



Chicago ASPENEWS



Chicago Regional Chapter of the American Society of Plumbing Engineers
Vol. 54, No. 7 March 2023



ILLINOIS PHCC EXPO NORTH

Friday, March 17, 2023

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Chicago ASPENews



2022-2023 ASPE Chicago Meeting Schedule

Date	Technical Presentation & Manufacturer Spotlight	CEU	Location
Thursday, September 08, 2022	Presentation: Copper: Essential Element of Sustainable and Resilient Design Speaker: Harold Moret - Copper Development Association Mfr Spotlight: Bradford White Water Heaters Speaker: Phil Traynor of HSA	0.1	Venuti's 2251 W. Lake Street Addison, IL 60101
September 16-21, 2022	ASPE Convention & Expo		Indianapolis, IN
Thursday, October 20, 2022	Presentation: Smarter, Safer Hot Water: Digital Thermostatic Mixing Stations Speaker: Todd McCurdy - Watts Mfr Spotlight: Watts Speaker: Jason Romano of MCM & Todd McCurdy of Watts	0.1	Noon Whistle Brewing Co 800 E Roosevelt Road Lombard, IL 60148
Thursday, November 17, 2022	Presentation: HUD / FHA Requirements for Multi-Family Buildings Speaker: Todd Spurlin - American Bath Group Mfr Spotlight: American Bath Group Speaker: KC Akalaonu - American Bath Group	0.1	Westwood Tavern & Tap 1385 N. Meacham Rd. Schaumburg, IL 60173
Thursday, December 08, 2022	Booster Night Holiday Party & Casino Night	N/A	Noon Whistle Brewing Co 800 E Roosevelt Road Lombard, IL 60148
Thursday, December 15, 2022	Presentation: Not All Alloys Are Created Equal Speaker: Lauren Berenato & Zach Fromm of Jomar Valve	0.1	Virtual Meeting 12:00 pm to 1:00 pm
Thursday, January 19, 2023	Presentation: How YOU Can Make an Impact with Codes and Standards Speaker: Julius Ballanco Mfr Spotlight: Merit Brass Company Speaker: Nathan Buss	0.1	Moretti's Ristorante 6727 N Olmsted Ave Chicago, IL 60631 (Edison Park)
Thursday, February 02, 2023	Presentation: Corrosion Management for Fire Sprinkler Systems Speaker: Bill Aaron of Engineered Corrosion Solutions	0.1	Virtual Meeting 12:00 pm to 1:00 pm
Thursday, February 16, 2023	Presentation: Safety First! Specifying Emergency Showers & Eyewashes Speaker: Jonny Pingry of Guardian Equip Mfr Spotlight: Guardian Recessed Laboratory Combination Eyewash/ Showers and ASSE 1071 TMV Speaker: Jonny Pingry - Guardian Equipment *Factory Tour* @ 4:40 pm (Engineers/Designers Only)	0.1	Guardian Equipment 1140 N North Branch Street Chicago, IL 60642
Friday, March 17, 2023	ASPE Chicago Product Show and Technical Seminars Co-located with ILPHCC Drury Lane Conference Center, Oakbrook Terrace, Illinois	0.4	Drury Lane Conference Center, 100 Drury Lane, Oakbrook Terrace, Illinois, 60181
Thursday, April 20, 2023	Presentation: Selecting the Correct Fixture Carrier and Design Considerations Speaker: Phil Traynor & Derek Vaughn of HSA Mfr Spotlight: Kohler Commercial Products Speaker: Michelle Bernardi	0.1	Westwood Tavern & Tap 1385 N. Meacham Rd. Schaumburg, IL 60173
Thursday, May 18, 2023	Presentation: Plumbing Installation Demonstrations Speaker: Frank Borkowski No Manufacturer Spotlight - Board Elections & Extended Demonstration Time	0.125	Plumbers Local 130 Training Center 1400 W Washington Blvd Chicago, IL 60607
Friday, June 16, 2023	Stephen Triphahn Memorial ASPE Chicago Golf Outing	N/A	Makray Memorial Golf Club 1010 S. Northwest Hwy. Barrington, IL 60010

If you would like to present any of these topics or become a meeting sponsor, please contact Chris Rohan at aspe.chicago.vptech@gmail.com.



PRESIDENT'S MESSAGE

Greetings ASPE Chicago! We had a great meeting at Guardian Equipment albeit with a little mid-season snow to add to the commute.

ASPE Chicago Product Show

This month the ASPE Chicago Product Show will be returning to Oakbrook Terrace. We are joining forces with the Illinois PHCC again. The Illinois PHCC EXPO North will be held on Friday, March 17, 2023, at the Drury Lane Conference Center – 100 Drury Lane, Oakbrook Terrace, IL 60181. We will have 4 hours of continuing education classes with the EXPO Trade show to follow. Please come by and check it out. All education and expo sessions are free. Lunch will be available for purchase but breakfast and the after show dinner will be free. There will be door prizes like last year. We will have tickets for you to fill out and winners will be drawn after the show to allow you time to visit the manufacturer's booths. Door prizes are for engineers/designers who are ASPE members in good standing.

If you are an Affiliate member who has not joined up with PHCC and want to participate, please reach out to our team for further details. All manufacturer registrations are handled through the PHCC website.

Scott Jagodzinski - ASPE.Chicago.President@gmail.com

ASPE Chicago & Feed My Starving Children:

Also, this month March we will be having our World Plumbing Day volunteer event @ Feed My Starving Children in Schaumburg on Friday, March 10. We are continuing our efforts to increase our charitable contributions!

Last year we had 22 members show up to make food packets. This year we have 42 members who signed up early!! For those of you that signed up early you will be given a t-shirt. For anyone that is still interested in joining us you can still sign up by going directly to the Feed My Starving Children Website and register. There are still spots available. <https://www.fmssc.org/get-involved/volunteer>. If you register on their site please note we will not be able to provide a t-shirt (sorry!).

The timeslot we have reserved is 9:00 AM to 10:45 AM. All volunteers are required to come at least 15 minutes early for check in, but I request everyone to come at least 30 minutes early so I can pass out your shirts.

ASPE Board Elections:

Coming up in May will be our ASPE Chicago Board Elections. As a reminder, all Board positions are available to any active ASPE Chicago member, with the exception of President. We do require that the presidential role be filled by someone who has served in the position of VP Technical first. All other electable positions will be available in May. Would you be interested in serving on the ASPE Chicago Chapter Board? Please reach out to me or any other board member to have your name added to the ballot.

Our current Chicago Board roles and the Board roles they will be running for in May are as follows:

Chapter Officer	Current Board Positions	2023-2025 Candidates
Scott Jagodzinski	President	Chris Rohan
Chris Rohan	VP Technical	Justin Wroblewski
Chris Winnie	VP Legislative	Chris Winnie
Justin Wroblewski	VP Membership	Phil Traynor
Darren Rich	VP Affiliate	Darren Rich
Jason Romano	Treasurer	Lindsey Lehman
Phil Traynor	Administrative Secretary	
Eric Cottrell	Corresponding Secretary	Eric Cottrell

Continued on Page 4

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PRESIDENT'S MESSAGE, CONTINUED...

Chapter Officer	Current Board Positions	2023-2025 Candidates
Appointed Positions		*Will be appointed by next president
Lauren Barraza	Golf Chairman	
Rob Thomm	AYP Liaison	
Judy Torres	WOA Liaison	
Jeff Gallagher	Newsletter/Webmaster	
Mark Mannarelli	Education Chairman	
Eric Cottrell	Social Media Chair	

As you can see, we have a few OPEN positions. VP Membership and Treasurer are vacant and looking to be filled.

Are you looking to get your CPD?

ASPE is hosting a virtual 3-part class to assist you in prepping for the CPD exam. The Class will be held from 10 am to 3 pm on Mar 25. The cost will be \$300 for ASPE Members and \$500 for non-members. Earning your CPD is the only current program out there that recognizes your expertise in the field of plumbing design. The next exam dates for 2023 are April 10-21. Please follow this link for more information and registration. https://www.aspe.org/pipeline/get-ready-for-the-2023-cpd-exam-with-aspes-online-review-classes/?_zs=wHwia&_zl=87bN3

A Celebration of Design: (Now Accepting Submissions)

Chicago Chapter Members are truly special, and I think we should celebrate our work. Not only celebrate it but show it off to our membership. I want to see what cool projects the Chicago Membership has done. I want you to show me what makes you excited about Plumbing, Fire Protection, Med Gas, or any other amazing subject our industry asks you to design. Here is what I want you to do:

Send me an email with the following items filled out. (ASPE.Chicago.President@gmail.com)

Engineer/Designer Name: _____
Engineer/Designer Company: _____
Years in the Industry: _____
Project Name: _____
Project Location: _____
What Makes this Project Cool to you: _____

Include 2-4 photos/images that show off your work

This can be anything that you thought was cool about what you accomplished. It can be your first time doing a design, it can be a complex project that you were excited to work on, it can be a cool piping system that you got to see built that you designed. Big or small, I want to see it all. Experienced or just starting out, I want to hear from everyone.

We would like to show off both an experienced engineer/designer and a newly learning engineer/designer's work in each newsletter. But until we get submissions to fill in the newsletter the Chicago Board will be providing their work.

Let us show off why Chicago Engineers/Designers are the best in the industry!

Continued on Page 5

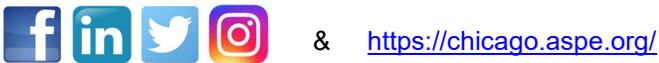
PRESIDENT'S MESSAGE, CONTINUED...

ASPE Connect:

Have you contributed to ASPE Connect at all? Do you have questions that you want some professional guidance on, whether it is a design approach, a type of fixture or general questions about engineering? ASPE Connect membership is active and engaging. So, if you have not yet signed in, please go check it out. The information inside is vital, and the membership is eager to assist anyone looking for guidance, answers, or just to share some information. Better yet it's free for all ASPE members. Click on this link for access. <https://connect.aspe.org/home>

ASPE Chicago gets Social!:

Did you know that ASPE Chicago is also available via social media? You can follow us on the following accounts:



While you are connecting to ASPE Chicago, please also follow ASPE National here:

<https://www.linkedin.com/company/american-society-of-plumbing-engineers/>

<https://www.facebook.com/AmericanSocietyofPlumbingEngineers/>

https://www.instagram.com/aspe_org/

<https://twitter.com/ASPEorg>

Thanks!

Scott Jagodzinski, GPD, CPD

Chicago Chapter President

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Upcoming ASPE Young Professionals Event!

BATL Axe Throwing!



Event will include...

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Drinks and pizza provided by our event sponsor

Where: BATL Axe Throwing – 4842 W Irving Park Rd, Chicago, IL 60641

When: Wednesday, April 5th at 5:30 PM

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VICE PRESIDENT, TECHNICAL: TECHNICALLY SPEAKING

Greetings Chicago Chapter!

We all knew we were going to pay for this relatively uneventful winter! As of this writing, Mother Nature looks like she has at least one more big winter gift for us as we enter meteorological spring! Let's just hope the winter weather is long gone before we appropriately celebrate plumbing on St. Patty's Day at the co-located ASPE Chicago / ILPHCC Expo in Oakbrook Terrace! We have some great technical presentations lined up again this year along with improving the overall experience after some lessons learned from our first co-located Expo last year.

Thank you to all those that made it out last month during yet another winter weather event for a February meeting! Despite the weather, we still had a pretty decent turnout for the factory tours of Water Saver and Guardian Equipment prior to our general meeting hosted at Guardian Equipment. It was pretty cool to see the impressive automation systems involved in the faucet production at Water Saver. A huge thanks goes out to Jonny Pingry and all those involved at Water Saver and Guardian for hosting our Chapter!

Thank you to Water Saver and Guardian for co-sponsoring the cocktail hour and to Guardian Equipment for participating in our Manufacturer Spotlight. Lastly, I would like to once again thank Jonny Pingry for his presentation on Safety First! Specifying Emergency Showers & Eyewashes. The presentation was full of great information and generated some good discussion at the end. Below are some key takeaways from the presentation:

- Emergency devices are required to be tested weekly, but often are not.
- When sizing tepid water capacity for multiple emergency fixtures, there is no requirement to assume all fixtures will operate simultaneously. The likelihood of simultaneous usage is based on a risk analysis for a given project application and should be discussed with the client.
- The standard that establishes minimum performance and use requirements for emergency fixtures, ANSI Z358.1, was originally adopted in 1981 and was most recently revised in 2014.
- The ANSI standard requires emergency equipment to be installed within 10 seconds walking time from the location of a hazard, which has been established as approximately 55 feet.
- Where there is a presence of highly corrosive chemicals, ANSI states that an appropriate professional be contacted for advice on proper distances.
- If a shut-off valve is provided upstream of a piece of emergency equipment to facility maintenance, provisions must be made to prevent unauthorized closure of the valve.
- A floor drain should be provided near emergency equipment, however, depending on the hazardous materials being used, special provision may be necessary, including connecting of the drain piping to an acid waste neutralizer or disposal system.

If you are interested in viewing the slides from the presentation, please follow this link https://drive.google.com/file/d/1DEMjsRrA-MGMiPMk-cZjupv63bobEqcN/view?usp=share_link

Co-located ILPHCC / ASPE Expo Technical Sessions

On Friday, March 17, 2023, the Chicago Chapter will be hosting an Expo along with the ILPHCC. You will be able to earn up to 4 CEU's if you attend the Technical Sessions that will occur between 915am-2pm. I think we have a great lineup of topics and presenters. If you plan on attending the Expo, we please ask that you register in advance to assist with planning for food and beverage and help speed up the sign-in process. You may register for the Expo here <https://forms.gle/sUZ8kZrWsCEwEDMH8>. Please see the Technical Session line-up, descriptions, and speaker bios below:

- **9:15 – 10:15 AM: *Submersible Pump System Design* – Presented by Jeff St. Onge of Hart, Travers, and Associates**
- **10:30 – 11:30 AM: *Plumbing System Venting Basics per the Illinois Plumbing Code* – Presented by George Swietczak, CPD of Dynamic Plumbing Corporation and an Illinois Plumbing Inspector.**
- **11:30 – 11:50 AM: Lunch Break**
- **11:50 AM – 12:50 PM: *Commercial Heat Pump Water Heaters* – Presented by Dan Rettig of Lochinvar**
- **1:00 – 2:00 PM: *Water Savings with Every Flush: Improving Water Conservation in High Performance Buildings* – Presented by Rob McRaney of Niagara Corporation**

Continued on page 10



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VICE PRESIDENT, TECHNICAL: TECHNICALLY SPEAKING

Course Descriptions:

Submersible Pump System Design

This course will cover fundamentals and features of submersible pump systems as well as the keys to designing and selecting submersible pump systems and accessory equipment to fit numerous applications. Topics will include recommended maintenance practices, system start up procedures, electrical coordination, pump system operation, monitoring, and controls.

Plumbing System Venting Basics per the Illinois Plumbing Code

This session will outline code requirements that govern materials, design, construction, and installation of plumbing waste and vent systems in the State of Illinois, including common mistakes and misunderstandings.

Commercial Heat Pump Water Heaters

This session will discuss the basics of heat pump water heating systems, including refrigeration components and cycle, differences between air source and water source heat pumps. Additional discussion will include piping strategies, sizing exercises, and design considerations when using heat pump systems in colder climates such as Chicago.

Water Savings with Every Flush: Improving Water Conservation in High Performance Buildings

Today as climate change, population growth, and record droughts present an unprecedented strain on our water supply – conservation technology is building awareness to the importance of having the most water-efficient fixtures in a home or business. This course recognizes the flush toilet as one of the biggest users of water and discusses how toilet design is pushing flush technology to develop ways for homes and commercial buildings to conserve water without sacrificing the performance of the toilet. Industry testing protocols and the water-saving capabilities of different technologies are evaluated.

Speaker Bios:

Jeff St. Onge



Jeff “Cobra” St. Onge is currently the Director of Commercial Sales & Engineering for Hart, Travers & Associates. Jeff graduated from Western Michigan University (Go Broncos!) in 1998 with a bachelor’s degree in Engineering Graphics and Design Technology. After graduating from WMU, Jeff worked as a plumbing engineer for 8 years designing plumbing and fire protection systems for Metro Design and WT Engineering. Jeff continued his quest for knowledge by attending several ASPE engineering courses at Harold Washington College in Chicago. Jeff decided to change gears and joined “the dark side” by transitioning to a plumbing manufacturer’s sales rep for Hart, Travers, and Associates in 2006, the local Zoeller Pump Co representative for over 65 years. Jeff specializes in submersible pump systems including sizing & selection, troubleshooting, training, and system start-ups. Jeff has been a proud ASPE

Chicago Chapter member for close to 25 years!

George Swietczak



George has been working in the plumbing industry for over 50 years. He started working summers at plumbing shops starting in 1965 and earned his Chicago plumbing license in 1971. George is long time ASPE member, Certified in Plumbing Design, is a certified Illinois Plumbing Inspector and Cross Connection Device Inspector and teaches programs for apprentice training. He is founder and president of Dynamic Plumbing Corporation, Dynamic Plumbing Enterprises, LLC, and Illinois Plumbing Code Education. George is also President Emeritus of the Illinois Plumbing Inspectors’ Association Charter Chapter, having served for 2-terms.

Continued on page 11

VICE PRESIDENT, TECHNICAL: TECHNICALLY SPEAKING

Dan Rettig



Dan earned a Bachelor of Science from Middle Tennessee State University with studies focused on Mechanical Engineering Technology 9 years after obtaining his Associate of Applied Science degree with a major in Heating, Ventilation, Air Conditioning, and Refrigeration. His career began on the residential application side of the HVAC industry, and he steadily moved into more complex systems including commercial buildings with electronic controls and multiple zones. Dan gained over 10 years of field experience with installation and troubleshooting of HVAC equipment before taking a “desk job” to answer technical service calls and provide phone support to outside contractors for Lochinvar’s commercial products. Dan is now the Senior Product Manager for emerging technologies which includes responsibilities for heat pump water heaters.

Rob McRaney



Rob McRaney is Niagara’s East Business Development Manager. Founded in 1977, Niagara is leading the water revolution by saving the world’s water through everyday ingenuity without sacrificing performance. Rob, who studied Architecture at Mississippi State University, has been working in the Green Building Sustainability world for over three years, but has vast amounts of experience with LEED, NGBS, EarthCraft, Green Globes, and other Green Building certifications. Rob came to work with Niagara as they are one of the first toilet manufacturers to re-engineer the flush for a high-power, low-maintenance, no-waste toilet with Stealth Technology that saves customers money by reducing water while maintaining high performance.

Technical Presentation Evaluations

Your participation in the evaluations is very important to us to help plan for future meetings and presentations. We offer multiple ways to participate, including sending out an eblast to attendees that morning after the meeting that includes a link to the evaluation form.

We will continue our effort to eliminate the use of paper evaluation forms and ask that you scan the QR Codes located on tables at our monthly meetings. If you require a paper evaluation form, they will be available at the sign-in table.

You can scan the adjacent code by either using your smartphone camera, which will automatically detect the code (depending on the age of your phone), or by using a QR Code scanner app on your phone. The QR Code will take you to a Google Form to fill out an evaluation.

If you have an idea for a technical presentation you want to see, or you have a great technical session you want to present, please reach out to me and we can look to get you or your topic on the list for the Expo or for the meeting season next year. We are also looking to lock in Manufacturer Spotlights and Cocktail Hour sponsors as well if you have interest.

Stay safe and I hope to see you this month at the Expo!!

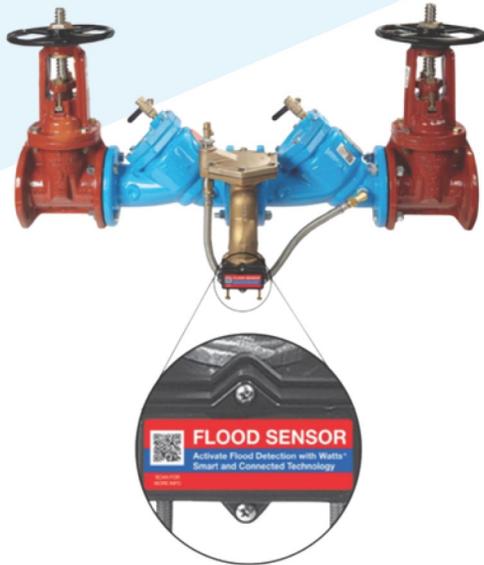
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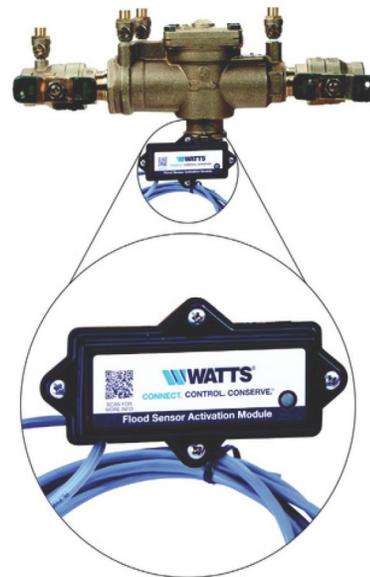
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VICE PRESIDENT, LEGISLATIVE

Greetings Chicago Chapter Members!

Today I'd like to run a couple hot water return questions I've been asked over the years, those experienced with pump sizing will be familiar and know this so I do apologize if this is known to you. But for some who haven't had the experience, hopefully this serves as a starting point for understanding a couple of nuances.

Four design aspects for hot water recirculation I want to share:

$$Q = \frac{q}{500 \times \Delta T}$$

1. Did you know the recirculation pump's pump head is based on friction and device loss, and the elevation change is of zero concern as you factor into the pump selection. (Sorry to those sales reps that sell pumps! P.S. I am not actually sorry).

As engineers, we should know if the city's water pressure is too low to supply water everywhere then we need to provide a house booster pump. In respect to the domestic cold water, water is supplied to fixtures, but there is no return water typically so the house booster is sized to overcome the elevation change between the hydrant the flow test was performed and the fixture at the highest elevation with the greatest pressure requirement.

But the recirculating pump for hot water is different.

Circulating hot water is moved throughout the building by a pump that is not the house pump, right? The flowrate for this recirculating pump is a lot less, maybe near 10 gallons per minute. "Worst case" is when all sinks/showers are unused, so the amount of water flowing out of the pump and up to the highest level will equal the amount of water flowing down from the highest level to the inlet of the recirculating pump. The mass flowing in either direction offsets and so the pump can be sized to overcome pressure merely from pipe friction, valves and fittings.

P.S. Yes, I am aware the recirculation line will be carrying water that is more dense than the water in the supply line, so technically the pump will need to overcome pressure from this difference in mass density if the heat exchanger and recirculation pump are in the penthouse rather than the basement. But this difference is negligible for most buildings.

2. Did you know per the latest energy code, it's expected that pumps will be off during unoccupied hours?

Yep, it's true. Pumps in all building occupancies other than healthcare shall be turned off during unoccupied hours, and it's good practice to have an aquastat near your recirculation pump to de-energize the pump to meet code. Below is the excerpt from 2021 IECC being discussed.

C404.6 Heated-water circulating and temperature maintenance systems.

Heated-water circulation systems shall be in accordance with Section C404.6.1. Heat trace temperature maintenance systems shall be in accordance with Section C404.6.2. Controls for hot water storage shall be in accordance with Section C404.6.3. Automatic controls, temperature sensors and pumps shall be in a location with access. Manual controls shall be in a location with ready access.

C404.6.1 Circulation systems.

Heated-water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermos-syphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is not a demand for hot water. The controls shall limit the temperature of the water entering the cold water piping to not greater than 104 deg. F (40 deg. C).

Continued on next page

VICE PRESIDENT, LEGISLATIVE, CONTINUED...

3. If you ever have a building taller than 100', great care should be taken into how you decide your pressure zones and how the recirculation is addressed. Pressure reducing valves (PRV) complicate anything and everything – question everything or your project's performance will suffer during Construction Administration. My advice...try to use as few PRVs as possible, but to also have redundancy in case a PRV fails, you'll want water supplied to the building when the valve inevitably fails over the life of the building.

What do you think? I'd love to have a discussion about any or all of these opinions, I'm here to learn and to share what I'm learning.

If you have questions, or want to discuss, feel free to reach out to me at aspe.chicago.vpl@gmail.com. Also if you have any topics of design ideas that you're aware of but might not be explicitly obvious, please share and I can include in a future newsletter!

City of Chicago Updates:

To stay up to date on the happenings of the City Council and Committees, you can find the regularly updated calendar here <https://chicago.legistar.com/Calendar.aspx>

International Code Council – 2027 Codes:

The process of updating the International Building Codes for the 2027 edition will open in September of this year. If you have any changes you want to make to any of the International Codes, get ready to submit. Thank you to Julius Ballanco for sharing the process he uses to submit code changes in the January meeting!

State of Illinois Updates:

There has been no action related to the State of Illinois Plumbing Code. Additionally, there are no scheduled Illinois Plumbing Code Advisory Council Meetings. If that changes, I will let you know. To keep up on scheduled IDPH Events, the regularly updated calendar can be found here: <http://www.dph.illinois.gov/event>

Please reach out to me if you have any code questions, code updates, ideas for topics of discussion, or you are looking for any interpretations and I will try and include pertinent information in future newsletters.

Thanks!

Chris Winnie

Chicago Chapter Vice President, Legislative
ASPE.Chicago.VPL@gmail.com



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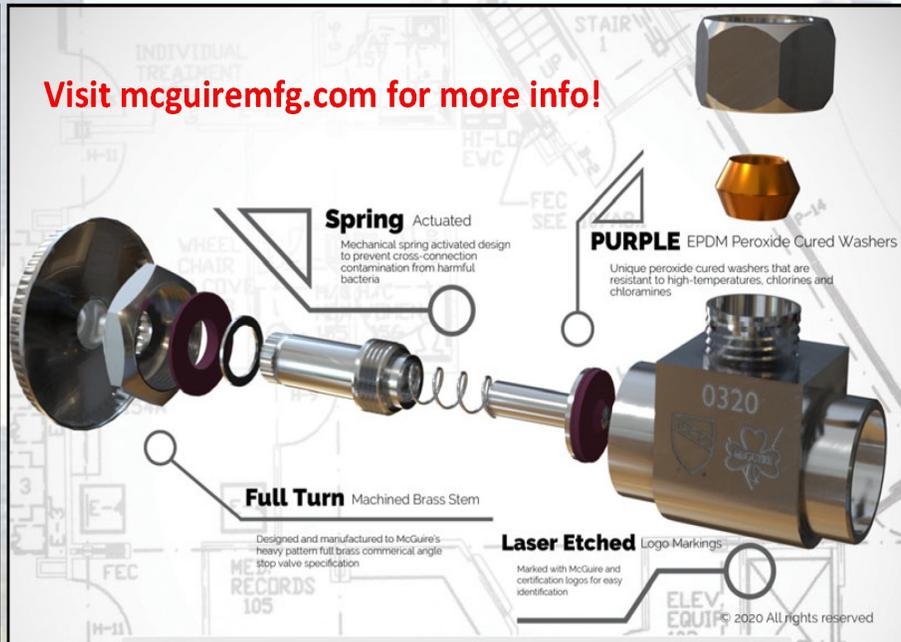
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VICE PRESIDENT, MEMBERSHIP / AMBASSADOR

Greetings,

Our current membership numbers are climbing. We currently have 277 members in the Chicago chapter. If you know of a member that is currently struggling paying dues, please reach out to me. ASPE does offer a compassion wavier which can help in times of need. I look forward to seeing everyone at the Product show – March 17th!

Our newest members to join our chapter are;

- Edward Locke - Solo Werks
- Rick LaMar - Aalberts-IPS
- Daniel DeLonjay - Aalberts-IPS
- Keith O'Higgins P.E., LEEP AP - O'Higgins and Arnold Sustainability
- James Richardson - Fluid Technologies Pumps & Controls
- Ishtiaq Syed - Wight & Co

Please welcome them to the chapter!

For those looking to obtain your CPD here are some practice questions for you to answer. Answers will be given the following month, or if you'd like them sooner please reach out to me.

4. For a high school, the size of a storage type water heater supplying 8 showers, 3 break room sinks, 6 lavatories and one mop sink will most nearly be:

- a. 591 gallons
- b. 1,182 gallons
- c. 788 gallons
- d. 1,970 gallons

5. How much heat is required to raise the temperature of 12 cubic feet of water from 50 degree average temperature to 140 degrees Fahrenheit?

- a. 67,290 BTU
- b. 19.7 BTU
- c. 21.9 BTU
- d. 74,770 BTU

6. A tank 4 feet in diameter at the ends holds 400 gallons. How tall is the tank to the nearest inch?

- a. 5'11"
- b. 6'6"
- c. 4'3"
- d. 12'0"

Last Months Answers : B, C, D

Stay Healthy,

Justin Wroblewski, CPDT

Chicago Chapter Vice President, Membership / Ambassador

ASPE.Chicago.VPM@gmail.com / aspe.chicago.ambassador@gmail.com / Jwroblewski@ams-pmt.com



VICE PRESIDENT, AFFILIATE

Greetings Chicago ASPE!

Warmer Weather is teasing us and we are a few days away from more daylight! Soon we get to enjoy springtime in Chicago which signals the start of some great ASPE events.

Just a couple weeks away is the Chicago ASPE / ILPHCC Product show. So many of you have come out for monthly meetings and I hope we have a real strong showing at the product show. What a great way to get caught up to speed on new technologies, Rep Line changes, network with industry professionals, attend continuing education classes, and see some friends.

Also coming up is the April Meeting at Westwood in Schaumburg, the May Meeting at the Plumbers Union Hall with installation demonstrations and the Stephen Triphahn Memorial ASPE Chicago Golf Outing in June.

It's been an amazing ASPE year.. let's keep the momentum going! Keep showing up, bring new people!

As usual, remember Affiliate members, I am your voice to the ASPE board, let me know if you have any questions, concerns, ideas, etc...I will be happy to bring them to the board for discussion.

I look forward to seeing everyone soon!

Darren Rich

Chicago Chapter Vice President, Affiliate

P# 224.833.6023 aspe.chicago.vpaff@gmail.com



ADMINISTRATIVE SECRETARY

Hello ASPE Chicago,

Happy March 2023 ASPE Chicago. We getting ever closer to spring and projects have continued to come around as we get closer to the brunt of construction season. The board is excited to see every-one at this years ASPE Product show that is co-located with the Illinois PHCC again this year at Drury Lane.

Congratulations to the following winners at last month's meeting!:

- **Justin Martin - REPCO free dinner**
- **Chris Rohan - The Engineering Studio, Inc - 50/50 - \$130**
- **Sunondo Roy - BW Design Group- Door Prize Winner**

Please be sure to acknowledge all of your dedicated rep firms that support ASPE year in and year out.

Sincerely,

Phil Traynor, HSA

Chicago Chapter Administrative Secretary

aspe.chicago.admsec@gmail.com

ORDER YOUR ASPE CHICAGO BADGE!

Are you tired of being the only one at the meeting without a fancy ASPE Chicago name badge? Do you want to update your badge so it has your new name or company?

The Chicago Chapter is proud to offer once again our badge promotion!



Costs:

Badges: \$15
Shipping (optional): \$5

Make checks payable to "ASPE Chicago Chapter" and either drop off your check at one of the Chapter Meetings or mail it to:

**ASPE Chicago Chapter
c/o Mark Mannarelli/Syska Hennessy Group
330 N. Wabash Ave, Ste. 1505
Chicago, IL 60611**

Name and Company will be printed on the badge as listed below - if you leave blanks or list other names, they WILL be printed on the badge. If you would like your badge mailed to you, please include this information. You can mail or email this form. Badge order will not be processed until payment is received. Send emails to mannarelligm@gmail.com

Please indicate your preferences:

Name: _____
Company: _____

Fastener style (please circle one):

- Clip
- Magnet

This promotion is for ASPE Chicago members only!



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Please contact Darren Rich for more information

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CORRESPONDING SECRETARY: INDUSTRY NEWS

I think we've finally made it to SPRING!! I don't know about you but I'm ready for it!!! Hope you all enjoyed Guardian last month from what I saw it was really cool and that was a great presentation. LOOKING FORWARD TO SEEING YOU ALL AT THE STATE SHOW THIS MONTH!!!! I can't believe that it's already here!!!!

I would also like to mention that ASPE Chicago is on Social Media! Please feel free to send over pictures you have of some jobs you are working on, and pictures from any other ASPE events you may have at

ASPE.chicago.social@gmail.com

Follow us on:



Please see below a number of different opportunities around our community that would benefit those of you who chose to invest your time.

American Society of Sanitary Engineering (ASSE)

Mid-Year Meeting

Date: April 4-6 2023

Location: Chicago Plumbers Local 130

INFO: <https://asse-plumbing.org/asse/midyear>

Illinois Rural Water Association

No Upcoming Events Published

<https://www.ilrwa.org/>

American Institute of Architects (AIA)

Eastern Illinois Chapter

March Student Round Table + Roofing Presentation

Date: March 29th, 2023

Time: 4:30pm to 8:30pm

Location: Heroes West Joliet, 1530 Commerce Ln, Joliet, IL 60431

INFO: <https://aiaaic.org/meetinginfo.php>

National Rural Water Association (NRWA)

No Events in Chicagoland Area

https://nrwa.org/annual_events/

American Water Works Association Illinois Section

Find all up coming events here (there are multiple events)

https://www.isawwa.org/events/event_list.asp

Illinois Chapter of ASHRAE

2023 Spring Conference

Date: May 11th, 2023

Time: 8:00am to 5:30pm

Location: UBS Tower, One N. Wacker Dr., 2nd Floor, Chicago, IL 60606

INFO: https://illinoisashrae.org/meetinginfo.php?p_or_f=f

Illinois Association of Plumbing-Heating-Cooling Contractors (ILPHCC)

Illinois PHCC EXPO North

Date: March 17th, 2023

Location: Drury Lane Conference Center, 100 Drury Lane, Oakbrook Terrace, Illinois, 60181

INFO: <https://www.ilphcc.com/expo>

National Fire Protection Association (NFPA)

Event List: <https://www.nfpa.org/Events>

Society of Fire Protection Engineers (SFPE)

No meetings/events scheduled at this time

If there are any other organizations that you would like to stay current on, please send me an email and they will be added to the list for our next newsletter.

Eric Cottrell, Mid-Continent Marketing

Chicago Chapter Corresponding Secretary

aspe.chicago.cspsec@gmail.com