

OCT - MEETING AGENDA

DATE:

TUESDAY, OCTOBER 12, 2021

WHERE:

This will be a HYBRID Meeting

**Plumbing Industry
Training Center in Troy, MI**

5:00 PM - 6:00 PM

**Water: Metered Flow vs
Traditional Sizing**

6:00 PM - 6:30 PM

Dinner Break

6:30 PM - 7:30 PM

Utility Incentives

REGISTRATION REQUIRED

VIRTUAL: <https://education.aspe.org/products/eastern-michigan-chapter-meeting-water-metered-flow-vs-traditional-sizing-and-panel-discussion-on-utility-rebates-oct-2021>

IN-PERSON: <https://www.eventbrite.com/e/aspe-emc-october-2021-technical-program-tickets-176778628637>

SEE INSIDE COVER FOR TABLE OF CONTENTS

From Pam Hartsell, CPD, PMP President of ASPE EMC



Happy Fall Eastern Michigan!

The 2021 Technical Symposium was a fantastic event and the EMC showed up in force! In addition to our board members and current members, we had 4 brand new members join us in San Diego. Our numbers were as impressive as the fantastic line-up of educational session we all enjoyed! We also learned that this year saw a record number of attendees, which is no surprise. I think we were all ready to get out, get together and get educated once again. I am so thankful I had the opportunity to be there.

If you saw our LinkedIn post, you also know that we, once again, received the Chapter Award of Merit for the quality of our programs, and we couldn't be prouder! Your Chapter Board is dedicated to bringing you programming that will enhance your skills and your paycheck, so please take advantage of the learning opportunities we offer!

EMC and ASPE Region 2 Affiliate Liaison Dann Holmes and I also received awards for Leadership, Commitment and Performance, and we were both extremely humbled by the honor.

Last month we kicked off the new season with two informative and thought-provoking sessions: Right Sizing Plumbing Systems with Alan Deal and Plumbing 101 with Bill Grayzar. Bill then went on to present Plumbing 101 to a group of architectural engineering students at LTU, and the response was overwhelmingly positive. It was so successful, in fact, that Bill has been invited back to present in the future, as well as having other ASPE programs requested as part of the curriculum. This is an exciting and rewarding way to promote the industry and the importance of good plumbing design to the next generation of engineers. Way to go, Bill!

October brings us another hybrid meeting and couple of new topics: Pipe sizing for Metered flow, and a panel discussion on Utility Incentives. Both topics promise to educate and enlighten, so you don't want to miss them! See the VP Technical Report for more info and a link to register.

The October 2021 ASPE Book of the Month is ARCSA/ASPE/ANSI 63-2020: Rainwater Catchment Systems. ASPE members can get a 25% discount on this publication by using the coupon code FALLCOLORS. Find all the latest info about the plumbing industry in ASPE Pipeline: <https://www.aspe.org/pipeline/>

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OCTOBER BOARD MEETING

Virtual Online Meeting 10/5/2021 @ 4:30 PM

OCTOBER PROGRAM

HYBRID Meeting 10/12/2021, 5:00 - 7:30 PM

ASPE IS ACCEPTING APPLICATIONS FOR THE ALFRED STEELE SCHOLARSHIP

Contact ASPE National for more information at (847) 296-0002, or email info@aspe.org

President's Report (cont. from page 1)

Pam Hartsell, CPD

Follow our LinkedIn page to keep up to date on what Your Chapter and fellow members are up to: <https://www.linkedin.com/in/aspe-eastern-michigan-chapter-6333251b7/>

Looking forward to more good things - here at the EMC!

Your Chapter President,
 Pam Hartsell
president.aspe.ec@gmail.com

Save the Date

ASPE and the International Association of Plumbing and Mechanical Officials (IAPMO) are co-hosting "The Water Demand Calculator: Updating the Hunter's Curve Summit," a virtual event on November 4, 2021, from 9 a.m. to 5 p.m. CST.

Updating the Hunting's Curve Virtual Event

Virtual Event
November 4, 2021

**LATEST NEW MEMBER
 ~ WELCOME ~**

AARON STUROS

OCTOBER DESIGN SESSION

5:00-6:00 PM

TOPIC: Water: Metered Flow vs Traditional Sizing

The de-carbonization of buildings will require all design professionals to review the way that new buildings are designed and constructed. Less concrete, steel and other energy intensive building components will need to be optimized using the latest design guides. Current plumbing fixture flow rates combined with updated peak flow demand calculator assure proper pipe sizing. Repeated testing in the field confirms and validates the design tool's predictive results, as less conservative than prior tools yet still having an acceptable safety factor. The associated cost savings, water safety impact and ancillary associated structural support will substantially reduce the embodied carbon of the future building stock.



Alan Deal

Presenter: **Alan Deal, PE** is president of Performance Engineering Group, Inc. Performance Engineering Group has been actively involved in designing and marketing hydronic heating and domestic hot water systems since 1964. Performance Engineering Group has been involved with hundreds of energy conservation projects across a broad spectrum of market segments, including

renewable energy and waste energy solutions. Performance Engineering Group specializes in working with design engineers and contractors to optimize building performance and the return on capital investment in building mechanical systems. Alan has received many industry awards including multiple ASHRAE technology awards for energy conservation activities.

OCTOBER TECHNICAL - PANEL DISCUSSION

6:30-7:30 PM

TOPIC: Utility Incentives

As part of the global movement towards sustainability, utilities are offering generous rebates for the use of energy efficient components in building design. This month we'll be hosting a panel discussion with a group of industry experts to learn more about the types of systems that qualify, and also share some tips and tricks to getting the most out of these incentive programs.



Pam Hartsell

Panelist Leader: **Pam Hartsell, CPD, PMP, President - ASPE EMC**

With over 150 projects served, Hartsell has successfully managed engineering teams through the design and construction process in variety of business markets including Healthcare, Food Service, Multi-tenant Residential and Senior Living.

In addition to her work experience and a degree in Business Administration, she currently is pursuing an MBA at Wayne State University. Combined with a personal passion for employee engagement and workplace satisfaction, Hartsell can bring the type of leadership to a project that inspires people to do their best work, and to get it done on time, on schedule and on budget. The title of Project Manager is one she wears with pride.

About Registration and CEUs:

If you are attending virtually: there is a link to register via the ASPE Education page. Please follow all directions. Using this platform for virtual meetings allows us to streamline the CEU process. So all attendees that plan to join virtually, need to register via the corresponding ASPE Education link. Our meetings will also be listed on the ASPE Education calendar, so you can find registration info there as well. <https://education.aspe.org/>

There is also a passcode that needs to be entered for the virtual meetings now. This passcode is in the email invite as well as listed in the webinar instructions.

If you will attend in person (when we can offer this option): You will need to register using an Eventbrite link that will be in the email. This allows us to know how many people we can expect in person. Thus, allowing us to make sure we maintain the indoor gathering limits imposed by the Governor, and also order enough food for all. For those that attend in person, we will still require sign in/sign out sheets and your CEUs will be submitted to national within 1 week of our event. It may take up to another 2 weeks for the CEUs to show in your ASPE Education log. The PITC does have guest protocols we will have to obey in order to meet there, so please follow all posted signage and procedures.

IN THE KNOW

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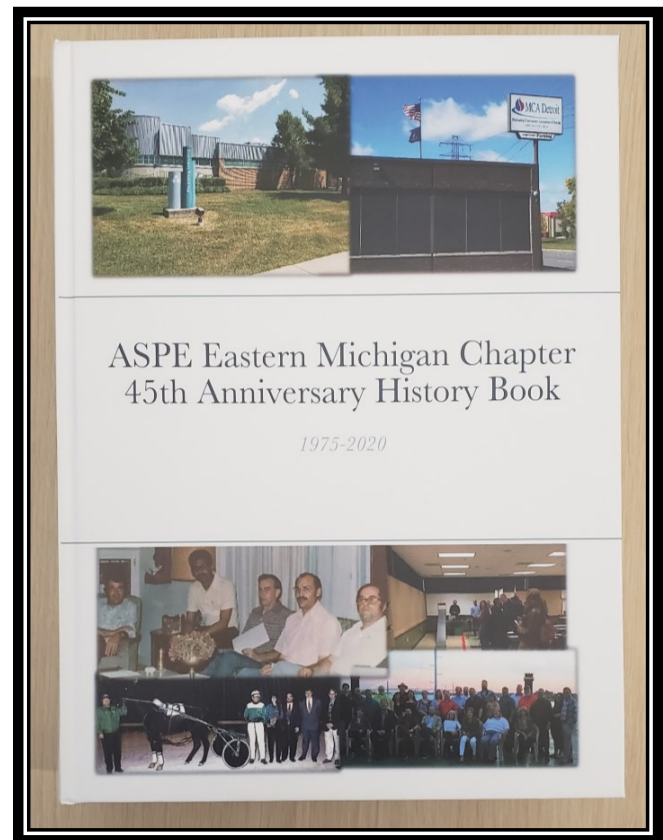
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VP Technical Report

Theresa Card, P.E., CPD, LEED AP BD+C



Hello from your VP Tech!

September was a great meeting! It was fantastic to see so many of you in person again – we missed you!

If you have missed any of the meetings last program year you can email and I will send you the link or you can look at past newsletters. Below you will find the link to September's recorded program. If you would like copies of the pdf handouts, please email me to let me know. I apologize, but no CEUs can be provided for watching meeting recordings.

Please note you will likely have to copy the text below and paste into a browser to see the videos – as we have found some cannot click the links directly from the newsletter itself.

September 2021 Presentations Recordings: Right Sizing Plumbing: An Overview and Plumbing 101

© <https://youtu.be/B2jR9wQ7JHM>

October Program

We hope you can join us for another great meeting in October, whether in person or virtually. See links below to register!

In person: <https://www.eventbrite.com/e/aspe-emc-october-2021-technical-program-tickets-176778628637>

Virtual: <https://education.aspe.org/products/eastern-michigan-chapter-meeting-water-metered-flow-vs-traditional-sizing-and-panel-discussion-on-utility-rebates-oct-2021>

Tech Symposium

I had the pleasure of attending the Tech Symposium in San Diego. As always it was VERY informative with a lot of good technical sessions. The product show was great and very well attended.

Some very quick recaps I learned during the symposium I want to share with everyone. This is a short list of the things I learned, I could write pages and pages with everything, but I want to keep this brief for those of you who actually read this newsletter:

© Fire Protection

- Did you know it only takes 2 oz. of water to freeze a ball valve? Specifically in the auxiliary drains of your dry pipe system. Maybe a concern we don't normally think of, but the ability to keep the aux drains functional and keep them from freezing can be a huge cost should one break!
- For dry/pre-action systems:
 - If you have a tank mounted air compressor, use an accelerator, it will help with the system maintenance

- If you know you have humid ambient air spec a desiccant dryer or nitrogen for your system
- There is such a thing as a non-interlock pre-action system. It is basically just a dry system with some time of actuator. The speaker had only seen (1) in 40 years, so not common but does exist.

- Residential sprinkler systems are LIFE SAFETY systems, while commercial sprinkler systems are property protection – a key distinction between the two
- NFPA 25 has, since 2007, required a full forward flow test of the backflow preventer on the FP system ANNUALLY and this is hardly ever witnessed and the piping to properly test this is hardly ever seen installed. It is also supposed to be called for in the shop drawings by the installing contractor (“Forward flow test if accomplished as follows...”).
- SFPE Position Paper 20-1 – check it out. Delineates what is our responsibility as EOR and the FP designer's responsibility

- https://higherlogicdownload.s3.amazonaws.com/SFPE/93e7d31c-6432-4991-b440-97a413556197/UploadedImages/GovernanceDocuments/Position_Statements/PositionStatement2020-1_ET_FINAL2.pdf

■ Fun facts:

- 98% of all fires have less than 5 sprinklers activate to contain
- 90% of fires have only 1 sprinkler that activates to contain
- Water mist systems use 1/10th of the water of a standard wet system

- We need to start thinking about air entrapment in FP systems and put high point vents.

- Only use an alarm valve vs a shotgun riser valve when there are concerns about losing electricity (alarm valves are more expensive)

- Battery fires are mostly caused by an electrical short in 1 cell

© Plumbing

■ Water heater venting:

- Even if you have direct vented appliances, there is typically a requirement for dilution air (refer to MFR literature) and ventilation air (for the room). Most heaters have about 3% heat loss to the room and you should keep the room with a 5-10 degree differential from outside temps
- Each MFR has their own requirements and elbow limitations – always check the literature for the manufacturer you are using

-
- o Wind can affect venting capabilities – make sure the vent doesn't get blown back into the pipe with prevailing winds
 - o If your heater has more than 3 walls around it (including roof) – it is considered an indoor appliance
 - o When you specify concentric vent terminations, during the punch make sure they have the correct vent and intake in the correct location in the termination
 - o Heat pump heaters do not need to vent combustion gases, but do still need adequate dilution and ventilation air in the room
- Hot Water Systems:
- o With all the current code, standards and guidelines – we really should be designing our domestic hot water systems for no less than 124 degrees in ANY part of the system. This would mean storing and sending out at higher temperatures to ensure your HWR system comes back at 124 degrees. So that would mean distributing at ~130 degrees with point of use protection for all showers, bath and places people use for handwashing (which is not always just lavatories).
 - o You will never comply with all the codes, standards and guidelines, it is always a balancing act.
 - o Remember to watch pressure drops through mixing valves. Design for 5-10 psi drop (5 preferred at design flow rate).
 - o ASPE's legionella design guide will be distributed soon for public comment – READ IT. COMMENT. This is ASPE's chance to provide our own standard with our expertise instead of getting the conflicting requirements from ASHRAE/OSHA/CDC/etc.
- Now as your WOA for Region 2, I can also say the WOA booth at the Symposium was a great success and our Thursday night social was fun!
- Sincerely,
- Theresa Card,
Vpt.aspe.emc@gmail.com
-



VP Membership Report

Kristin Simoneaux, P.E., CPD, LEED



Happy cooler weather everyone! (Sorry, I am a winter kid through and through and this summer with my air conditioner down for the count for 2 months nearly took me down.) I hope you are all staying healthy.

Did you know you can get a **discount when you renew your membership?**

Renewing for multiple years at a time can save you \$\$\$. If you renew for two years you will receive a 5% discount. If you renew for 3 years you will receive a 10% discount.

First year members: renew early and save! If you renew by the eighth month of your membership, you may receive reduced dues for your second year. Those eligible are members who joined after July 1, 2018. Funds are only available for the first 125 members per quarter.

Don't forget, our chapter is again offering a free 1-year student membership to eligible students. In exchange for the free membership, we request the student give feedback on their experience (through either a short interview or writing their own newsletter article) within the first few months of their new membership.

We had a great turn out last year of students that were interested. LTU was in the lead with the most student members from that university join. If you know of a student that has been contemplating membership, please send them my way!

Ever want to be a part of more than one ASPE chapter? We can make that happen!! Once you become a member and choose your home chapter (standard dues rate of \$190), you can join additional chapters (as many as you wish) for only \$80 per chapter. Region 2 chapters are indicated below but we have many beyond what is listed here: <https://www.aspe.org/membership-global-community/chapters/>. Members can serve on the board of directors for any of the chapters they join. If you are interested in pursuing this option, please contact me and I can walk you through the process.

If you have any questions or need help joining/renewing your membership, please feel free to reach out to me directly. Until we meet again, stay healthy!

Kristin Simoneaux, P.E., CPD, LEED AP
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Reports To: Engineering Sales Manager

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Who We Are Looking For:

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Responsibilities Include:

- **Selling – Pursuing the Order:**
 - Close the order at the engineer level (specifications and schedules)
 - Negotiate pricing
 - Coordinate quote
 - Manage vendors
 - Engineer/systems design
 - Internal collaboration/coordination
 - Follow-up on leads from Customer Service & Inside Sales
 - Respond to pricing requests
 - Joint sales with customers
 - Exceed sales goals for sales territory

- **Customer Management:**
 - Problem solving
 - Conduct training
 - Meet with customers: relationship building
 - On site tech support
 - Visit jobsites

March 2021



- **Internal Administrative Activities:**
 - Acquire product/industry/technical knowledge
 - Develop and analyze sales plan
 - Weekly teleconference call
 - Attend department offsite meeting
 - Utilize CRM to provide regular updates on projects & customers
 - Personal development
 - Backup Estimation

- **Marketing:**
 - Attend social events: golf outings, trade shows
 - Participate in professional organizations: i.e. ASHRAE, ASPE

- **Miscellaneous**
 - Commitment to Ongoing Personal Training / Development
 - Other duties may be assigned

Requirements:

Strong Computer Skills in Microsoft Office Suite, Technical background in HVAC (Degree Preferred), Ability to Multi-Task, Strong Desire to Learn, Take on responsibility, Great People Skills, Detail Oriented.

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March 2021



Cindy Zatto

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SEPTEMBER MEETING PHOTOS



Alan Deal presenting Right Sizing for Plumbing Systems



Bill Grayzar presenting Plumbing 101

SEPTEMBER MEETING PHOTOS



Good in-person turn out for the event



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SEPTEMBER MEETING PHOTOS



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SEPT. MTG AND SYMPOSIUM PHOTOS



ASPE EMC President Pam Harsell (center) presents May speakers Alan Deal (far left) and Bill Grayzar (far right) with Certificates of Appreciation



ASPE EMC Liaison Dann Holmes (far left) and ASPE EMC President Pam Hartsell (far right) receive 2021 Director's Awards (Region 2) during the ASPE National Symposium in San Diego. Award received from Region 2 Director Steve J. Kormanik (center)

SYMPOSIUM PHOTOS



Dann Holmes receives 2021 Director's Award (Region 2)



Pam Hartsell receives 2021 Director's Award (Region 2)



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Mentoring Program

The Women of ASPE are excited to introduce ASPE's new Mentoring Program!

This program, which is available to all members of the Society, has been designed to connect ASPE members who have a particular skill set (mentor) with individuals (mentee) who are searching to acquire the same skills to develop and make progress toward their personal and professional goals.

Who Is a Mentor?

A mentor is someone who can help the mentee develop skills for success and long-range career planning, is able to be a good listener, is willing to share experiences and views, is willing to commit time and effort, provides an "open door" to questions and problems, points out both strengths and opportunities for improvement, and has a vested interest in the growth and development of their mentee.

Benefits to the mentor:

- Satisfaction in helping someone mature, progress, and achieve goals
- Meeting and sharing experiences with other mentors
- Personal ongoing support to help the mentee succeed
- Personal fulfillment through contribution to the Society and the individual

Who Is a Mentee?

Having a mentor can contribute to a successful and satisfying career. Without a mentor, that learning occurs mostly through trial and error. With a mentor, even experienced professionals can benefit from the experiences and expertise of someone who has withstood the trial and can help the mentee avoid the mistakes. Similarly, those new to the industry will discover that being a mentee shortens the learning curve for acquiring the skills and knowledge most critical to a fruitful career.

Benefits to the mentee:

- Discover new talents about yourself
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- Maximize your strengths

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