



UPCOMING MEETING

May 26th, 5:30pm-7:00pm

VIRTUAL MEETING

TOPIC:

Engineered Infection Prevention

Speaker:

Allan Prinsloo

Franke Commercial Systems

REGISTRATION AVAILABLE AT:

<https://education.aspe.org/products/baltimore-chapter-meeting-engineered-infection-prevention-may-2021>

*Meeting will be free to ASPE members
Non-member fee is \$25*

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

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WOA REPRESENTING AT THE 2021 BALTIMORE ASPE GOLF OUTING



Jeffrey W. Edwards, CPD ,GPD
President

President’s Report

I want to start my May President’s Report with having the entire board of the Baltimore ASPE chapter congratulate Karen Schulte and her husband Gagan, on the birth of their handsome son, Ajay, who was born on May 4th. Both mom and Ajay are doing great.

This will be our last newsletter for the 2020-2021 year. I want to thank the entire board for another great year even during these pandemic times all of us had to endure. Yes, we couldn’t do all the events we had scheduled this past year but in the end I’m very happy with the results that all of the board contributed with for our chapter meetings, newsletters, etc.

I’m happy to announce that all current chapter board members will be coming back next year in their current board positions.

I am excited to say starting this September, the chapter is planning to go back to in person monthly meetings. Thankfully, the Olive Grove restaurant survived the pandemic and is ready to welcome us back. We anticipate there could still be some sort of COVID restrictions but hopefully those won’t be something we can’t work around. We will update everyone in September.

The chapter board will be meeting in July to discuss and plan for our 2021-2022 monthly meetings, presentation technical topics, Women of ASPE (WOA) and ASPE Young Professional (AYP) events, Engineers Week, annual golf outing, membership awards along with special events that will be a topic.

Stay safe, have a safe summer, hope to see everyone next September, live and in person!

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

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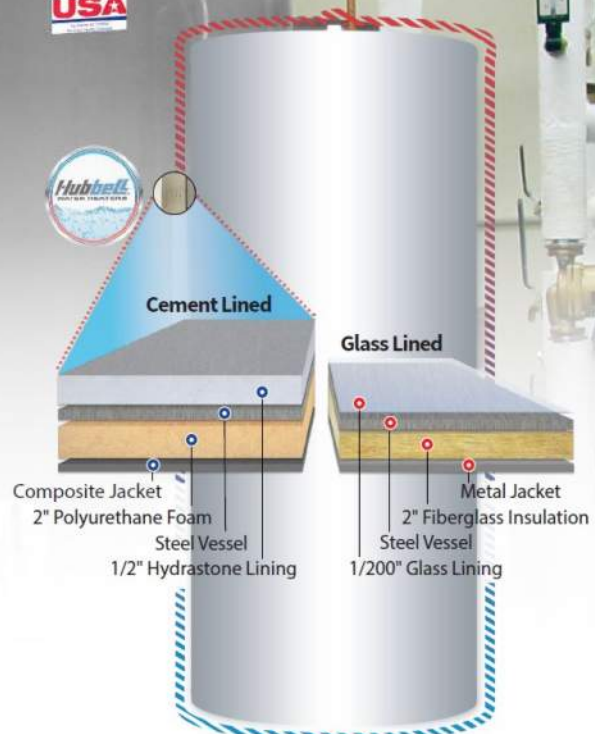
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Chuck Swope, PE, CPD, LEED AP BD+C
Vice President—Technical

Technical Report

Welcome to the final newsletter of the season, but not our last meeting! (More on that later) It's hard to believe that we've spent whole year apart, but we've made it. Last month we hosted a new (to me) technology for water filtration presented by Patrick Verwys from Triple Clear Water Solutions, Inc. brought to us by Mark Smullen and our friends from STH. Thank you Patrick and Mark for being a valued resource for new and established technologies. This month we bring you the very pertinent topic of Engineered Infection Prevention. Over the last year or so, we've all had to become health experts in cleaning and hygiene. Now, Tiffany Hergett and David Frankin from Tom Weaver Associates have brought Allan Prinsloo from Franke to help educate us further. Allan will help us understand the problems faced by healthcare due to hospital acquired infections, as well as technologies to reduce them. Technologies like UV Disinfection, copper touch surfaces, ozone disinfection, and hand hygiene sinks all contribute to reducing the pathogens that make us sick. If you're not sure how any of that would help, this is a great opportunity to learn more.

Allan Prinsloo is the business development manager of the eastern US market for Franke Commercial Systems. Allan has 20 years' experience in the commercial sector having worked for manufacturing companies in the motor, plumbing/building materials and textile industries. Born in South Africa and studied at the University of Reading in the U.K - he now lives in Miami/Fort Lauderdale, Florida and continues to build relationships in the engineering community.

Please note that this is not our last meeting of the season! We have a special lunch presentation coming on June 17 via a joint meeting with the Philadelphia ASPE chapter. The presentation will be on Fire Sprinkler Protection of Rack Storage, which is always a challenging topic. Stay tuned, don't touch that dial!

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



Collaborative Health Care Design

Part I: Plumbing Health Care Design

There is more than one way to 'plumb' it.

January 9, 2017

[John Gregory](#)

When it comes to plumbing healthcare design, there are many methods and ideas on how to 'plumb' it. When designing a plumbing system for a brand-new hospital or a renovation, for example, plumbing designers need to consider what type of system would be best suited for the facility and what will be the most cost-effective for the client. Will it be expensive to renovate? Will it continue to perform as it was designed? Will a shutdown of the system affect a large area?

I am going to focus on two types of systems that plumbing designers should consider in this two-part series. The first system is the medical gas system: What are the upfront costs versus the renovation costs associated with each of your medical gas designs?

Imagine a renovation project for which you have to renovate a surgical suite or a radiology department, for example, and what it would take to make that renovation run smoother.

A simple and relatively minor expense you should consider and impress upon the owner that they should have are in-line service valves. Often, an owner will elect to reduce the amount of valves installed in order to reduce the overall project costs. These valves (when placed correctly) can save you downtime and money later when it's time to do a renovation. If you elect not to install them now, there is a chance that the installation costs will double, or even triple, when you do want to shut down the area to renovate.

Back to our imaginary surgical suite renovation project ... A new ICU wing has been created in another location within the facility and the patients have been moved. The architect has decided to reconfigure the entire former ICU wing to accommodate the new PACU. This will require you to visit the project site to verify how the system is configured. You will need to make sure that the pipes are the same size as they are on the as-built drawings; as-built documents are rarely accurate.

In the meantime, you find out there are no service valves between the floor control valve by the riser and the first or suite zone valve box. As you collaborate with the facility's medical gas consultant or verifier, you also learn that the NICU is adjacent to the new PACU and is fed from this line. The verifier tells you that it will need to be backfed in order to install the valve.

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

Those in-line service valves on the branch lines and mains serving this area would have certainly been worth the expense back when this area was originally installed. It initially would have only required the cost of the valves and the installation. Now, years later, we are faced with a shutdown of the medical gasses for the area — only we can't. In order to do the work, we have to go back farther within the system to shutdown a much larger area. In order to shutdown the area, we need to bring in medical gas bottles to backfeed all of the areas we don't want to go down. As you can see, the dollars are starting to add up quickly with bottled gases, personnel and the revenue potentially lost.

To install these valves, it will require the installing contractor to obtain burn permits from facilities in order to braze fittings and valves. Another alternative to suggest to the owner is to use a pre-loaded or axially swaged fitting to join the ends of the new valve to the existing piping. This will save time and money on smaller pipe sizes less than one and a half inches.

This approach removes the need to braze or purge, but it still requires you to backfeed an area. The fittings can be expensive, but the time frame is minimal. However, you still need to be prepared to braze if something goes wrong with the fitting or tools (plan for extra fittings).

Another important piece to this running smoothly is a highly qualified and competent installing contractor. Having an experienced competent contractor on the team can save you time and money in the long run.

The more you field-verify (hand over hand) the existing piping and talk to facility personnel, third-party verifiers, inspectors, contractors, and medical gas consultants, you will have a better understanding of the best approach for doing a medical gas renovation within a hospital setting. Communication and research go a long way toward saving the client money.

Part two of this series will cover the waste and vent systems within a health care project.

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

Part II: Plumbing Health Care Design

The ins and outs of designing waste and vent systems require collaboration.

February 6, 2017

John Gregory

When it comes to plumbing health care design, there are many methods on how to “plumb” it. The first of this two-part series covered medical gas systems. In this second part of the series, I am covering waste and vent systems, which in itself is a rather large subject to address here.

When designing health care waste and vent systems, the long-term use of the system and ease of maintenance should be considered. Designers should keep in mind that the building will probably be renovated some time down the road, which will impact the location of the waste and vent stacks.

As for the location of the stacks, it is a good design practice to keep the stacks adjacent to stairwells, elevator cores and restroom core groups since these areas are less likely to be moved during the life of the building. Place the stacks at every other column or two to help keep pipe sizes down. There will also be less congestion in the ceiling spaces, which allow other disciplines to route their systems such as ductwork, cable trays and even pneumatic tubing. Ceiling space is considered a precious commodity in the industry, and if you can keep a waste and vent line from running too far, the sloped pipe will not rise or fall very much within that space. This will allow other trades to pass with fewer conflicts.

When deciding which type of waste and vent system to use in a new facility, plumbing designers may be required to design several of the following systems:

- Laboratory/Bio Safety Lab (BSL) waste
- Grease waste
- Laundry waste
- Dialysis waste

There may be a need for a commercial kitchen, for example. The plumbing designer should collaborate with the architect when he/she is placing the kitchen in the building. The kitchen should be located as close to the exterior of the building as possible. In fact, the ideal location is near a loading dock or receiving department. Placing the kitchen here allows for items to be delivered and stored with little impact to public corridors.

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

Another benefit of this location is that it allows for grease waste from the kitchen to remain in a suspended state to the grease interceptor.

If the grease waste line is routed too far from the grease trap, it runs the risk of the grease coagulating in the piping and causing blockages. There are ways to handle grease waste if the kitchen is located deep inside the building, however. They include installing an automatic grease waste removal system, which skims the grease off the water and collects it in a 50-gallon drum so it can be transported through the building. Another factor to consider is the placement of the interceptor so there is sufficient airflow.

An additional important area within a health care facility is the laboratory. Depending on the size of the facility, it may have its own laboratory to do routine tests on patients. In some larger facilities, you may find a bio safety lab (BSL).

There are four levels of BSLs to be aware of. BSL-1 through BSL-4 requires varying degrees of protection for personnel, the environment and the community. Below are brief descriptions of what these may look like:

BSL-1 tends to be low-risk for microbes. Its purpose is typically for research or testing being done on bench tops with no use of special containment equipment. It isn't required to be isolated from surrounding departments.

BSL-2 deals with human pathogens and infectious organisms that pose moderate health risks. Personal Protective Equipment (PPE) is required, as well as a biological safety cabinet.

BSL-3 works with microbes that are either indigenous or exotic, and cause serious potentially lethal diseases if inhaled. The work done is controlled and registered with the appropriate government agencies. PPE may also require a respirator. All work with microbes is required to be performed within an appropriate biosafety cabinet.

BSL-4 is rare, and may be located in a separate building or a restricted zone within a building.

For more detailed BSL suite design requirements, you will want to refer to the NIH Design Requirements Manual. Lab waste, for example, may require neutralization and special piping material. These topics are covered in more detail in the ASPE Plumbing Engineering Design Handbook, Volume 2, Chapter 12.

When it comes to the overall waste and vent system throughout a facility, there are a few ways to tackle the piping of the waste and vent systems.

I tend to lean toward a dependable tried and true conventional waste and vent system that is considered the most flexible for the life of the building it serves. There are a couple of names for this type of system: A continuous vent or a common vent.

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Simply put, a continuous or common vent system is one that provides a vent for each fixture. This system is considered the most expensive approach but does provide positive protection of all the trap seals, and is considered to be the most flexible. This approach helps eliminate potential odors in a building since it prevents traps from being syphoned due to poor air movement.

A continuous venting system is the easiest to design and modify over time. Although the most expensive type to install, cost-effectiveness can come into play later on during a renovation.

There are many designers who prefer hybrid types of systems. These hybrids typically consist of a continuous vent system and a circuit venting application. Using a circuit vent system throughout the entire building reduces the upfront cost, but it does have restrictions that may or may not be acceptable for the life of the building.

My opinion is that a hybrid approach is more appropriate for smaller, two-story buildings, but not large, multi-story buildings. In closing, I want to encourage plumbing designers to design waste and vent systems carefully in collaboration with architects and other trades.

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



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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. Between April 11th and May 5th, the ICC hosted virtual Code Action Hearings (CAH) for Group A codes,

- International Plumbing Code
- International Fuel Gas Code
- International Mechanical Code
- International Fire Code
- International Swimming Pool and Spa Code
- International Residential Code (sections on Plumbing and Mechanical)
- International Building Code (sections on General, Egress Fire Safety, and Structural)
- International Performance Code
- International Property Maintenance Code
- International Private Sewage Disposal Code
- International Wildlife Urban Interface
- International Zoning Code

The actions for all proposed changes can be found on the ICC website,

<https://www.iccsafe.org/wp-content/uploads/2021-Committee-Action-for-Mag-Group-A.pdf>

Public Comment Hearings will be held September 22 – 29, 2021.

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

Just because summer is coming doesn't mean there aren't opportunities from ASPE to earn CEUs. Visit <https://education.aspe.org/> to complete free Read, Learn, Earn articles.

Regards,

Chris Imhof, PE, CPD
Vice President – Legislative
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Nikita Patel, EIT, MBA
AYP Liaison



AYP Report

AYP is busy working on new opportunities for us young professionals to enjoy later this year. I look forward to sharing them with you upon our return next fall, with (hopefully) a few more in-person engagements thrown in.

Thanks,
Niki



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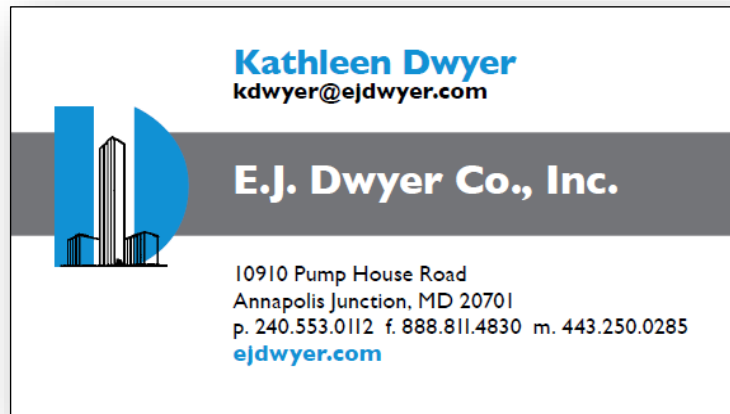
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Treasurer

Treasury Report

We had so much fun at the outing! We missed all you non-golfers who were unable to attend. Please remember next year we do have “jobs” available for you besides actually trying to hit that little ball! I am happy to report that my threesome had the highest score on the field! We had one player who was striking the ball for the first time ever so I feel like we did pretty well!

We are considering meeting again at the Olive Grove starting in September. Do you have thoughts on this? If you are interested in sharing your opinion, please feel free to call me 443-250-0285 or email me at kdwyer@ejdwyer.com with your thoughts and comments. I would love to hear from you before our summer board meeting if possible.

Thanks,
Kathy



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Brian Crisp, CPD
Vice President - Membership

Membership Report

Hello again folks! Hope everyone is staying happy and healthy. A reminder to you all that ASPE Connect is a great resource for ASPE members. I have asked a couple questions myself over the passed couple weeks and the amount of feedback you get is amazing. Don't forget about this!

<https://connect.aspe.org/home>

Let's congratulate our new members who joined our prestigious chapter in April/May! Please join me in welcoming them to our chapter, with a digital-cheers or shout-out during the next meeting.

Craig Parks - BKM

Patrick Burke - BKM

Just a reminder, if your membership lapses (for financial reasons or otherwise), but 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.

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



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Mechanical/Electrical Engineering



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Mechanical/Electrical Engineering



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: STH

Topic: Electroadsorptive Water Treatment Technology

Date: **May 26th, 2021**

Speaker: Allan Prinsloo -Franke

Topic: Engineered Infection Prevention

Date: **June 17, 2021**

Speaker: Joint Meeting / Philadelphia

Topic: Fire Sprinkler Protection of Rack Storage



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