



Newsletter

Western Michigan Chapter

November 2021

WESTERN MICHIGAN

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

Date:

November 11th

Location:

**Park Club of Kalamazoo
219 W. South Street
Kalamazoo , MI 49007**

Location:

**Stone Water Country Club
7177 Kalamazoo Ave SE
Caledonia, MI 49316**

Speaker:

Tim Jones

Armstong International

Time:

Noon to 1PM

Time:

5:30 PM followed by dinner

Subject:

**Pipe Up - Leading Edge
Prospective On Best In
Class Domestic Hot Water
System Design**

Cost:

\$25 per person

Cost:

\$30 per person

Important Information!

**The new West Michigan ASPE website is
coming soon!!!!**





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Chapter President—Tom Kingshott

Here we are, close to Thanksgiving again! This year seems to be moving pretty fast; the weather has taken a turn toward winter and the Christmas decorations are out in stores already.

On a national level, ASPE is now offering the Green Plumbing Design (G.P.D.) and the Certified in Plumbing Design (C.P.D) are all offered online! These are great certification programs that both personal and professional development. In addition, the 2022 A.S.P.E. convention is in Indianapolis next year from September 16-22, 2022.

We are moving forward with the new Western Michigan A.S.P.E. web page and it is going to include an online registration system!

As your local Board, we are also working on a slate of candidates for next May; if you are interested in serving in a Board position, please contact me at kingshottt@progressiveae.com.

VP Technical — Chuck Shoudel

We have Tim Jones with Armstrong International presenting “Pipe Up - Leading Edge Prospective On Best In Class Domestic Hot Water System Design” this month.

I look forward to seeing everyone at the meetings.



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VP Legislative —Bryan Peceny

October Legislative news flash!

Last month we had the privilege of have Mr. Scott Young with Zurn Drainage. Our program featured a discussion about roof drains. For as long as I've been designing roof drainage systems, I've relied on the plumbing codes as my main design tool. I'm old enough to have used the BOCA Codes, and then the Michigan and International Plumbing Codes. To the best of my knowledge there has never been a difference between the MPC and IPC when it comes to chapter 11 for Storm drainage.

For many years, up to the 2015 IPC, sizing for roof drains and the storm leaders was based on roof drainage area. Tables in the IPC provided roof area coverage relative to rainfall rates, (100 year, 1-hour historical data), pipe slope from vertical up to $\frac{1}{2}$ " per foot, for various pipe sizes. Starting in 2015, the IPC tables switch to flow capacity (GPM) relative to pipe slope and pipe sizes. Using your rainfall rate and drain roof coverage area you can convert that in/hr over roof area to GPM. Selecting your design pipe slope, you can determine required pipe size(s) or number of drains. If you choose, you could select your drain size to match the vertical pipe storm GPM. If you closely review the IPC tables, you note the perceived obvious that the vertical drain can handle more GPM than the $\frac{1}{16}$ " and $\frac{1}{8}$ " sloped drains. But at $\frac{1}{4}$ " per foot the values become closer and at $\frac{1}{2}$ " per foot the vertical drain flows less water.

We use the tables to select our roof drains. When looking at cut sheets of roof drains, one thing I've never seen was an actual sizing guideline based on roof area or listed GPM. I just assumed it was close to vertical pipe values listed in the IPC tables. You could select based on vertical pipe or maybe more conservative (me) based on your horizontal pipe run if you have one. Note that quick transitions up in joist space between drain and horizontal offsets will affect the performance of your roof drain.

Now to the main topic of the program. Scott referenced new testing that ASPE and I believe IAPMO are performing to better determine how well roof drains are performing. This follows testing done about 10 years back directed by Julius Ballanco. The findings are quite interesting. Overall, we find that basic assumptions of larger drains always outperforming smaller drains in direct relation to the drain areas is not necessarily true. Drains certainly perform better with more head or ponding height on the roof, but they react differently to the piping arrangement below the drain. You would (or I would) assume that straight pipe would always outperform offset pipe systems, but again this is not always true. At lower and design heads (say 2"), there is not much difference, but we see changes with higher heads. The chart below shows the performance at different head pressures and different head pressures.

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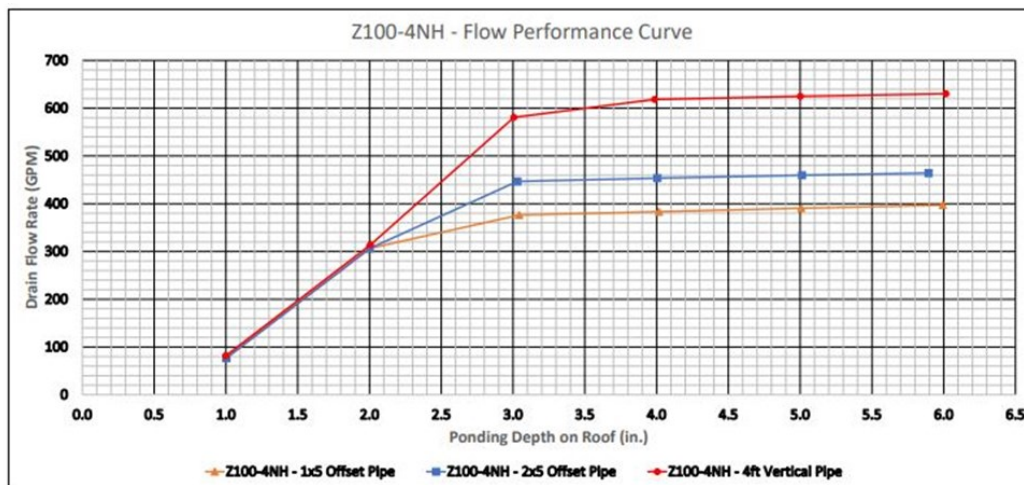
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VP Legislative —Bryan Peceny (continued)



The chart below shows performance (GPM) of a typical Zurn roof drain at different head pressures. Note how close the GPM values are between the 4" and 6" drains for 2" head pressure. Not what I would have expected.

Outlet Size		UPC* IPC**		Straight Piping						
				Head Depth (in)	1"	2"	3"	4"	5"	6"
2"	Flow (GPM)	30	34	Flow (GPM)	61	110	108	148	189	202
				Velocity (ft/s)	8.6	9.0	9.0	9.0	9.0	9.0
3"	Flow (GPM)	92	87	Flow (GPM)	58	152	202	414	448	467
				Velocity (ft/s)	3.2	7.7	7.9	9.7	10.1	10.3
4"	Flow (GPM)	192	180	Flow (GPM)	68	184	242	608	768	790
				Velocity (ft/s)	4.1	7.5	8.5	9.2	9.8	10.3
6"	Flow (GPM)	563	538	Flow (GPM)	111	188	382	629	1034	1520
				Velocity (ft/s)	0.8	6.0	8.0	8.3	9.1	10.3

What Zurn and other manufacturer's have discovered is that the typical bowl/sump in a drain, shaped with rather straight vertical sides, limits the flow rate into the sump at lower heads or the heads we try to maintain for structural reasons. They have developed a new funnel shape drain that provides much higher flow rate at the same diameter and head pressure as the standard drains. Pictured below is the Zurn Z100 "floforce". When comparing the 4" drains with 2" of head, the standard drain flows 184 gpm while the new design flows 314 gpm.

1x5 Offset Pipe Outlet		2x5 Offset Pipe Outlet		4ft Vertical Pipe Outlet	
Roof Ponding Depth (in.)	Flow Rate (GPM)	Roof Ponding Depth (in.)	Flow Rate (GPM)	Roof Ponding Depth (in.)	Flow Rate (GPM)
1.00	79.31	1.00	76.30	1.00	81.68
2.00	306.65	2.00	306.58	2.01	314.14
3.04	376.36	3.03	446.73	3.01	580.74
4.02	383.20	4.01	453.45	3.99	618.29
5.01	390.66	5.01	459.53	5.00	624.89
5.99	397.10	5.89	464.23	6.02	630.21



In conclusion, review manufacturer sizing guidelines and information, not just the code tables. Find out what ponding is allowed (2"?). Be careful with quick pipe offsets. You don't have to switch all drains to the new style, just be aware of their actual performance (reach out to our great reps). And have a wonderful Thanksgiving.



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the
date!**

09 · 16-21 · 22

INDIANAPOLIS

2021-2022 ASPE Western Michigan Meetings

September 9th
Matt Sleeper
J.R. Smith
Requirements for Lavatory, Drinking
and Water Closet Fixture Carriers

December 9th (Christmas Party)
Joe Grote
Clarion Bathware
Accessible Bathtubs and Showers

March 10th
Mark Stone
EMGS
Medical Gas Systems

October 14th (lunch)
October 21st (dinner)
Brandon Dawe / Dale Sheehy
Balfrey & Johnson
Roof Drain Sizing to meet the updated
IPC code

January 13th
Ray Kennedy
KSI Kennedy Solutions
Codes and Standards for Selection
and Installation of Grease
Interceptors and Oil Separators

April 14th
Dave Shugars
RL Deppmann
Domestic Hot Water Recirculating
Systems

November 11th
Tim Jones
Armstrong International
Pipe Up - Leading Edge Prospective On
Best In Class Domestic Hot Water
System Design

February 10th
Samantha Hoch
Haws
Simplified Guide to ANSI/ISEA
Z358.1 (.10 CEU) - Emergency
Eyewash and Showers

TBD
ASPE Annual Golf Outing

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AYP Liaison — Luciana Kayo

Hi everyone!

I hope you are ready for the cold weather! (And Thanksgiving, of course).

This month I am excited to announce that we are planning a field trip at the Mary Free Bed Rehabilitation Hospital on the first week of December. Bill Rohen at Taggart-Knight will show us the installed Powers IntelliStation digital mixing valve and talk about how it works and its advantages for maintaining a hot water recirculation loop in healthcare facilities.

When: December 2nd, 9:30 – 10:30 am (to be confirmed)

Where: 235 Wealthy St SE, Grand Rapids, MI 49503

Due to Covid restrictions, the hospital will only allow a group of maximum 10 people on the tour. If you are interested in joining us, please RSVP as soon as possible by sending me an email at lucianak@compeng.com. The priority to join the tour will be given to AYP members, and non-AYP members that express interest will be placed in a waiting list in case any seats become available. Please state in the email your current member status as AYP or non-AYP.

We will send you a reminder and more details about the tour in the next few weeks.

Happy Thanksgiving and I hope to see you there!

About Mary Free Bed Rehabilitation Hospital:

In 1891, a small group of women wanted to help people who could not afford health care. At that time, Mary was the most popular woman's name and the group started asking anyone named Mary - or anyone who knew someone named Mary - to donate a dime. That way, they quickly raised enough money to support the first free bed at a local hospital, that became known as the first "Mary free bed".

Today, the non-profit hospital is a 167-bed acute care inpatient rehabilitation facility for children and adults who have experienced a brain injury, spinal cord injury, stroke, amputation, or other injury requiring physical rehabilitation. The hospital was expanded from 80 beds to 167 beds in 2015 and it is one the largest rehab facility in the United States.

Source: <https://www.maryfreebed.com/>

VP Membership — John Cassady

Hello ASPE Members,

We are currently at 76 members in our chapter. I would like to extend a welcome to Nick Blank. For those of you that have a membership expiring by the end of November, you should have received an email reminder from the national society already. I sent out follow-up reminders to you all as well.

Many of you are on memberships that expire at the end of the calendar year. Please keep an eye out for renewal emails so your membership does not expire over the holidays.

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

Congratulations to:



Rep of the Month—Jonathan Burke

Engineer of the Month—Travis Smith



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(9) inserts of the Business Card Ad in the newsletter

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Payment is due by September 17th. With your payment, please include your current business card as you want it to appear in the newsletter.

Please contact me with any questions you may have.

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