



# Chicago ASPENews



Chicago Regional Chapter of the American Society of Plumbing Engineers  
Vol. 55, No. 3  
November 2023



## Chicago Chapter General Meeting Thursday, November 16, 2023



### Noon Whistle Brewing

800 E Roosevelt Rd.  
Lombard, IL 60148



### Toys for Tots Month!

Bring a new, unwrapped toy to donate!!



### AGENDA

- 5:30-6:30 pm **Cocktail Hour Sponsored by:** 
- 6:30 pm **Dinner** (\$45 for ASPE Members \$70 Non-Members). **RSVPs must be received by 6:00 PM on Monday, November 13th** (RSVPs received after this time will be charged a \$5 late fee).
- 7:15 pm **Manufacturer Spotlight:** *LAARS Commercial Solutions by John Brody with LAARS*
- 7:30-8:30 pm **Main Presentation:** *Commercial Heat Pump Water Heaters by John Brody with LAARS (0.1 CEUs Available!)*

Please RSVP on the [Chicago.aspe.org](http://Chicago.aspe.org) website in lieu of calling or emailing, thank you for your cooperation!

### MENU:

#### Appetizers:

- Double Dip Platter
- Pretzel Bite Platter
- Cocktail Meatball Platter

#### Dinner:

Taco Bar – Ale Braised Beef and Vegan Chorizo

Pickled Cabbage or Lettuce for Salads, Pico de Gallo, Roasted Salsa, Oaxacan Cheese, Sour Cream, Corn & Flour Tortillas or Tortilla Bowl for Salads, Tortilla Chips, Black Bean & Rice Salad.

#### Dessert:

- TBD

#### Drinks:

- TBD



# Chicago ASPENews



## 2023-2024 ASPE Chicago Meeting Schedule

Date	Technical Presentation & Manufacturer Spotlight	CEU	Location
Thursday, September 21, 2023	<b>Presentation: 13 Pitfalls of Heat Pump Water Heaters</b> Speaker: Robert Svidron  <b>Mfr Spotlight: Intellihot Tankless Water Heaters</b> Speaker: Robert Svidron	0.1	Church Street Brewing 1480 Industrial Dr, Unit C, Itasca, IL 60143
September 28 - October 1, 2023	<b>ASPE Technical Symposium</b>  <b>CLICK TO REGISTER: <a href="https://www.aspe.org/2023-tech-symposium/">https://www.aspe.org/2023-tech-symposium/</a></b>		Bellevue, WA
Thursday, October 19, 2023	<b>Presentation: Smart Restrooms for Smart Cities</b> Speaker: Gordon Tai - TOTO  <b>Mfr Spotlight: TOTO Eco Products</b> Speaker: Gordon Tai - TOTO	0.1	Westwood Tavern & Tap 1385 N. Meacham Rd. Schaumburg, IL 60173
Thursday, November 16, 2023	<b>Presentation: Commerical Heat Pump Water Heaters</b> Speaker: John Brody - LAARS  <b>Mfr Spotlight: LAARS commercial solutions</b> Speaker: John Brody - LAARS	0.1	Noon Whistle Brewing Co 800 E Roosevelt Road Lombard, IL 60148
Thursday, December 07, 2023	<b>Presentation: Mixing and Balancing Valve Selection Considerations: What Are the Key Criteria</b>  Speaker: Kevin Freidt - Caleffi	0.1	<a href="#">Virtual Meeting</a> 12:00 pm to 1:00 pm
Thursday, December 14, 2023	<b>Booster Night Holiday Party &amp; Casino Night</b>	N/A	
Thursday, January 18, 2024	<b>Presentation: CPVC Piping Systems for Plumbing Applications</b> Speaker: Greg Swafford, CPD, GPD, ASSE 12080  <b>Mfr Spotlight: Hycleen Automation System for Centrally Controlled DHW Balancing</b> Speaker: Greg Swafford, CPD, GPD, ASSE 12080	0.1	Venuti's 2251 W. Lake Street Addison, IL 60101
Thursday, February 01, 2024	<b>Presentation: TBD</b> Speaker: TBD	0.1	<a href="#">Virtual Meeting</a> 12:00 pm to 1:00 pm
Thursday, February 15, 2024	<b>Presentation: Guide to Siphonic Drainage</b> Speaker: Brennan Doherty  <b>Mfr Spotlight: TBD</b> Speaker: TBD	0.1	Westwood Tavern & Tap 1385 N. Meacham Rd. Schaumburg, IL 60173
Friday, March 15, 2024	<b>ASPE Chicago Product Show and Technical Seminars Co-located with ILPHCC</b> Drury Lane Conference Center, Oakbrook Terrace, Illinois	0.4	Drury Lane Conference Center, 100 Drury Lane, Oakbrook Terrace, Illinois, 60181
Thursday, April 18, 2024	<b>Presentation: New Innovation in Med Gas Piping</b> Speaker: Mathis Carlson - MediTrac  <b>Mfr Spotlight: TBD</b> Speaker: Mathis Carlson - MediTrac	0.1	Noon Whistle Brewing Co 800 E Roosevelt Road Lombard, IL 60148
Thursday, May 16, 2024	<b>Presentation: Plumbing Installation Demonstrations</b> Speaker: Frank Borkowski  <b>No Manufacturer Spotlight - Extended Demonstration Time</b>	0.125	Plumbers Local 130 Training Center 1400 W Washington Blvd Chicago, IL 60607
Friday, June 14, 2024	<b>Stephen Triphahn Memorial ASPE Chicago Golf Outing</b>	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 Justin Wroblewski at [aspe.chicago.vptech@gmail.com](mailto:aspe.chicago.vptech@gmail.com).



# Manufacturer Spotlight



***This month we would  
like to thank:***



***Thank you for your support!***

Feeling Lucky?? Then you should join us for:

# **The Chicago ASPE Booster Night Holiday Party**

and



Thursday, December 14th | 5:30 to 9:00 p.m.

Noon Whistle Brewing Co.  
800 E. Roosevelt Rd.  
Lombard, IL 60148

The 2023 Chicago ASPE Booster & Casino Night is just around the corner. Don't miss out on the opportunity to win amazing prizes at the black jack, craps, roulette tables and more! There will be other games as well, such as corn hole, pinball, and giant connect four games!

Attention Affiliates: Sponsorship opportunities are still available!  
Please contact Darren Rich for more information: Ph# 224.833.6023  
[aspe.chicago.vpaff@gmail.com](mailto:aspe.chicago.vpaff@gmail.com)

## THE ASPE TECH SYMPOSIUM EXPERIENCE!

I am truly grateful for the Chicago ASPE Chapter in bestowing me an opportunity to attend the 2023 ASPE Tech Symposium in Bellevue, WA. It was the first time I ever attended a National ASPE event. I have been an ASPE member for 4 years and entered the Architect/Engineering/Construction industry a few months after my initial membership. I was looking forward to meeting people in the industry from all over the country and was surprised to meet a member-at-large from Mexico City! In addition to that, learning from the 8 education sessions, which were great to expand upon discussion on crucial topics like improving plumbing design with better codes and design practice.

I signed up for the ASPE Young Professional (AYP) Leadership Academy, which I recommend to any attendee at least once to experience while at a Technical Symposium. The topics covered this year were 'The Positive & Professional Workplace Environment' and 'Behavior Styles & Appreciating Our Differences.' I absolutely enjoyed talking to others about their work experiences/tips and understanding our/others various strengths in a team setting. As much as I enjoyed the AYP Leadership Academy, there wasn't an AYP gathering afterwards, which made it harder to engage with those attendees afterwards due to the packed conference schedule. I hope they bring it back for the next conventions in another way like designating tables in areas for AYP to congregate.

Next, I enjoyed attending the Product show to see some familiar and new Vendors/Manufacturers. It is always refreshing to see other suppliers outside the Midwest region and products that will become relevant with the upcoming code updates. I was able to talk to a local CPD after a talk with a supplier about balancing valves used in Germany. I found out that attendee couldn't attend the remainder of the conference and appreciated the conversation about Seattle projects. I wouldn't have talked to this person if this conference was just education sessions.

I also managed to attend the AYP and WOA committee meetings. Finding out more about what they are trying to accomplish on a national level versus experiences in the local level was insightful. I encourage future attendees to go to any committee meeting and give input as an ASPE member in a non-officer role. It helps the organization get a better idea of needs that may not be addressed outside of their officer meetings.

Overall my favorite part of the conference is seeing and talking to people involved in the plumbing industry from different walks of life, which you can't get from simply attending a webinar/CEU session. Women of ASPE(WOA) had an appetizer and drinks event at Castilla(Spanish Restaurant), which was open to everybody. The Welcome Party was another great event. There was a good mix of people including members of the National/Regional/Local level Boards at both networking events. Every connection made during this conference was worth it.

**Worlynn Ow, EIT**  
*The Engineering Studio*

## THE ASPE TECH SYMPOSIUM EXPERIENCE!

### Aspe Symposium Thoughts:

I enjoyed having a space to meet and get to know other people in a relaxed environment.

### The AYP event:

It was cool to be in a small group with people close to my age and career level. This being my first one, and not knowing what the others are like, I found the topic (emotional intelligence) very interesting and insightful. Being engineers, sometimes I think that emotional intelligence is overlooked or underappreciated, but I think it can be super important. I am not sure if the seminar held value for everyone there, but I took a lot from it, that I will try to think about/utilize in my daily life. I think a lot of what was discussed can be applied not only to work life/relationships but to your personal life as well, if not more so. I found myself often thinking of personal relationships and relating them to the topics. And I don't think that's a bad thing. How do we become great at something? You practice it everyday. So while you might not need these lessons and skills everyday in your work life, if you use them in all aspects of your life, your skills will sharpen at an accelerated pace and will stay relevant and fresh in mind when you need to make use of it. All in all, I learned good ways to deal with the personal aspect of business and I learned about myself in the process. The major take away being how to deliver feedback in a way that will have a positive impact.

### Product show:

The product show is a lot smaller than the conventions. But I think this allows one to focus their attention and learn more about what is there instead of trying to make sure you see everyone and end up not learning as much. This product show allowed me to get more value out of the time I spent.

### Tech Sessions:

I learned a tough lesson after my experience going to the technical sessions, which I plan to avoid moving forward by following this advice: Do your research about the sessions ahead of time before you decide which ones to attend. I looked at the descriptions and titles and decided what would benefit my learning the most and I found out that was not enough research to determine which to attend. Obviously, the best preparation is a thorough search into the topics that interest you ahead of time and determining based on that. If you don't have time to read into the topics deeply, I would suggest at least picking topics that sound diverse. Don't put all your eggs in one basket. Plan to learn a little about a lot of topics instead of trying to learn a lot about one or two. I found that the topics with similar subjects or titles ended up having a lot or complete overlap in content. If you still think you want to learn about the topics at least check who the presenter is. If the presenter is the same for a couple of similar sessions, there may be overlap in content and your time might be better spent attending a different session.

**Andrew Poull**

*C.J. Erickson Plumbing*

## THE ASPE TECH SYMPOSIUM EXPERIENCE!

### Another Successful ASPE Symposium

I wanted to take a moment to express my heartfelt appreciation for the opportunity to participate in the 2023 ASPE Tech Symposium. It was a truly enriching and enlightening experience, and I am grateful for the chance to be a part of this great event. Society's efforts ensured a well-organized and informative event that brought together experts and good friends.

I had the privilege to provide a presentation on **Water Management and Water-borne Bacterial Control Strategies** in conjunction with Libby Ashworth with Garratt-Callahan. We discussed internal risk factors, water safety, regulation and standards, and specific techniques to mitigate those risks. I truly enjoyed the following discussions and questions from the audience.

The discussions, presentations, and shared insights during the symposium were invaluable. It was inspiring to engage with such a knowledgeable and passionate community, and I'm thankful for the collaborative spirit that this event fostered. If you haven't been to an ASPE Tech Symposium or Convention, I strongly recommend you attend. They are extremely informative and allow you to expand your network at an exponential pace. Please, consider volunteering, it is a great way to give back to our noble professional organization.

Thank you once again for this wonderful opportunity, and I eagerly anticipate the prospect of participating in future events.



Frank Sanchez CPD, GPD, ASSE 6060  
fsanchez@syska.com  
Chicago Chapter Super Fan and Past President  
Syska Hennessy Group



## TDH FIRST MEETING RECAP AND ROUND 2

The first meeting of our new group, TDH (Total Dynamic Head), was a success. Held before the October meeting, we were able to find a spot downstairs at Westwood to chat. What we lacked in quantity, we made up for it in quality. Although specifics and personal matters will never leave the group, I can share that we had some great discussion that included prioritization of project work and what to do when everything seems to be a top priority. Just a coincidence, I recently wrote a series of articles in [Pipeline](#) that discusses these very topics. I'll share the links to those articles at the end of this one.

Our main goal for TDH is to get people talking. It's not always as easy as you think. What is bothering you at work? Are you suffering from burnout (or getting there)? Are you struggling with your mental health (or not sure)? Maybe you want to talk about your challenges. Maybe you prefer to just listen until you are comfortable enough to talk. Either way works. We just ask that if anyone in our group shares anything personal or private, it stays in the group.

Please consider joining us at the next ASPE Chicago meeting at Noon Whistle in Lombard. Plan on coming out a little bit early - we'll meet at **5pm in the Barrel Room** before cocktail hour begins. Look for Jason McDonald or Scott Jagodzinski. If you are on the fence and not sure you are ready for this, know that it is not unlike exercise... 90% of the effort is simply getting started.

Now for the links to those Pipeline articles:

- Part 1 - <https://www.aspe.org/pipeline/april-2024-membership-matters-time-management-tips-for-those-who-are-too-busy/>
- Part 2 - <https://www.aspe.org/pipeline/june-2023-membership-matters-im-just-too-busy-part-2-task-prioritization/>
- Part 3 - <https://www.aspe.org/pipeline/july-2023-membership-matters-im-just-too-busy-part-3-what-to-do-when-everything-seems-priority-1/>

Hope to see you November 16 at Noon Whistle!

Jason McDonald  
ASPE Chicago Past President  
[jmcdonald@grummanbutkus.com](mailto:jmcdonald@grummanbutkus.com); 847.316.9258



## PRESIDENT'S MESSAGE

Greetings ASPE Chicago! Oh, the silent majesty of a fall's morn, the clean crisp air, colorful falling leaves, fall sports, and that bad bad man Jack Frost deciding to bring cold air and dump snow on our Halloween fun! Ugh! Hopefully everyone was able to make the best of the conditions, let's just hope the snow stays away for at least another month or so.

Thank you to everyone that turned out for our October meeting at Westwood Tavern, we had less than 50 people in attendance due to a substantial number of no-shows. PLEASE remember to let us know ASAP if you will not be able to attend after you RSVP. The Chapter bears the cost for the no-shows when we are not notified.

A big shout out to TOTO for sponsoring the cocktail hour and participating in the Manufacturer Spotlight, which was presented by Rich Lussier. I would also like to thank Gordon Tai of TOTO for his intriguing technical presentation on *Smart Restrooms for Smart Cities*.

This month we head back to what has become a very popular spot, Noon Whistle Brewing Co in Lombard, IL. This month's technical presentation will be *Commercial Heat Pump Systems Overview* by John Brody of Laars Heating Systems. Heat pump water heaters continue to be a popular topic due to the increasing demand and always changing energy program requirements. Please see Justin Wroblewski's article for more details!

### Chicago Chapter Annual Toys for Tots Collection starts THIS MONTH:

We are continuing our traditional collection of new unwrapped toys for the holiday season. The Marines are scheduled to attend Booster Night in December to collect the toy this year, but as we found out last year, sometimes real life gets in the way, and they are unable to attend in order to deal with more important issues. We always start this collection at our November meeting, so please bring a new toy with you to kick off the season of giving.



### Booster Night / Holiday Party:

EXCITING NEWS for 2023! Thanks to the outstanding support the Chicago Chapter has received over the last few years, we are making Booster Night **FREE** for any MEMBER that RSVP's no later than December 1<sup>st</sup>, for our party on December 14<sup>th</sup> at Noon Whistle Brewing Co in Lombard, IL! After December 1<sup>st</sup>, there will be an entry fee.

Just like last year, there will be plenty of great prizes, casino games, pinball, giant Connect 4, Golden Tee, etc!

Affiliates, we still need your sponsorship support, so please be on the lookout for eblasts from our VP Affiliate, Darren Rich, [aspe.chicago.vpaff@gmail.com](mailto:aspe.chicago.vpaff@gmail.com)

### Chicago Chapter Membership Drive:

Are you ready to help the Chicago Chapter get over 300 Members and stay ahead of Boston and Dallas/ Fort Worth? We now have incentives for both Affiliates and Engineers!

# Membership Drive

#### Affiliates:

Last month, we introduced a **FREE** newsletter advertising incentive for Affiliates in exchange for helping increase our membership numbers. If you get just one (1) new member registration, you will get one (1) FREE Full-Page ad in our newsletter (\$200 value). If you sign up more, you will get more months of FREE advertising.

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<http://chicago.aspe.org/>



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**NEW MEMBER** = **FREE ADVERTISING!**

### **ASPE CHICAGO AFFILIATES!!!**

How long have you been enjoying the perks,  
the networking, the fun of being a part of the  
Chicago ASPE Family?

Now is your chance to share what you already know  
with others, and its simple!

**Bring on a new ASPE Member - Get A Full Page Ad  
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**Bring on 6 new ASPE Members - Get a Full Page Ad  
for 6 months - Plus Get 3 Additional Months Free!**

*For all details, see your VP Affiliate, Darren Rich's Article in this monthly newsletter!*

*Any questions regarding this can be directed to Darren Rich - VP Affiliate*

Darren Rich 224-833-6023 - darren@fanddsales.com - aspe.chicago.vpaff@gmail.com

## **PRESIDENT'S MESSAGE, CONTINUED...**

To keep track of new member registrations, Affiliates will need to self-report to our VP Affiliate, Darren Rich, [aspe.chicago.vpaff@gmail.com](mailto:aspe.chicago.vpaff@gmail.com). For more information, please see Darren's article!

### **Engineers:**

This month, we are introducing an incentive for Engineers! For each new member registration, Engineers will receive a **FREE** Dinner, Twenty (20) 50/50 Enhanced Raffle Tickets, and the Engineer with the most new member registrations will receive a **FREE** ASPE Membership for 1-year. Engineers will need to self-report new member registrations by emailing me at [aspe.chicago.president@gmail.com](mailto:aspe.chicago.president@gmail.com).

### **TDH (Total Dynamic Head)**

Are you feeling overwhelmed, stressed at work, burned out? Do you want to talk about it? Come check out a new informal support group we are trying out to help members cope with their problems. Join Jason McDonald and Scott Jagodzinski and hopefully others at 5pm in the Barrel Room at Noon Whistle before the next meeting.

### **ASPE MedGas Workshop:**

If you missed the in-person ASPE MedGas Workshop held this November in the Dallas/Ft. Worth area, don't worry! NEW this year, the MedGas Workshop is also available online, which is taught by Chicago Chapter Member, Mathis Carlson! This class fulfills the training requirements for the new ASSE 6060: Medical Gas Systems Designer professional certification. This certification has been voted to be included as a requirement for medical gas systems designers in future editions of NFPA 99. [CLICK HERE](#) for more information.



### **Alfred Steele, PE Scholarship:**

Each year, Society awards up to \$5,000 in scholarship monies to qualified applicants. The applicants are limited to ASPE members and their immediate family members. The scholarships are for members who plan to attend a college, university, or technical school on a full-time basis and enrolled in an engineering program. Applications must be received by January 31, 2024. There are very few applicants each year (16 last year, 3 awarded), so take advantage of this great ASPE Member benefit! [CLICK HERE](#) for more information.

### **ASPE Chicago gets Social!**

Did you know that ASPE Chicago is also available via social media? Be sure to tag ASPE Chicago in your posts to help generate more views using the following social media 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://www.instagram.com/aspe_org/)

<https://twitter.com/ASPEorg>

Thanks!

**Chris Rohan, CPD**

*Chicago Chapter President*

[aspe.chicago.president@gmail.com](mailto:aspe.chicago.president@gmail.com)



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630-953-1211



## **VICE PRESIDENT, TECHNICAL: TECHNICALLY SPEAKING**

Greetings ASPE Chicago Chapter Members,

I hope you had a great Halloween and enjoyed the few snow showers that we don't deserve this early in the season, but winter seems to be here to stay! It is hard to believe that the busy holiday season is already upon us, but along with that comes exciting new things to look forward to. Back by popular demand we will be back at Noon Whistle for Booster Night! We will be hosting our Toys-4-Tots collection so please bring a toy for a child in need. The donations are greatly appreciated. We are hoping to replicate the attendance trends we have been seeing at our general meetings.

Thank you to LAARS for sponsoring our Cocktail Hour and participating in our Manufacturer Spotlight at our meeting this month!

In November we are switching up the menu and will be testing out Noon Whistle kitchen. Please let us know how you like the food.

**Cocktail Hour Sponsor:** Herkowski, Stickler & Associates

**Manufacturer Spotlight:** LAARS Commercial solutions

**Title of main presentation:** Commercial Heat Pump Water Heating Systems Overview

**Speaker Bio:** John Brody is the Sr. Director of Sales for LAARS Heating Systems. In his role, John is responsible for driving the Sales, Service, and Distribution of LAARS products and solutions.



Before joining LAARS Heating Systems, in 2017, John spent 21 years representing AERCO International, a high efficiency commercial boiler and domestic water heating company, based out of New York, where he was the Director of Sales.

John currently lives in the Chicago suburbs with his wife of 30 years and two sons. He holds a Bachelor of Arts degree in Business Administration and an MBA program at Lewis University in Romeoville, Illinois. John is also an active member of many HVAC and plumbing industry associations including AHRI, AIM/R, ASA, ASPE, and MCAA.

### **2023-2024 Chapter Meetings and Beyond:**

After a pretty good year of success using the QR Code for meeting evaluations, this year we intend to eliminate the use of paper evaluation forms. In addition to the QR code, we will send out an e-blast each Friday to all meeting attendees that will include a link to an evaluation survey. Just like last year, you will be able to scan the QR codes that will be located at each table. 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. Your meeting evaluations are very important in helping us plan for future meetings and presentations. Please take a minute or two to provide your feedback.

Future Special Event Opportunity If you are an Affiliate that has access to mobile product demonstration trailers, please reach out to me at [ASPE.Chicago.VPTech@gmail.com](mailto:ASPE.Chicago.VPTech@gmail.com). We are looking at the possibility of hosting a special outdoor event in the future and I would like to get an idea of what is available and the interest level. 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 an interest.

Stay safe!

**Justin Wroblewski, CPD**

*Chicago Chapter Vice President, Technical*  
[aspe.chicago.vptech@gmail.com](mailto:aspe.chicago.vptech@gmail.com)

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## **VICE PRESIDENT, LEGISLATIVE**

Greetings Chicago Chapter Members!

Did anyone have “Snowfall in October” on their 2023 bingo card? I surely did not!

**Hot off the Press!!!! Wisconsin Administrative Code Changes, the first in 14 years:**

The entire list of Plumbing code changes can be found here: [Business Information \(wi.gov\)](#)

Some of these changes may look familiar for those that have worked in states following the International Codes. It'd be so great if there was only one code for the country to follow, but maybe that'd make our careers too easy?

### **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 [Office of the City Clerk - Meetings \(legistar.com\)](#)

### **International Code Council – 2027 Codes:**

The process of updating the International Building Codes for the 2027 edition has two deadlines. November 1<sup>st</sup> to get the support and backing from national ASPE who have filed code changes before and know how to make the wording be code-like. The final deadline is January 8<sup>th</sup>, but then you'd be on your own without any oversight from ASPE – which means your code change would have less of a chance of making its way through. Thank you to Julius Ballanco for sharing the process he uses to submit code changes during the January 2023 meeting! Here is a link to the procedures and timelines: [https://www.iccsafe.org/wp-content/uploads/2024\\_2026\\_Code-Development-Schedule\\_3\\_17\\_23.pdf](https://www.iccsafe.org/wp-content/uploads/2024_2026_Code-Development-Schedule_3_17_23.pdf)

If you'd like to submit changes with a review first with ASPE's assistance, all proposals WERE required by November 1<sup>st</sup>. Here is a passage from Brianne Hall, VP Legislative Society:

Don't forget about the upcoming code cycles! ASPE's Legislative Committee is accepting changes for the 2027 IPC and UPC code cycles. A [Code Change Submittal form](#) is available to complete your submissions. All proposals must be submitted November 1, 2023 to allow time for review by the Legislative Committee and Board of Directors prior to code body submission deadlines

### **What Does an ASPE Code Change Submittal Look Like?**

I submitted a code change suggestion for ASPE's review. **On the next page** are the 4-pages of my proposed changes. I did not include the excel links for this monthly newsletter, but if you'd be interested in seeing the raw data of what Rational and Manning look like, I'd be more than happy to share. I think anyone sizing storm systems should have the knowledge of understanding where the numbers in the tables from Chapter 11 came from. To trust the sizing tables in Chapter 11 blindly is borderline negligence. Building integrity could be compromised if water does not drain from the roof fast enough. If you're curious or want to discuss openly, please find me at the next ASPE meeting and I'd love to hear your side. I'm familiar enough with Manning coefficients for PVC and cast iron to discuss it over a beer.

### **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.

Please email me at [aspe.chicago.vpl@gmail.com](mailto:aspe.chicago.vpl@gmail.com) with any options you want to learn more about and I'll figure out how to get the content out. Feel free to expand upon the suggestions and/or create your own suggestion!  
Thanks!

### **Chris Winnie**

Chicago Chapter Vice President, Legislative  
[ASPE.Chicago.VPL@gmail.com](mailto:ASPE.Chicago.VPL@gmail.com)

### ASPE Code Change Proposal Submission Form

Complete the following document and submit to [rmata@aspe.org](mailto:rmata@aspe.org)

All submissions will be reviewed by the Legislative Committee and Board of Directors. The submitter will be notified of the decision of ASPE prior to the published deadline of the code developer indicated below.

Submitter Name: Christopher Winnie

Submitter Organization: SmithGroup

Submitter Organization Represented (if any): ASPE Chicago

E-Mail Address: [REDACTED]

Telephone: [REDACTED]

Code (UPC or IPC, if other please specify): IPC 2021

Code Cycle: 2027

Section to be Modified: 1106.2 as shown below in numerous portions.

**1106.2 Size of storm drain piping**

Vertical and horizontal storm drain piping shall be sized based on the flow rate through the roof drain. The flow rate, as calculated in accordance with Section 1106.2.1, shall be checked against the roof drain manufacturer's published flow rate for the specific roof drain model and size to verify that the selected roof drain will handle the anticipated flow. The flow rate in storm drain piping shall not exceed that specified in Table 1106.2.

Premium Code Insights:  Code Change Details  Hearing Videos

TABLE 1106.2 STORM DRAIN PIPE SIZING

PIPE SIZE (inches)	CAPACITY (gpm)				
	VERTICAL DRAIN	SLOPE OF HORIZONTAL DRAIN			
		$\frac{1}{16}$ inch per foot	$\frac{1}{8}$ inch per foot	$\frac{1}{4}$ inch per foot	$\frac{1}{2}$ inch per foot
2	34	15	22	31	44
3	87	39	55	79	111
4	180	81	115	163	231
5	311	117	165	234	331
6	538	243	344	487	689
8	1,117	505	714	1,010	1,429
10	2,050	927	1,311	1,855	2,623
12	3,272	1,480	2,093	2,960	4,187
15	5,543	2,508	3,546	5,016	7,093

For 8" 1 inch x 25.4 mm, 1 foot x 304.8 mm, 1 gallon per minute x 3.785 Lit.

**1106.2.1 Rainfall rate conversion method**

The rainfall rate falling on a roof surface shall be converted to a gallon per minute (L/m) flow rate in accordance with Equation 11-1.

$$GPM = R \times A \times 0.0104$$

(Equation 11-1)

where:

R = Rainfall intensity in inches (mm) per hour.  
A = Roof area in square feet (m<sup>2</sup>).

Current Text (specify year of current code) : 2021

Proposed Revision (Proposed text format use underscore in Red to denote wording to be inserted (wording) and strike-through in Red to denote wording to be deleted (~~wording~~):

1106.2 Size of storm drain piping.

Vertical and horizontal storm drain piping shall be sized based on the flow rate through the roof drain. The flow rate, as calculated in accordance with Section 1106.2.1, shall be checked against the roof drain manufacturer's published flow rate for the specific roof drain model and size to verify that the selected roof drain will handle the anticipated flow. The flow rate in storm drain piping shall not exceed that specified in Table 1106.2.

TABLE 1106.2 STORM DRAIN PIPE SIZING

PIPE SIZE (inches)	CAPACITY (gpm)				
	VERTICAL DRAIN	SLOPE OF HORIZONTAL DRAIN			
		$1/8$ inch per foot	$1/4$ inch per foot	$1/2$ inch per foot	$3/4$ inch per foot
2	34	15	22	31	44
3	87	39	55	79	111
4	180	81	115	163	231
5	311	117	165	234	331
6	538	243	344	487	689
8	1,117	505	714	1,010	1,429
10	2,050	927	1,311	1,855	2,623
12	3,272	1,480	2,093	2,960	4,187
15	5,543	2,508	3,546	5,016	7,093

For SI: 1 inch = 25.4 mm; 1 foot = 304.8 mm; 1 gallon per minute = 3.785 L/min.

- a. The flow rates shown in Table 1106.2 assumes the pipe friction is 0.010 when using the Hazen-Williams coefficient. This is most attributed to the smoothness found in new PVC pipe.
- b. Pipes of a different Hazen-Williams coefficient shall be re-calculated different to the values shown in Table 1106.2 by

The Gauckler–Manning formula states:

$$V = \frac{k}{n} R_h^{2/3} S^{1/2}$$

use of Manning’s Formula.

1106.2.1 Rainfall rate conversion method, The Rational Method.

The rainfall rate falling on a roof surface shall be converted to a gallon per minute (L/m) flow rate in accordance with Equation 11-1, The Rational Method.

$$GPM = C \times R \times A \times 0.0104$$

Where:

- C\* = Discharge Coefficient, *the roughness of the roof’s surface*  
*\* Where 1.0 is used for flat roofs and less than 1.0 for gravel and green roofs*
- R= Rainfall intensity in inches (mm) per hour.
- A = Roof area in square feet (m<sup>2</sup>)

Reasoning:

As engineers, we have an ethical contract to not impose a hazard onto the occupants of the buildings we design. In its current form, the storm piping code imposes a hazard onto the occupants of the buildings we design. If we follow the current storm drain sizing criteria in 1106 and cast iron pipe is used, then the pipes would undersized between 20-50%, pending the size and slope of the installed pipe. Undersizing roof drain pipes increasing the possibility of the primary

drains being overloaded and water ponding on the roof above what the structural engineer assumed. The printed Tables in code are assuming PVC pipe. We must change this code immediately for the safety of the public.

I fully expect the code listing 2 or 3 tables for horizontal pipes of different Hazen-Williams coefficients of pipe friction rather than an example table illustrating flow rates assuming PVC. My attempt above is to get the code changed. Above is the bare minimum, but I certainly can provide the updated values for various Hazen-Williams coefficients. Cast iron, not sure if there is a 3<sup>rd</sup> commonly used pipe material, I use PVC or cast iron personally. If I were to be completely honest in my desires, I would change Table 1106.2 to modify the allowable flow in a 5" PVC pipe to be more accurate, in the provided documents you will see it is off by 20% while the other values are within 1%. I would also add Table 1106.2 (2) listing the flow rates allowed in horizontal cast iron pipe as follows:

Table 1106.2 (1)

PIPE SIZE (inches)	CAPACITY (gpm)				
	VERTICAL DRAIN	SLOPE OF HORIZONTAL DRAIN			
		1/16 inch per ft	1/8 inch per ft	1/4 inch per ft	1/2 inch per ft
2	34	12	17	25	35
3	87	37	50	74	105
4	180	80	110	160	225
5	310	145	205	290	410
6	535	235	330	470	665
8	1,115	505	715	1,015	1,435
10	2,050	920	1,300	1,845	2,605
12	3,270	1,500	2,120	3,000	4,240
15	5,540	2,720	3,845	5,440	7,690

a. Table 1106.2 (1) assumes use of PVC pipe conveying stormwater

Table 1106.2 (2)

PIPE SIZE (inches)	CAPACITY (gpm)				
	VERTICAL DRAIN	SLOPE OF HORIZONTAL DRAIN			
		1/16 inch per ft	1/8 inch per ft	1/4 inch per ft	1/2 inch per ft
2	17	8	11	15	23
3	55	24	35	49	69
4	120	53	75	105	150
5	215	95	135	190	270
6	345	155	220	310	440
8	710	335	475	670	950
10	1,350	610	860	1,220	1,725
12	2,140	990	1,405	1,985	2,810
15	3,985	1,800	2,545	3,600	5,095

b. Table 1106.2 (2) assumes use of cast iron pipe conveying stormwater

## Reference Documents:

Storm Rationale Method\_04-Storm Drainage Calc.xls  
 Manning Formula\_pipe flow and velocities.xlsx  
 Manning Formula\_pipe flow\_coversheet.pdf  
 Manning Formula\_proving code is based on Manning.pdf  
 Manning Formula\_pipe flow\_cast iron.pdf  
 Manning Formula\_pipe flow\_PVC.pdf  
 Storm Rationale Method\_04-Storm Drainage Calc.pdf



# Women of ASPE®

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**VICE PRESIDENT, MEMBERSHIP / AMBASSADOR**

Greetings,

Happy November ASPE Chicago! Hopefully you are all staying warm with our little cold snap as Chicago can't decide what season it wants to be in now!

**We would like to wish a happy 15 year anniversary to Kevin W. Klaum!**

Here is a quick look at how we are as a Chapter compared to our fellow chapter around the US!

Chapter	Total
New York City	369
Chicago	283
Dallas/Ft. Worth	273
Boston	272
Philadelphia	255
Los Angeles	235
Houston	232
Atlanta	200
Wisconsin	157

Happy Birthday to our November born members! We hope each of your days this month is special!

- Scott D. Beckord CPD
- Mark Brickey
- David M Casper
- Mike A. Castellano
- Jeffrey T. Church
- Robert A. Daugherty
- Wesley Day
- Luca Di Matteo
- Mohamed Said El Gammal
- Jason Geller
- Holly Hirsch LEED AP
- Robert B. Huston P.E.
- Sung J. Kwon G.E.
- Kevin Jasper Lamech G.E.
- Morris J. Lieberman
- Ramesh Mirchandani P.E.
- Subhasmita a Mohanty
- Somasundaram Natarajan
- Lewis Ndikumana
- John Pritchard
- Henry Christian Riess Jr.
- Ann Marie Seidl
- Keith William Seier CPD P.E.
- Jodie L. Sherven P.E., CPD
- Josh Stelter
- Michael J. Whiteside
- John A. Young

Thanks,

**Phil Traynor, HSA**

*Chicago Chapter Vice President, Membership / Ambassador*

[ASPE.Chicago.VPM@gmail.com](mailto:ASPE.Chicago.VPM@gmail.com) / [aspe.chicago.ambassador@gmail.com](mailto:aspe.chicago.ambassador@gmail.com)



## **VICE PRESIDENT, AFFILIATE**

Greetings Affiliates and All ASPE Members. I hope everyone had a great October and a nice Halloween despite the winter weather we had on Halloween! With Halloween passing and November here, Cold temperatures & Snow are on the way, not much to look forward to, but Wait! ASPE Chicago's Annual Booster Night is just under 6 weeks away. One of top attended events of the year. A great chance to network, hang out with friends, win a great prize, support TOYS FOR TOTS, we look forward to seeing you!

Booster Night will be held on Thursday December 14th. This year, we are once again having booster night at Noon Whistle Brewing Co in Lombard! Like last year, this will still be Casino Night, but the Noon Whistle has many other games to add to our fun! Sponsorships are what makes Booster Night a successful event, There are many opportunities to sponsor Booster Night! The available sponsorships are as follows:

**General Sponsor—\$150.00** Your company will be listed on a sign thanking all of our sponsors and listed in the ASPE January Newsletter. There are an unlimited number of General Sponsorships Available.

**Game Sponsor—\$400.00** ( Only 8 Available ) This sponsorship includes everything in the General Sponsorship as well as a sign specifically thanking your company next to one of the casino games. This sponsorship is limited to the amount of tables we have will be first come, first served.

**Bar Sponsor—\$400.00** This sponsorship includes everything in the General Sponsorship as well as a sign specifically thanking your company hanging by the bar. At this point, we are not limiting the number of Bar Sponsorships! Drink all you want (But be careful!!!!)

Please let me know as soon as possible if you would be interested in supporting this event at any level. Reps!!!! Please don't only consider doing a sponsorship for your company, but please reach out to your Manufacturers and see if they would also like to take advantage of a sponsorship and thank the engineers that are so important to their success! **Please note that only 1 Company may be listed for each sponsorship.** For your convenience, you can choose and pay for your sponsorships by clicking this link: <https://chicago.aspe.org/2022-Booster-Night-Sponsorship.html>

Have you taken advantage of our Free advertising membership drive? Simply sign up a new member and get free advertising! See information page in this newsletter for more information. As usual, please reach out to me with any questions or comments.

See you all Soon!

### **Darren Rich**

*Chicago Chapter Vice President, Affiliate*

P# 224.833.6023 [aspe.chicago.vpaff@gmail.com](mailto:aspe.chicago.vpaff@gmail.com)



## **ADMINISTRATIVE SECRETARY**

Hello ASPE Chicago,

We had 43 members attend our October meeting where our enhanced 50/50 raffle raised \$213.00 for A Silver Lining Foundation to help provide cost free Breast Health Testing. James Richardson with FTI was our 50/50 winner as well!

RSVP dinner winner was Erik Fridlund with Kohler and our ASPE door prize winner was Chris Sbarbaro with Grumman Butkus! For our November chapter meeting we return to the very popular Noon Whistle Brewing Co in Lombard on Thursday 11/16. The presentation will be on heat pump water heaters.

### **Important Dates for December:**

- *Thursday 12/7/23 Virtual meeting, presentation will be Mixing and Balancing Valve Selection Considerations: What Are the Key Criteria by Kevin Freidt of Caleffi.*
- *Thursday 12/14/23 for our 2023 Booster Night which will also be at Noon Whistle Brewing Co.*

Please make sure to RSVP on time for all events!

Sincerely,

**Chris Swade**

*Chicago Chapter Administrative Secretary*

[aspe.chicago.admsec@gmail.com](mailto:aspe.chicago.admsec@gmail.com)

# ORDER YOUR ASPE CHICAGO BADGE!

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*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](mailto:mannarelligm@gmail.com)*

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**Please contact Darren Rich for more information**

**P# 224-833-6023 / Email: [aspe.chicago.vpaff@gmail.com](mailto:aspe.chicago.vpaff@gmail.com)**



## **CORRESPONDING SECRETARY: INDUSTRY NEWS**

It was great to see everyone at the October meeting. Let's keep the momentum going into the next one! Join us for a night of delicious food, networking, and education at Whistle Noon Brewing Co. on Thursday, November 16th! Don't miss out on this chance to catch up with fellow members and learn something new. And of course, no ASPE event is complete without a charity raffle! Bring cash for your chance to support a worthy cause.

As we kick off this exciting chapter year, we encourage you to connect with us on social media and tag us in your posts! Please share pictures of the projects you're working on and any other ASPE events you attend. You can reach us at [ASPE.chicago.social@gmail.com](mailto:ASPE.chicago.social@gmail.com) or find us on the following platforms:

Follow us on:    

Here are some upcoming events and opportunities that can greatly benefit those of you who invest your time in professional development:

### **American Society of Sanitary Engineering (ASSE)**

- IL ASSE Product Show
  - Date: Tuesday, November 14th, 2023
  - Location: Plumbers Union Local 130, 1400 W Washington Blvd., Chicago, IL 60607
- Link: [IAPMO \(asse-plumbing.org\)](http://IAPMO(asse-plumbing.org))

### **American Institute of Architects (AIA)**

- Eastern Illinois Chapter November Meeting
  - Date: November 29th, 2023
  - Time: 6:00 PM - 9:00 PM
  - Location: Flossmoor Station - 1035 Sterling Ave., Flossmoor, IL. 60422
- Link: [AIA Eastern Illinois Chapter - Meeting/Event Information \(aiaaic.org\)](http://AIA Eastern Illinois Chapter - Meeting/Event Information(aiaaic.org))

### **Illinois Chapter of ASHRAE**

- November Meeting—Thermal Storage/ Alternative Heat Sources
  - Date: November 14th, 2023
  - Time: 5:30 PM – 8:00 PM
  - Location: 200 W. Madison St., 4<sup>th</sup> Floor Amenity Space, Chicago, IL
- Link: [ASHRAE@ Illinois Chapter - Meeting/Event Information \(illinoisashrae.org\)](http://ASHRAE@ Illinois Chapter - Meeting/Event Information(illinoisashrae.org))

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

- PHCC CEU
  - Date: November 10th, 2023
  - Time: 12:00 pm – 4:00 PM
  - Location: Online
- Link: [Home \(ilphcc.com\)](http://Home(ilphcc.com))

### **National Fire Protection Association (NFPA)**

- Chicago NFPA Education Seminar
  - Date: November, 14th, 2023
  - Location: WJE Northbrook, 330 Pfingston Rd, Northbrook, IL 60062
- Link: <https://chicagosfpe.org/meetinginfo.php?id=21&ts=1699284462>

### **Society of Fire Protection Engineers (SFPE)**

- Live Perspective Webinar: Fiber Optic Linear Heat Detection
  - Date: October 19th, 2023
  - Time: 11:00 AM - 12:00 PM (ET)
  - Location: Online
- Link: [View All Virtual Education - SFPE](http://View All Virtual Education - SFPE)

### **Illinois Rural Water Association (ILRWA)**

- Annual Conference
  - Date: February 20-22, 2024
  - Location: Keller Convention Center, Effingham, IL
- Link: <https://www.ilrwa.org/Training/Conference.html>

### **National Rural Water Association (NRWA)**

- Rural Water Rally
  - Date: February 6<sup>th</sup> – 8<sup>th</sup>, 2024
  - Location: Washington, DC.
- Link: [Rural Water Rally | NRWA](http://Rural Water Rally | NRWA)

### **American Water Works Association Illinois Section**

- No Water No Hockey - Chicago Wolves Game
  - Date: November 12th, 2023
  - Time: 3:00PM – 6:00PM
  - Location: Allstate Arena, 6920 Mannheim Rd, Rosemont, IL 60018
- Link: [Illinois Section American Water Works Association \(isawwa.org\)](http://Illinois Section American Water Works Association(isawwa.org))

If you have any questions or need more information, please don't hesitate to reach out to me. Looking forward to a productive year ahead!

### **Erik Fridlund**

Chicago Chapter Corresponding Secretary  
[aspe.chicago.cspsec@gmail.com](mailto:aspe.chicago.cspsec@gmail.com)