



Upcoming Meeting

Date: April 27, 2022

Time: 6:00pm to 8:00pm

Place: [Olive Grove Restaurant](#)

Topic: Starter Fittings—HANDS ON!

Speaker: Brian Helms—Charlotte Pipe

Meeting Format

6-6:30 Social

6:30-6:45 Announcements and Table Tops

6:45 Dinner Served

7:00-8:00 Speaker

WWW.BALTIMOREASPE.COM

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MEETING LOCATION



Olive Grove
Restaurant & Lounge

705 North Hammonds Ferry Road
Linthicum, Maryland 21090
Phone: 410.636.1385

GOLF OUTING

April 29, 2022

SEE PAGE 2/3 for details



ASPE BALTIMORE CHAPTER GOLF OUTING and COOKOUT

**Friday, April 29, 2022
The Timbers at Troy
Columbia, Maryland
\$125 / Golfer**

- Prizes for Team Play
- Door Prizes
- Longest Drive Prizes
- Closest to the Pin Prizes

SCHEDULE

7:30 AM	Registration/Check-In/Breakfast			
8:30 AM	Shotgun Start Scramble Format "Captain's Choice" Mulligans Available		1:30 PM	Cookout (Hamburgers, Hot Dogs, etc.)
			2:00 PM	Awards & Prizes

Sponsors and Participants, please contact/return registrations to:

David K. Goodell
dgoodell@jamesposey.com
 James Posey Associates
 Suite 310
 11155 Red Run Boulevard
 Baltimore, MD 21117
 Phone: (410) 265-6100

(For Credit Card Payments, please contact chapter treasurer
 Kathy Dwyer via email: kdwyer@ejdwyer.com)

**Make checks payable to ASPE Baltimore Chapter.
 Reservations will be confirmed when check and participant information is
 received.**

PLEASE RETURN COMPLETED FORMS BY APRIL 15, 2022

Company _____

Name _____ Phone No. _____

No. of Golfers: _____ @ \$125 each Total for Golfers: \$ _____

Sponsorship Level: _____ Total Sponsorship: \$ _____

Total Amount: \$ _____

2022 ASPE Baltimore Chapter Golf Outing Sponsorship Levels

- **Tee Marker (with Foursome)** **\$125.00**

- **Tee Marker (without Foursome)** **\$150.00**

- **Drink Cart Sponsorship** **\$600.00**
(Includes tee marker and drink cart sign)

- **Cookout Sponsorship** **\$600.00**
(Includes tee marker and cookout sign)

- **Cart Sponsorship** **\$600.00**
(Includes tee marker and cart signs for each cart)



All proceeds from the Golf Outing will benefit future Chapter events and activities.

Please make checks payable to: **ASPE Baltimore Chapter**

Mail registration and payment to:

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ADVERTISING

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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





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

Technical Report

A big thank you to Jay Otto from Otto Sales. Jay has been a loyal friend to the chapter and a dedicated board member. His presentation on Rainwater and Greywater Systems was well received and shows his dedication to converting rainwater to drinking water. It is good to know that Local Jurisdictions in Maryland, Virginia, and DC are approving these systems for use in our buildings today. I can personally attest that rainwater harvesting is evaluated at the beginning of most of the projects that I am involved with. (Don't tell Jay that only about half make it out of the concept phase.)

Our April technical session is shaping up to be a great one to attend! This month will be our first hands-on event during our regularly scheduled meetings and will explore the history and applications of Starter Fittings, the types of Starter Fittings, Installation practices and conclude with hands-on installation in small groups. Starter Fittings combine many different fittings into one single, compact fitting and have been used for generations to make commercial DWV installations more efficient. Used in combination with thoughtful plumbing design, Starter Fittings will reduce the total number of fittings and joints in an installation, fit better within confined plumbing walls, and improve the overall quality of a project. This maximizes profitability for the installing contractor. Starter Fittings are available in multiple inlet configurations to fit building needs. Brian Helms from Charlotte Pipe and Foundry will lead us through his presentation with help from Cameron Baucom, and Sal Terranova

Brian Helms is the Training Manager for Charlotte Pipe and Foundry. Brian attended the University of North Carolina at Charlotte and holds active PMP, CPTM and CTC certifications. He currently leads Charlotte Pipe's Product Knowledge Training Program but also has experience as a Field Technical Services Rep, Model Mechanical and Plumbing Code development as well as plastics and cast iron pipe and fitting manufacturing. He has written articles for such industry publications as Plumbing and Mechanical and Plumbing Engineer and has been employed with Charlotte Pipe for over 24 years. Cameron Baucom is a Technical Services Representative for Charlotte Pipe. Cameron attended Wingate University and holds an active CTC certification. He assists in Product Training and is the Field Technical Services Rep for Arkansas. Sal Terranova is the Field Technical Services Representative for the North Atlantic region of the United States. His responsibilities include educating the engineering community as to the best installation practices and materials for all DWV and Storm piping applications. He has delivered multiple accredited presentations at industry organizational meetings, and individual Engineering offices. Sal is based out of his regional office in Milford, CT. He has over 26 years of experience in both the HVAC and Plumbing industry. Sal has held positions in Consulting Engineering, Contracting, and as a Manufacturer's Representative prior to joining Charlotte Pipe & Foundry in 2014.

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

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ASPE Design Guide Volume 4 Chapter 4

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“When selecting the total flow capacity, one preferred way to evaluate the operational efficiency is to use a method that can be scientifically proven, such as the 70 percent method.”

“Tanks will typically be required when the manufacturer does not utilize low flow testing algorithms to detect low flow”

“New energy standards concede that reducing the speed of a pump during most of its operational time and restarting for makeup loads is more efficient than using tanks as “water storage batteries” during low-flow conditions.”

** The above is taken from American Society of Plumbing Engineers design guide volume 4 chapter 4**

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Pig vs Scrap Iron

When it comes to quality soil pipe and fittings, scrap beats pig every time.

March 7, 2017



There is a notion being propagated by importers of Chinese-made cast iron soil pipe and fittings that the use of “virgin” pig iron as a raw material for manufacturing these products is preferable to recycling scrap iron into new products. While pig iron may be the more economical input, technically and ecologically speaking, scrap iron is a far superior raw material.

Products produced in modern foundries in developed countries never contain 100 percent pig iron, an intermediate product of the smelting of iron ore, and in fact they are normally produced with no pig iron at all. Grey iron castings for automotive, agricultural, construction, power, plumbing and waterworks are almost universally produced using 100 percent recycled iron and steel scrap as feedstock but because it is a better raw material.

The use of recycled materials allows skilled manufacturers to blend the correct ratios of different types of scrap and other inputs to produce the most uniform chemistries and metallurgical properties. U.S. domestic foundries use spectrometers for metallurgical analysis to ensure the physical and chemical properties of grey iron castings meet all the required specifications.

Foreign foundries in less developed countries use pig iron because it is cheap. An oversupply of iron ore, combined with declining global industrial demand and Chinese steel-making overcapacity, resulted in a slump in iron ore prices over the past two years. As a result, Chinese pig iron has become an attractive raw material.

But the use of 100 percent pig iron restricts the melting process to the chemistry of the pig iron, which can vary wildly. What goes in must come out, and the foundry using 100 percent pig iron has little control over the metallurgy of the iron that goes into its products. The use of 100 percent pig iron is generally restricted to the

This article originally appeared in *Plumbing Engineer*, a TMB Publishing publication. For more articles like this, please visit www.phcpro.com.

foundries that do not possess the equipment, resources or knowledge to properly utilize scrap as a raw material.

Scrap is also far better for the environment. U.S. foundries and steel mills are some of the largest recyclers in the country, melting hundreds of thousands of tons of scrap iron and steel each year. Charlotte Pipe and Foundry cast iron soil pipe products are certified to contain 98 percent post-consumer recycled material and can be recycled again at the end of their useful life.

Iron ore, on the other hand, must be mined, processed, reduced to molten iron in a blast furnace, cast into solid “pigs”, and then re-melted to produce iron suitable for casting into pipe or fittings, putting an unnecessary strain on the environment.

China is the largest producer of iron ore in the world and ore mining in that country is a dirty, and often unregulated, industry. Most iron ore in China is extracted through opencast, or open-pit, mines – a surface mining technique of extracting rock or minerals from the earth. Open-pit mining can be an extremely destructive practice that often has very negative impacts on the surrounding environment. Open-pit mining creates large amounts of mineral waste in the form of waste rock and tailings. Tailings are the waste material from the ore processing phase, and it often contains toxins left over from the ore separating process along with heavy metals that were not fully removed.

Waste rock and tailings contain lead, minerals and other materials that can lead to dangerous runoff and water contamination when stored improperly. Some mine waste and tailing dump sites in China are structurally unsound and can overflow or break, allowing contaminants to spill out over the surrounding environment, as was the case at the Tashan mine in Linfen city, China (the most polluted city in the world).

In 2008, a devastating mud and rock slide caused by the collapse of a waste reservoir at Tashan buried more than 300 people. The subsequent Chinese government investigation found that the accident at the unlicensed ore mine was caused by illegally discharging waste sand into the mine’s tailings dam on a mountain above a village. When the dam reached its capacity amid heavy rains, it burst, inundating a crowded marketplace and killing 277 people.

But it’s not just the mining process that is dangerous and bad for the environment. Many large-scale mines have ore processing facilities on site where extracted ore is sent for crushing, washing and various physical or chemical separation processes and these processes also create pollution.

This article originally appeared in *Plumbing Engineer*, a TMB Publishing publication. For more articles like this, please visit www.phcpro.com.

The most common processing practice is the use of a blast furnace. Coke (made from coal), ore, sinter (a mixture of iron ore and other materials prepared for smelting) and limestone are fed, or 'charged', into the top of a blast furnace. A hot air blast, from which the furnace gets its name, is injected through nozzles in the base of the furnace. The blast fans the heat in the furnace to white-hot intensity, and the iron in the ore and sinter is melted out to form a pool of molten metal in the bottom, or hearth, of the furnace. The limestone combines with impurities and molten rock from the iron ore and sinter, forming a liquid 'slag' which, being lighter than the metal, floats on top of it. The molten iron from the bottom of the furnace can then be formed into solid "pigs", which are subsequently re-melted to produce iron for casting.

Neither the coke ovens nor the blast furnaces nor the foundries in less developed countries utilize modern environmental controls that are common in the developed world. These facilities produce huge amounts of hazardous pollutants and are often unregulated. The unfortunate workers at the coal mines, coke ovens, blast furnaces and foundries in China work for near slave wages and are subjected to unsafe working conditions that would not have passed muster in developed countries in the 1920s.

Domestic cast iron soil pipe products are made in accordance with strict U.S. environmental and safety regulations by American workers, keeping middle class manufacturing jobs right here at home. Do something good for the environment and your fellow Americans – specify, buy and install American-made cast iron soil pipe and fittings.

***Bill Morris** is vice president/technical services for Charlotte Pipe and Foundry. He has more than 20 years of experience in the plumbing industry.*

This article originally appeared in Plumbing Engineer, a TMB Publishing publication. For more articles like this, please visit www.phcpro.com.



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March 2022



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AYP Liaisons

Hey Young Professionals!

We had a great presentation by medical gas expert, Mark Allen, last month reviewing the core changes with the release of NFPA 99, 2021. With his experience on the technical committee, he provided great detail on not only the changes, but also the reasons behind them.

Next month, we continue the conversation with a presentation on Compressed Air Systems in Hospitals presented by me.

Scroll to the next few pages for some events that the other Chapters have prepared for this month.



Nikita Patel, EIT, MBA

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BALTIMORE

April 2022



**ASPE
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REGION 1

NEWSLETTER

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Baltimore

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Patrick Dwyer
Washington D.C.

AYP Liaisons

Hey Young Professionals!

Thank you to those who joined last month's AYP presentation. This month, we are excited to have Dan Caufield from NIBCO Inc. present "Valves 101". It will be a general valve presentation covering types of valves for plumbing and mechanical piping systems, their features, benefits, pros/cons, applications, and comparisons.

Dan is the Commercial Sales Manager for NIBCO Inc. He assists with technical information, troubleshooting & field service calls, new product launches, start-ups, lunch and learns, and master spec updates for all NIBCO, Sureseal, and Webstone products. He has been with NIBCO for nearly 30 years. We look forward to seeing you there!

Scroll to the next page to register for this event and read about what else your AYP Liaison has planned for this month.



Dan J. Caufield



Chapter Meetings

AYP Region 1	4/20
Baltimore	4/27
Blue Ridge	4/12
Boston	4/20
Capital Region	4/21
Central NY	4/13
Connecticut	4/20
Hampton Roads	4/14
Long Island	4/20
Montreal	4/20
New Jersey	4/20
New York City	4/06
Philadelphia	4/28
Quebec City	4/12
Richmond	4/13
Washington D.C.	4/26

Have an Engineering question of your own? Send it to your AYP Liaison to be featured on our next newsletter!



SUN	MON	TUE	WED	THU	FRI	SAT
<h1>April</h1>					1	2
3	4	5	6 ☁	7	8	9
10	11	12 ☁☁	13 ☁☁	14 ☁	15	16
17	18	19	20 ☁☁☁☁	21 ☁	22	23
24	25	26 ☁	27 ☁	28 ☁	29	30

A Note from your AYP Liaison

Happy Spring everyone! I hope you are enjoying this combination of summer weather and snow squalls we have been having.

Thank you to those who were able to join the AYP presentation on Compressed Air in Hospitals last month. We hope you'll be able to join us on 4/20 from 12-1PM for a presentation by NIBCO Inc. on Valves 101. Please register to attend with [this link](#).

AYP National has recently sent out a survey to all AYPs across the country on how to make this program more enjoyable and valuable to each of you. Please take a few minutes to fill this out, or use [this link](#) to access it directly.

If you, or any of your colleagues, are interested in attending any future AYP activities, please let me know. I am hoping to get one more activity in the books before we close out our technical season.

I look forward to seeing you later this month!

Niki



Nikita Patel

ASPE Connect Corner

Download the New ASPE Connect Mobile App!

ASPE has released their ASPE Connect Community mobile app! On the app, you can view and reply to existing threads, library entries, events, and more! You'll also be able to create a new discussion or ask a question from your device.

To start using the app:

1. Download the [Connected Community](#) app in the Apple or Google Store
2. Enter the community's domain name: [connect.aspe.org](#)
3. Login using your usual community credentials. Select "stay logged in" if the option appears.

Take some time to explore the community's new mobile app and reach out to me if you have any questions about the new experience!

Best,
 Andrew Holiman
 American Society of Plumbing Engineers
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Christopher Imhof, PE, CPD
Education Committee Chair

Legislative

The following are several pieces of proposed legislation that may affect the plumbing, mechanical, and fuel gas trades,

HB 0303 – Public Safety - Maryland Swimming Pool and Spa Standards – Adoption

Active Step: 3rd reading – Senate

HB 0806 – Building Standards and Emissions Reductions – High Performance, State, and Local Government Buildings, State Operations, and Eligible Projects

Active Step: Referral to Committee – House

HB 1052 – Public Safety – Gas Piping Systems – Construction Requirements

Active Step: Referral to Committee – Senate

SB 0528 – Climate Solutions Now Act of 2022

Active Step: To Governor

SB 0871 – Accessory Dwelling Unit Authorization and Promotion Act

Active Step: Referral to Committee – Senate

SB 0854 – Graywater Systems – Public and Private Buildings – Authorization

Active Step: Referral to Committee – Senate

You can read the legislation by visiting the Maryland General Assembly website: <https://mgaleg.maryland.gov/>

The 2022 Maryland legislative session ends on April 11.

Chris Imhof, PE, CPD
Vice President – Legislative
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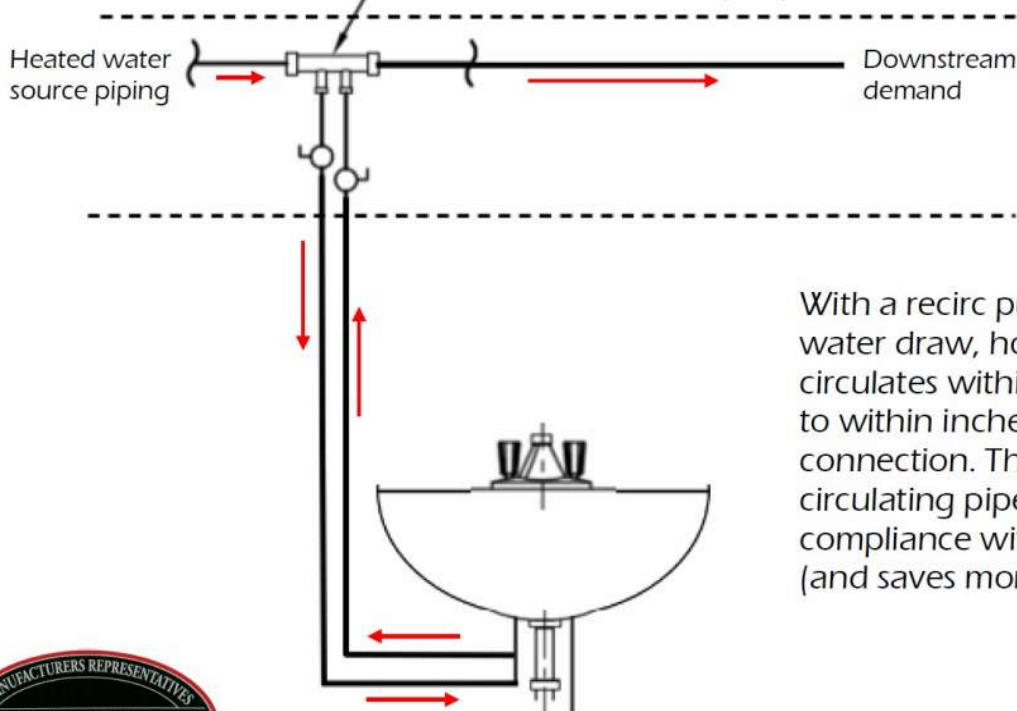
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2021-2022 ASPE Baltimore Chapter Meeting Schedule

Date: **September 22nd, 2021**
Speaker: Bay Associates
Topic: Heat Pump Water Heater Technology

Date: **October 27th, 2021**
Speaker: Highland Tank
Topic: Oil/Water Separators

Date: **November 17th, 2021**
Speaker: Ames
Topic: Direct Inline Pumping Systems for Sanitary and Storm

Date: **December 15th, 2021**
Speaker: Joyce Agency
Topic: Pressure Reducing Valves

Date: **January 26th 2022**
Speaker: STH
Topic: Fire Pumps

Date: **February 20-26th, 2022**
Engineer's Week—Postponed TBD

Date: **February 23rd, 2022**
Speaker: Prof. Ken Isman
Topic: ESFR and Cloud Ceilings

Date: **March 23rd, 2022**
Speaker: Jay Otto
Topic: Rainwater Use and Greywater Reuse

Date: **April 29, 2022**
Event: Annual Golf Outing

Date: **April 27th, 2022**
Speaker: Charlotte Pipe
Topic: Hands-on Starter Fittings

Date: **May 25th, 2022**
Speaker: EJ Dwyer
Topic: Emergency Fixtures



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

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