a lot of extra cost.



PVC SOIL PIPE

As a flexible material, PVC is dependent on sidefill stiffness to limit deflections. ASTM D2321 recommends a trench width of the pipe outside diameter plus 16 inches or pipe outside diameter times 1.25 plus 12 inches.



CAST IRON SOIL PIPE

The rigid material of cast iron pipe does not depend on sidefill stiffness, so the trench can be as narrow as the installer needs to make joint connections.

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UNDERGROUND TRENCHING COMPARISON

DWV pipe made of PVC takes several extra steps to install versus reliable Cast Iron Pipe. That's why smart contractors make sure they choose Cast Iron.

While plastics meet minimum construction standards in many cases, what meets code and what represents the best solution for high performance commercial buildings are two very different questions. All too often, the perceived cost advantages of plastic over cast iron are not what they seem.

Underground Installations	CISP	PVC ASTM D 2321
Failure Mode	Rigid - Crush	Flexible
		5% Deflection
		Infiltration / Exfiltration
		Dependant upon side fill
Trench Width	Minimum Width	O.D. + 16" or O.D. x 1.25 + 12"
		6" Pipe - 20" trench
Trench Bottom	Flat w/ hub or coupling holes	Dependant upon soil type
	Uniform support	4" bedding standard
	No special bedding	6" in rock
Compaction	No special requirements	6" layers to spring line
		Hand compact around pipe
		85% - 95% compaction

THE MARK OF QUALITY—CAST IN IRON

CAST IRON SOIL PIPE INSTITUTE

The Cast Iron Soil Pipe Institute (CISPI) was organized in 1949 by the leading American manufacturers of cast iron soil pipe and fittings. The Institute is dedicated to aiding and improving the plumbing industry.

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Nikita Patel, EIT, MBA
AYP Liaison



AYP Report

I hope everyone enjoyed their time off for Thanksgiving! My contribution to our small gathering was a homemade coconut cream pie, and it was delicious! I am thankful for many things this year, including the continued good health of my loved ones, and the great support we had for our AYP event last month.

The event in late November was so fun and would not have been possible without the generosity of Jeff and the Baltimore Chapter for offering to sponsor the night's activity. This didn't just benefit our own AYPs, but also those participating from Philadelphia and Richmond chapters. Our host, Keelan, spent the evening repeatedly showing us that he knew what's on our minds better than we did! I'd like to give a warm shout out to my two counterparts for helping to organize the event, Eric Geisendaffer and Dave Raymond, the AYP Liaisons for Richmond and Philly, respectively.

Lastly, we had a lot of companies donate giveaways for our attendees, and I'd like to recognize them as well. Thank you to: McWane, Bay Associates, Sherman Engineering, Carotek, Hubbell, PVI, UEP and ROI Marketing. I appreciate everyone's support of our young professionals!

Thanks,
Niki



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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. This is my first-time being part of committee and I am learning a lot about the process. There are 3 virtual meetings scheduled for the month of December. If you're interested in attending and learning more about the process send me an email, christopher.imhof@wsscwater.com

A reminder that WSSC Water has extended the solicitation period for 2021 code development cycle until June 1st, 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

Education

As I mentioned in last month's newsletter, the Chapter is currently working with the Engineers Club of Baltimore to organize our 2021 Engineers Week Event. This will be the 3rd year the Chapter has hosted an event for Engineers Week. The event will take place the last week of February 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
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Brian Crisp, CPD
Vice President - Membership

Membership Report

Hello again folks! Only one meeting left in the calendar year before the Holidays. I wish everyone a safe and happy time with their loved ones where possible.

Did everyone engage in the 2020 ASPE Digital Experience? It was definitely a different experience than the typical Expo/Convention. I liked the ability to pop-in and pop-out when you needed to for scheduling reasons. I thought Christoph Lohr's presentation on Pandemic Plumbing was especially interesting. I always find it refreshing to hear others speak passionately about Plumbing Engineering and its potential.

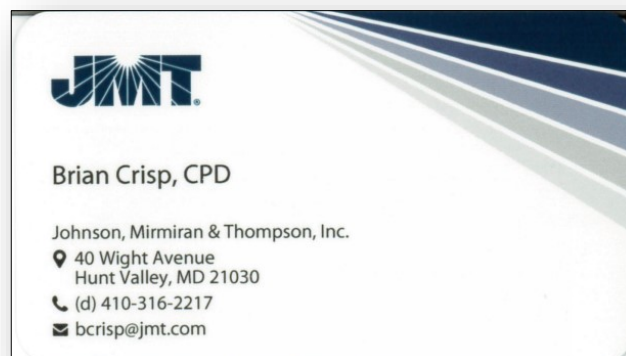
Just a reminder, if you let your membership lapse (for financial reasons or otherwise), as long as you renew within a year of when your membership expired, you can maintain your tenure. If you have any questions about this, feel free to reach out to me.

At the time of this writing, we haven't received our updated rosters yet, but I haven't received any new member notifications. So I think it's safe to say Baltimore is holding steady at 115 current members.

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
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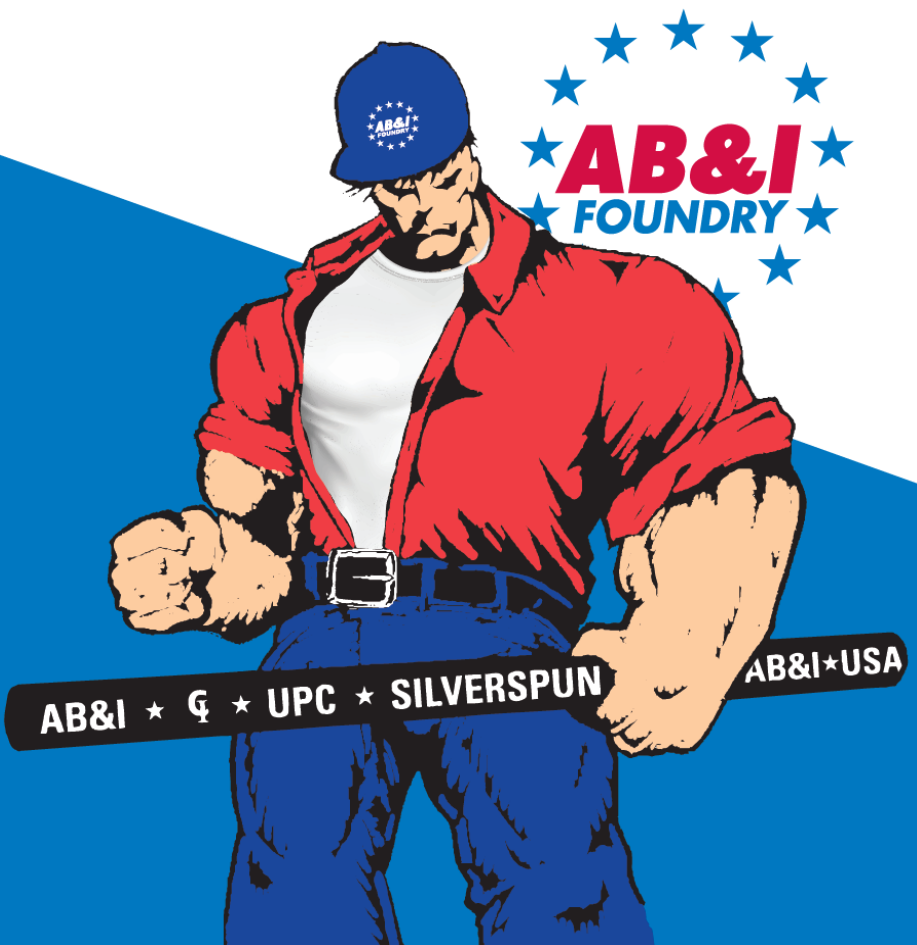
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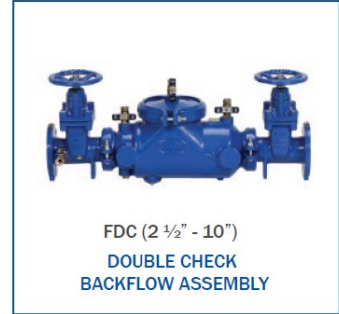
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2020-2021 ASPE Baltimore Chapter Meeting Schedule

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

kdwyer@ejdwyer.com

NOTE: ONLY APPLICABLE WHEN WE RETURN TO OUR REGULAR IN PERSON MEETING EVENTS