



Newsletter

Western Michigan Chapter

January 2021

WESTERN MICHIGAN

This months Meeting info: [Lunch Meeting Information:](#) [Dinner Meeting Information:](#)

Date:

**Thursday
January 14th**

Location:

**Virtual Meeting
12PM to 1PM**

Location:

Dinner meetings have been postponed until further notice.

Speaker:

**Todd McCurdy
Powers / Watts**

Link to the meeting:

**[JOIN THE MEETING](#)
to launch the webinar**

Subject:

**The Evolution of Mixing
Valves & Hot Water Safety**

**This meeting will be offered
at no charge.**

Important Information!

Western Michigan ASPE meetings will continue to be held virtually for at least another month.



Chapter President—Tom Kingshott

Welcome to 2021!!

We have a full year of programs planned for this year with some outstanding speakers. Our hope is that the state of Michigan will open up soon to allow for in-person meetings.

Other educational opportunities (many free for members) throughout the Society are available through the ASPE Pipeline e-mails that are sent to members monthly.

Stay tuned for more developments!

VP Technical—Chuck Shoudel

Welcome to 2021 Everyone!

I hope everyone had a very Merry Christmas and a Happy New Year. I would like to thank everyone who attended our December meeting. We had 26 attendees. I would like to thank Robb Davis, P.E. Staff Engineer at MIRO for running back to back presentations for the start time fiasco. It was a great presentation.

This month we will be hosting Todd McCurdy, Business Development Manager, Tempering - East Division of Powers / Watts. He will be discussing the importance of mixing valves in a plumbing system, the evolution of technology that blends water in mixing valves, Thermostatic Mixing Valve technologies, Digital Mixing Valve technology and the benefit of Digital Mixing IoT Connected devices.

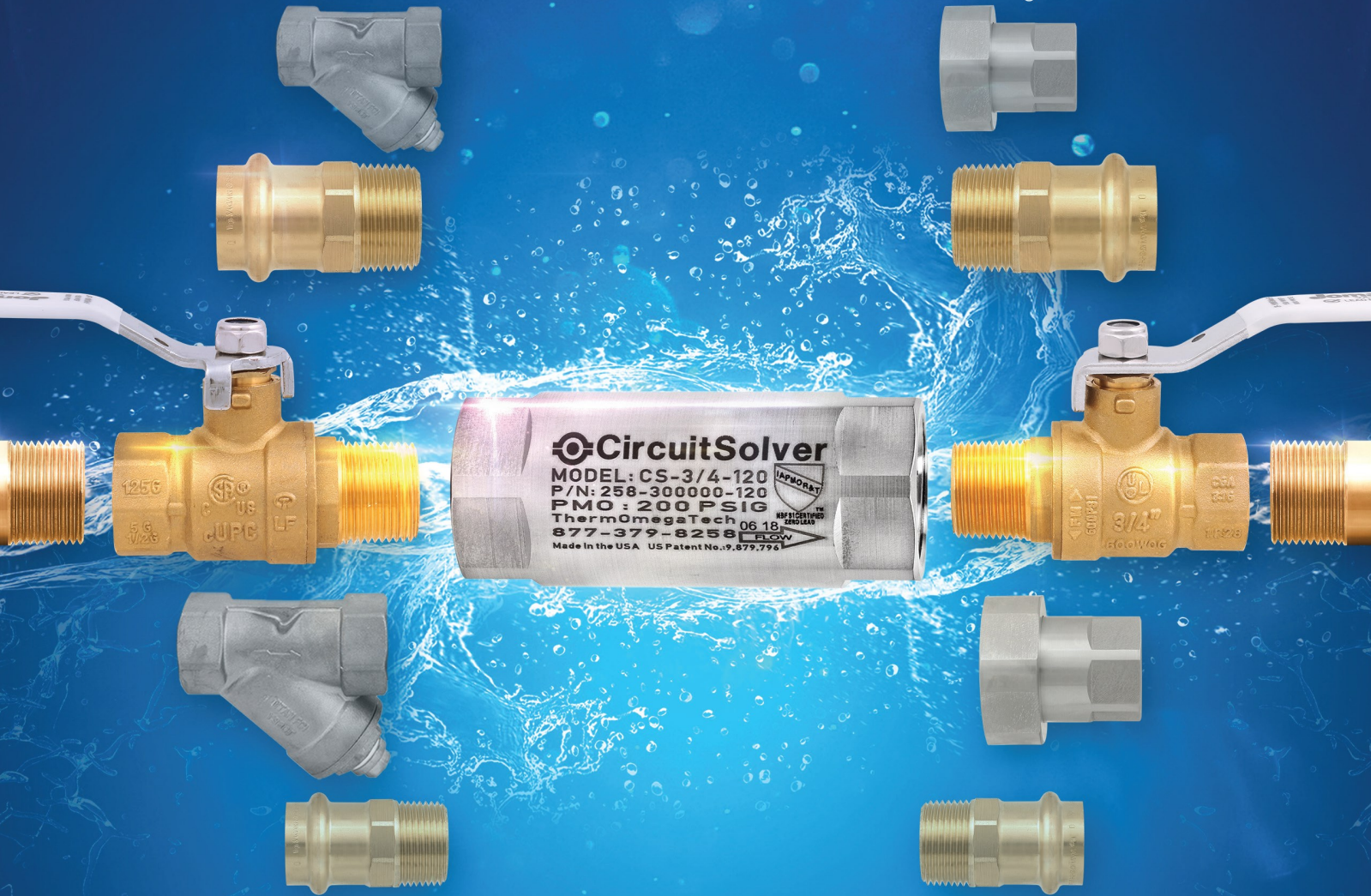
Our January virtual ASPE chapter meeting will be hosted via Teams. A link will be sent to you from ASPE Western Michigan Chapter, aspewestmichigan@gmail.com. The meeting will be free to all attendees.

Santa stopped by to let me know that he had a few presents for some lucky West Michigan ASPE members in attendance to last month's ASPE meeting. They will be sent to the mailing address on file with ASPE Society, may it be your home or work.

Have a great New Year!

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VP Membership — John Cassady

Hello ASPE Members,

We are currently at 76 members in our chapter. For those of you that have a membership expiring by the end of January, you should have received an email from the national society already. I will send out personal reminder emails to those same members this week.

Many of you have your memberships on a calendar year, so please look out for notices either from myself or the national society over the next few months.

If you have a coworker that is interested in joining our chapter, please have them reach out to me for membership.

If you have any extenuating circumstances regarding your dues and COVID-19, please feel free to reach out to me privately. The national society has a waiver of dues that you can apply for to retain your membership during this time.



ASPE WANTS YOU!

We are always looking for new members. Bring someone new to the meeting this month.



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Watco Bath Wastes - watcomfg.com



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VP Legislative—Brian Peceny

As plumbing designers, one of our first steps is to determine our required water supply service size. For our domestic potable water, we use water supply fixture units, and then tables and information found in Appendix E of the Plumbing Code. But we are also typically asked to provide the required line size for the fire sprinkler system. Many AE firms provide only performance information for fire sprinkler systems and leave the actual design to the licensed fire sprinkler contractor. Though we may not be providing actual sprinkler layout design, we should be providing the sprinkler supply line size.

Like most questions related to fire sprinkler, we start with NFPA-13, which is the standard for the installation of sprinkler systems.

Looking at NFPA-13, 2016, I'd recommend a review of Chapter 11 as well as the appendix A. Section 11.1.4, Water Demand, provides three methods to size the water service demand.

- 1) Occupancy fire hazard control approach. This would be used for most buildings other than storage facilities.
- 2) Storage design approach for any building or portion of buildings with product/commodity storage.
- 3) Special occupancy approach. This is chapter 22 in the 2016 NFPA standard.

Being limited with time let's focus on the occupancy hazard approach. Looking section 24.1.3 of NFPA-13, 2016 or 5.1.3 of the 2019 version, you'll find direction for the Fire Main service. Right off the bat, it states that no pipe smaller than 6 inch shall be installed as a private main (private main starts at the property line). If you want smaller, then you must provide hydraulic calculations confirming the supply is sufficient.

How much water for the sprinkler system? First step is to determine your worse case design criteria. Light Hazard, Ordinary 1 or 2, Extra Hazard 1 or 2. To determine the hazard criteria for your building, I recommend reviewing Appendix A, Section 5.1 (2016). This section provides recommended hazard classifications for different building types. For example, a library would be considered light hazard, but the stock rooms are considered Ordinary hazard group 2.

Once you know your hazard classification, next is to determine that required flow. NFPA has many tables and diagrams to show pressure and flow requirements. For quick estimating purposes I would recommend starting with the minimum coverage area and maximum flow rate from table 11.2.3.1.1 (nfpa loves extended sub indexing). For the library example, light hazard would be 0.1 gpm over 1500 sqft. While the stock room at

VP Legislative—Brian Peceny (Conti.)

ordinary hazard 2 will require 0.2 gpm over 1500 sqft. Therefore, we would use the larger of the two, which equal 300 gpm.

But that's not the only flow, all sprinkler systems must account for a hose allowance. Even though your building might not have an internal hose, you still must account for this flow for hydraulic calculations. Again, there are various design requirements, but if you need a quick estimate, you can use 100 gpm for a light hazard or 250 for ordinary hazard. So, for our example, we have 300 gpm for the sprinklers and 250 for the hose for a total of 550 gpm. Because this is a minimum flow required, actual flow will be higher. For comparison, a building with only light hazard sprinklers would end up at only 250 gpm.

For some safety factor, lets add 10% flow, which means we end up with 605 gpm. I should note that we talk about safety factors in sprinkler systems, we are actually referring to pressure and not flow. There we like a 10% safety where possible. Now that you have your flow estimate, you can size your line. Can you afford high pressure drop in the service line? Do you want to take that chance? Are you capable of performing a detailed hydraulic calculations to show your pressure safety is met? If no to any of the above, I would avoid velocities over 10 fps to keep the pressure drop to reasonable values. In our example above, a 4" service line would have approximately 19' head of pressure drop per 100' (8.2 psi), while a 6" service has only 2.4' head drop over 100'. So, if your service main is really short, and you have great city water pressure, you can consider the smaller line size. But if you don't have recent hydrant information, or longer service mains, it may be prudent and go with the larger line size. And I go back to the water service main note, that states you shall use a 6" service (or larger) unless you can prove otherwise.



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2019-2020 ASPE Western Michigan Meetings

September 10th
Warren Hill
Gasco
Z21.80 Gas Line Pressure Standard
and Codes

December 10th (Christmas Party)
Robb Davis
MIRO
Roof Pipe and Duct Supports,
Crossover Stairs, Service Platforms,
Ramps

March 11th
Charlie Watson
Watts
Water Hammer Arrestors

October 8th
Jeff Hamilton
Reliance Worldwide Corp
Fire Stop Assemblies

January 14th
Bruce Fathers
Powers
Mechanical and Digital Mixing Valves

April 8th
Steve Machler
Roof Penetration Housings, LLC
Roof Penetrations

November 12th
Michael Sokaris
Centrotherm
Venting high efficiency equipment
with plastic

February 11th
John Clark
Woodford Manufacturing
Roof and Wall Hydrants

TDB
ASPE Annual Golf Outing

2018-2019 ASPE Western Michigan Chapter Board

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AYP Liaison — Luciana (Luci) Kayo

Happy New Year everybody!

2021 is here and although very few plumbing and mechanical industry organizations are trying to organize in-person meetings, most events are still being held online.

If you are looking for staying up to date or learning something new, here are some events to attend in the next couple of months. You can click on the links below to find out more information about each event including program schedule, and registration fees.

Continuing education credits are available for some of the technical sessions.

Dates	Event	Host	Location	Website
January 13 - 15	10th International Institute of Refrigeration Conference on Compressors and Refrigerants	IIR	Virtual	iifir.org
February 9 - 11	ASHRAE Virtual Winter Conference	ASHRAE	Virtual	ashrae.org
February 9 - 12	Kitchen and Bath Industry Show	NKBA	Virtual	kbis.com
February 9 - 12	National Association of Home Builders - International Builder's Show	NAHB	Virtual	buildersshow.com
February 15 - 18	Indoor Air Quality Association Global Virtual Annual Meeting & Expo	IAQA	Virtual	annualmeeting.iaqa.org
February 16 - 18	International District Energy Association Campus Energy 2021	IDEA	Virtual	districtenergy.org
February 23 - 25	Water & Wastewater Equipment, Treatment & Transport Show	WWETT	Indiana Convention Center, Indianapolis & Virtual	wwettshow.com
February 25	Construction Contractors' Alliance Spring Meeting	CCA	Virtual	phccweb.org

Stay healthy and have a great 2021!



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