

**Cleveland Chapter of The American Society of Plumbing Engineers
May 2019**

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From the President:



I would like to thank Brian Soderholm with Water Control Corporation for being our guest speaker at the April Technical Meeting on the topic; Legionella and Pathogen Control.

I would also like to thank our April table top presenters; Kim Metzger with Disney McLane and Chris Stackhouse with Rep Source.

Election Day is May 8, 2019! If you are interested in becoming an ASPE Cleveland Chapter Officer, please let us know so that your name can be added to the ballot!

The May Technical Session will be on the topic; Introduction to ASME Boiler and Pressure Vessel code, presented by Isaac Wilson with A.O. Smith.

The May 8, 2019 Dinner Meeting will be held at Harry's Steakhouse located at 5664 Old Brecksville Road, Independence, Ohio 44131.

5:00 – 5:30 Chapter Board Meeting
5:30 – 6:00 Sign-In / Meet and Greet / Vendor Product Displays
6:00 – 6:30 Dinner
6:30 – 7:30 Presentation
7:30 – 8:00 Vendor Product Displays

Please RSVP by May 3, 2019 with Kevin Noble at knoble@sbmce.com. Registration is required. Dinner price is \$26 per person.

Let us know if there are any specific topics or field trips you would like to see our chapter sponsor. We are always looking for new ideas. Remember, without membership and participation, there is no local chapter.

John A. Varga, P.E.
President, ASPE Cleveland Chapter

**2018-2019 ASPE Meeting/Plumbing Class Schedule
May 2019**

<u>Date – Time – Place</u>	<u>Agenda</u>	<u>Speaker</u>	<u>Exhibitors</u>
September 12, 2018 – 6:00 PM Cleveland Yachting Club	Clam Bake Topic – Social Event ASPE Cleveland Chapter	N/A	N/A
October 10, 2018 – 6:00 PM Harry's Steakhouse Cost: \$26.00	Topic – Air Compressor Sizing, Selection, and Accessories	Scott Springli of Gardner Denver	Gardner Denver
November 14, 2018 – 11:30 AM Oatey Company * Complimentary Lunch for attendees provided by Oatey	Topic – Oatey Company Tour	Adrien Scherer Technical Sales Specialist	N/A
December 12, 2018 – 11:30 AM Harry's Steakhouse Cost: \$26.00	Topic – Axial / Lateral Pipe Movement and Expansion Fittings	Arlene Chase Hyspan Precision Products	Mastroianni
January 9, 2019 – 11:30 AM Crown Plaza Hotel in Independence Cost: \$26.00	Topic – System Fluids	Craig Hausman Lochinvar	Campbell Equipment Culligan
February 13, 2019 – 11:30 AM Harry's Steakhouse Cost: \$26.00	Topic – The (un) Ethical Engineer : A Study in Principle and Practice This is a joint meeting with ASHRAE	Devin Abellon Uponor	A big thank to all of our gracious vendors on their support of this very successful event!
March 13, 2019 – 5:30 PM Lubrizol * Complimentary Dinner for attendees provided by Lubrizol	Topic – Lubrizol R&D Tour	Rob Janowiak, Market Manager North America Commercial Plumbing	N/A
April 10, 2019 – 6:00 PM Harry's Steakhouse Cost: \$26.00	Topic – Legionella & Pathogen Control	Water Control Corporation	Disney McLane Rep Source LLC.
May 8, 2019 – 6:00 PM Harry's Steakhouse Cost: \$26.00	Topic – Introduction to ASME Boiler and Pressure Vessel Code Chapter Board Elections	Isaac Wilson A.O. Smith Corporation	Libb Company

**2018-2019 ASPE Meeting/Plumbing Class Schedule
May 2019**

The above is the meeting/plumbing class schedule for the 2018-2019 ASPE year. Updated information will appear in subsequent newsletter issues. All meetings will be at Harry's Steakhouse, 5664 Old Brecksville Road, Independence unless otherwise indicated. The meeting/plumbing class, including dinner, is \$26.00. Reservations are required. A mini product show will be held before each meeting/plumbing class highlighting some of the materials discussed in class or products that will assist the engineer in understanding what they are designing or specifying. All plumbing classes will qualify for 0.1CEU hours and will assist in preparation for the ASPE CPD examination.

The following times will be enforced as strictly as possible.

Make your reservations a minimum of two days before the meeting/class and try to be on time.

Evening Seminars:

- Chapter Board Meeting 5:00 - 5:30 pm
- Sign-in / Meet and Greet / Vendor Product Displays 5:00 - 6:00 pm
- Dinner 6:00 - 6:30 pm
- Presentation 6:30 - 6:45 pm
- Vendor Product Displays 6:45 - 7:45 pm

Lunchtime Seminars:

- Mini Product Show 11:30 - 11:45 am
- Sign-In / Meet and Greet / Vendor Product Displays 11:45 - 12:00 pm
- Lunch 12:00 - 12:30 pm (Seminar to begin during lunch)
- Presentation 12:00 - 1:00pm



golf outing



THURSDAY, AUG. 1st

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For additional sponsorship details contact:
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(216) 904-6656

Registration deadline is July 10, 2019

Please mail this form & check to: ASPE Cleveland Chapter, C/O Frank Mastroianni Jr., Mastroianni & Associates Inc., 7601 First Place Dr., Suite A-13, Cleveland, Ohio 44146. Questions or to email this registration form contact: **Frank Mastroianni Jr.** at frankjr@mastroiannihvac.com or 440-786-1100

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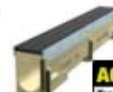
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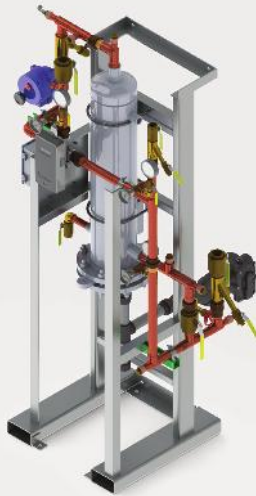
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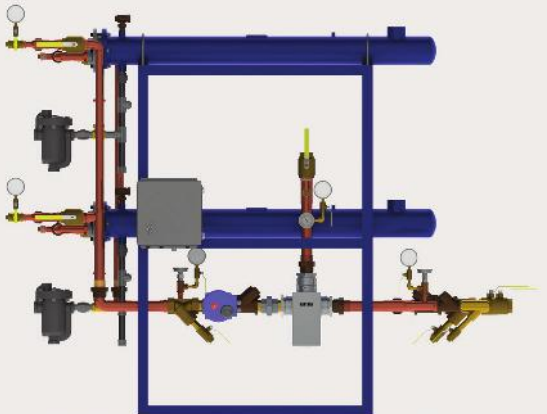
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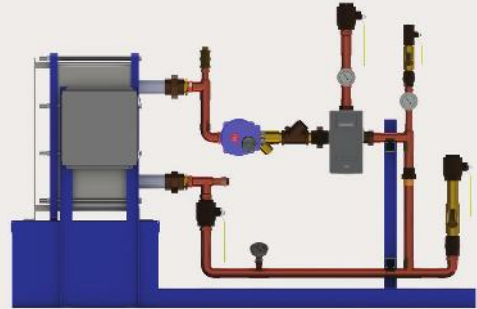
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Who's been on the Lean kick lately? Is it just me who has been motivated to do my part in cutting costs in the design and construction industry?

Our EMC meeting last month was very informative and thought provoking and I can't wait to share my Young Professional thoughts with you! We took a deep dive into *Lean Construction* – the methods and magic behind productivity and cost reduction in the construction industry. Here are the main takeaway's I gained from our discussion's with Mark Lamberson and Jeff Creighton.

A buzzing construction site is a productive one – NOT.

I wanted to start with this one because it was so relatable to what I have seen while onsite. The premise behind this thought talks about people moving about on a job site and how a 'busy and buzzing vibe' is actually not an efficient job site at all.

It was mentioned that we want people at their work station, providing value added work. Makes sense.

I remember being at my second ever site visit while Commissioning in downtown Detroit. It was WILD and my first thought was "Wow, these people are synchronized and productive." There were people running everywhere (even on stilts like a circus!) with tools and material getting moved around in every direction. Now that I think about it, people were simply moving about the building and not necessarily providing value added tasks. Probably myself included... 😊

What can designers implement in their drawings to increase productivity?

I really liked this idea that links design work, such as drawings, details and specs, to productivity on the construction site.

Now, I see it every day when working with construction teams. Discussions that could be wiped away with a single drawing note. I don't think debates and dialogue amongst contractors is a bad thing but most of the things I've seen relates back to – "Well what does it say on the drawings?" – "It doesn't."

One thought I had relates to calculations and I'm not talking about spoiling your top-secret sauce to the firm next door. When I was doing pipe sizing calculations, I remember hand sketching

the flow required at each Air Terminal Unit. There were 300+ boxes so it was crucial that I got each box correctly sized and labeled for the 'grand GPM summation'. Turns out, contractors need that information too. So does testing and balance. So does the commissioning agent. Lots of people spend lots of time redoing work that has already been done by the engineer or designer so how do we go about showing this once and having everyone else reference it?

Yes, the debate continues of course. How much information is too much? What if three Air Terminal Units get updated, I have to remember where all this information is on the drawings so everything gets updated together, holistically. Well, I think that's the task for our BIM managers out there. The computational team that craves to bring productivity to the design teams and their processes. Or maybe I should keep on dreaming?

Schedules, to be or not to be? That is the question.

Lean Construction emphasizes that project schedules do not work and they're not necessarily good for coordination. The discussions that need to happen instead should revolve around the "Last Planner System". In short, this system looks at the project from the last task that needs to happen in order to turn the building over. What is that task reliant on? Floors being finished? Cable tray being installed? And it works backwards from there. It's a great idea to get everyone in the same room to hash out the big picture ideas. Then you can build the project timeline from there. What I think could be important is making sure decisions are also considered during this process. What approvals from the owners or inspectors is required to move forward or purchase given products?

Alright, I had a little too much fun thinking about Lean Construction but I hope it got you thinking too! Always looking for further discussions.

Kari Rosteck

AYP Liaison

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Region 2 Affiliate Report

HITS Conference 2019 Buffalo, NY

ASPE Region 2 colleagues, I've mentioned the HITS Conference to you in previous articles. It is now time to expand on what HITS is and how our Region needs to be involved and attend.

HITS is an acronym for Healthcare Infection Transmission Systems. The HITS Consortium is a 501(c) (3) tax-exempt organization. HITS takes a holistic perspective to targeting healthcare associated infections by addressing the different pathways of pathogen transmission to achieve overall "hospital health". The conference theme is **Catalyst for Change**. Ask yourself, do you as an engineer design plumbing systems for healthcare? Do you as a manufacturer make plumbing products to be installed in healthcare environments?

The conference will take place August 6-8 at the Buffalo Grand Hotel, 120 Church St., Buffalo, NY 14202. Register for the conference and book your hotel stay at www.hitsconsortium.org. This is right in the heart of our Buffalo-Niagara Chapter and within an easy drive for members of our Rochester, Greater Toronto, Johnstown, Pittsburgh, Cleveland, Central Ohio and Eastern Michigan Chapters.

Four Pillars of Healthcare Infection Transmission

Our profession has a motto; Prevention Rather Than Cure. In healthcare, there are four main pillars of infection transmission or HAIs (Healthcare-Associated Infections). These categories are hand hygiene, surfaces, air and water transmission. I know everyone reading this right now either deals in the design of plumbing and/or HVAC systems on a daily basis.

Schedule

The schedule actually starts one-day earlier on August 5th with a **FREE** 8-hour Infection Control Risk Assessment (ICRA) Training session presented by the Eastern District of the United Brotherhood of

Carpenters and Joiners of America. Lunch and refreshments will be provided. If you have not taken this course, then you owe it to yourself and your profession to do so. I myself took this course in 2017.

A Pre-Show Mixer will follow the training session. There is a strong possibility that adult beverages will be served. Keep in mind, the conference takes place in the hotel so you only have to get back to your room safely and set your alarm for breakfast and Opening Remarks. Following will be the featured speaker Sanjay Saint, MD, MPH, Chief of Medicine at the VA MI Healthcare System in Ann Arbor and the George Dock Professor of Internal Medicine at the University of Michigan.

Throughout the conference you will learn how infections are transmitted via the lack of proper hand hygiene, improper cleaning **AND** disinfection of surfaces, and more. Learn about dry-biofilms (this might scare you!) on materials within a patient room. Listen to ASPE Society AYP Liaison Christoph Lohr, PE, CPD, LEED AP BD+C, ASSE 6020 present on his passion for *Legionella* risk mitigation. I guarantee you ASHRAE Distinguished Lecturer Kishor Khankari, Ph.D will knock your socks off explaining how implementing CFD (Computational Fluid Dynamics) and how the airflow in operating rooms or patient rooms can be modeled to minimize airborne infections.

I have to put a plug in for the Water Transmission Task Group. I'm honored to say I am a co-leader of this group. My counterpart, Jana Summey with Watts Water will give a short presentation of our groups' goal to describe the ideal patient room in terms of design, materials, and flow (patient, staff, and visitor) in regards to reducing the risk of waterborne pathogens with particular focus on domestic hot and cold water systems, fixtures, drainage, filtration and disinfection.

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If you've taken the time to read this article and are interested in attending, please reach out to me for a discount code prior to registering.

Dann Holmes – ASPE Region 2 Affiliate Liaison

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