

NEWSLETTER

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Roof Drainage Design Considerations

WEDNESDAY, DECEMBER 10TH

12:00PM-1:00PM LUNCH PROVIDED

THE THIRSTY GOAT

FITCHBURG, WI

THURSDAY, DECEMBER 11TH

5:00PM - 6:00PM NETWORKING & DRINKS

6:00PM - 7:00PM MEETING AND DINNER

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VISIT ASPEWI.ORG to register

FROM THE PRESIDENT'S DESK

BY: JON MILLARD, PE



Happy December!

We're already almost halfway through this ASPE "School year" and have some great topics for upcoming meetings lined up. I really hope to see as many of you as I can at the Dinner Meeting in Milwaukee this month!

With us being halfway through the year, I thought I'd mention our chapter election process. Every board member serves as a volunteer and is either elected or appointed to the board, with us holding elections every 2 years in the spring (usually in May). The following positions are elected: President, VP-Technical, VP-Membership, VP-Legislative, Treasurer, Administrative Secretary, Corresponding Secretary. The following positions are appointed: Newsletter Editor, Affiliate Liaison, AYP Liaison, WOA Liaison, Golf Outing Chair. Each election cycle, the most recent chapter president is tasked with organizing a ballot and sending a ballot out to all members for the election. Individuals who are interested in running for any of the board positions (or just want to learn more) should reach out to the most recent president. In our case, the most recent (active) president is Aaron Bock.

I've had the privilege of serving on the board in many of these positions throughout the years, starting as the chapter AYP Liaison, then Administrative Secretary, then VP-Legislative, then VP-Technical, and now as the current Chapter President. Serving in any of these capacities can be very rewarding and help build your professional network. Most chapter presidents only serve for a single 2-year term and then step aside to let someone else come in and take over that role. That is my plan for this election cycle as well.

If you have any interest in serving on the board, now is the time to start thinking about it, and asking questions. I (and anyone else on the board) would be happy to discuss with anyone that has an interest in learning more. Feel free to reach out!

I hope you all stay warm as we head into winter, and I hope to see you at an upcoming meeting!

Upcoming Events

VISIT ASPEWI.ORG TO SIGN UP

NOVEMBER	12th	Lunch Meeting - Madison
	13th	Lunch Meeting - Milwaukee
	13th	Dinner Meeting - Milwaukee
DECEMBER	10th	Lunch Meeting - Madison
	11th	Lunch Meeting - Milwaukee
JANUARY	14th	Lunch Meeting - Madison
	15th	Dinner Meeting - Milwaukee
FEBRUARY	11th	Lunch Meeting - Madison
	12th	Lunch Meeting - Milwaukee
MARCH	11th	Lunch Meeting - Madison
	12th	Lunch Meeting - Milwaukee
APRIL	16th	Joint Technical Seminar & Product Show with PHCC
MAY	13th	Lunch Meeting - Madison
	14th	Lunch Meeting - Milwaukee



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LET'S GET TECHNICAL WITH VP TECH

BY: JUSTIN MONK, D.E.S.



For many of us the end of the year means major project milestones or deadlines. Likely you are working feverishly to complete your Calculations, Drawings, and Specifications (Project Documents) to ensure they provide enough information for an accurate bid and a design that is constructible. Amongst this rush of finalizing your project documents includes an internal review by another experienced or senior Engineer/ Designer, or the Engineer/ Designer of Record who will sign and seal the project documents, or a Technical Discipline Practice Leader. These internal reviews could lead to additional work to be done or at worst a major change to your project with the deadline looming. Years of experience indicate that a proper design phase QAQC delivery method helps ease the rush to meet the project's milestone or deadline.

What is QAQC?

QAQC stands for Quality Assurance Quality Control. Early in my career I viewed QAQC as only that final review from my senior Engineer. During that time, I would receive comments back that changed the trajectory of my project documents. There were so many RED-mark comments on those drawings, I knew he used the entire pack of those RED Bic's gel tip pins. A proper understanding of the QAQC process could have dramatically reduced the amounts of errors and comments during that internal review.

The Fundamental Difference: QA vs QC

What is the fundamental difference between quality assurance and quality control? First, Quality Assurance (QA) and Quality Control (QC) are often confused or used interchangeably, which is a mistake that can lead to serious project issues. The fundamental difference is that QA acts as a guide throughout the design process and QC identifies where adjustment is required. To illustrate, the Quality Assurance part of this process is like the painted dash lines on a road or highway. These dashes allow the driver a measure of freedom within the lines. The Quality Control part of this process is the rumble strip on or outside the dash lines to indicate that immediate course correction is needed.

Quality Assurance (QA)

Quality Assurance (QA) is the planned and systematic process that provides confidence that a project will satisfy established quality requirements. QA focuses on prevention by establishing procedures, standards, and protocols before problems occur. Quality Assurance can be defined as the proactive approach that keeps your project on track from the beginning.

Quality Control (QC)

Quality Control (QC), on the other hand, is the effort to monitor various phases of the design process to determine if they comply with the steps outlined in Quality Assurance. QC focuses on detection and correction, identifying when something doesn't meet certain requirements, like the code or the client's and industry standards. It also allows the reviewer to include their experience and industry knowledge to assist or heighten the quality of the project. When RED-mark comments are not fully understood or agreed to can lead to or additional conversation between the reviewer and engineer / designer to remedy the issue.

An example of the design phase QAQC could include topics such as:

- Design Contract & Fee Review
- Code Analysis
- Client, AHJ & Design Team Meetings
- Site Visit (where applicable)
- Design Scope of Work Narratives
- Preliminary and Final Calculations
- Fixture, Equipment and Materials Selections
- System Modeling and Detailed Drawings Tasks
- Coordination with other Design Disciplines
- BIM Clash Detection
- Schedules and Specifications
- Plan Review Submittal

Each item listed above would be assign different stage of the design where it needs to be completed (i.e. Programming, Schematic Design, Design Development, Construction Documentation, Bidding, Permitting and Construction).

Final Thoughts

Prior to a project begins, work with your firm's Engineer/ Designer of Record, or a Technical Discipline Practice Leader to identify the design phase QAQC process. Keep in mind that the QAQC process doesn't completely stop when the project documents are issued for construction but changes the engineer / designer to the QC reviewer of the contractors' installation. Now it's your turn to provide RED-mark comments!

Understanding the design phase of QAQC can dramatically reduce errors, improve workflow efficiency, and prevent costly mistakes. If properly followed, the QAQC process should not be feared, but embraced, because it enables your project to be delivered on-time, with quality, a design that is construable and with limited RFI's. Overall the design

phase QAQC should be used by all for it protects your firm and your reputation as a design professional that others want to work with.



MONTHLY MEMBERSHIP UPDATES

BY: RICH DAVISON



Welcome to winter – although the astronomical date is really December 21st so really this subzero temperature is not technically a cold winter – yet....

Our ASPE season is going well with lots of involvement in our general meetings and a nice amount of interest with the younger engineers from last months meetings. Thank you, MSOE, and PMSI for hosting and being so involved with our Wisconsin chapter.

This month we will focus on yet another way you can get more out of your membership:

MEMBER BENEFIT TIP #2 - ASK A MEMBER FOR HELP Being a member in ASPE enables you to call upon a friend for help. Your Chapter Officers know who does what. Call your Chapter leaders when you are stumped on the job and ask for help. More times than not, you will find a fellow member who is more than willing and able to assist you with your problem. If they can't help, kick it up to the Region Director, and they will find you the help you need. ASPE members treat other members just like family; it's our single most valuable membership benefit.

Happy Birthday ASPE members!

Curtis Clausing P.E.

Brian Goglia

Andrew Hackbarth P.E.

Randy Lorge

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PRESENTER'S CORNER

BY: BRIAN GOGLIA



Hello Everyone! Happy Holidays!

This month's presenter is Scott Young, an applications engineer with Zurn Elkay. At our upcoming meetings he will be presenting on Roof Drainage Design Considerations. Below you will find his answers to our spotlight questions, I look forward to seeing you all at our upcoming meetings!

1. What is the importance of ASPE to your company?

ASPE is essential to understand the landscape of the plumbing industry. It's a great way to meet engineers for whom we can provide solutions.

2. What three items would you like engineers and designers to take away from your presentation?

- a. The driving force behind roof drain design - the timeline & code/standard changes.
- b. What the impact of ponding on roof drain flow potentially could be.
- c. What the impact of drain body size/design on flow potential.

3. What additional tools does your company provide that helps engineers solve problems?

- a. An application index for product selection
- b. BIM content with families with adjustable parameters (think water closet carriers)
- c. Various sizing tools for all of our product offerings (interceptors, water hammer arrestors, etc.)
- d. Our New **ExpressSpec** package - this is a plumbing schedule per project type with hyperlinks to each product.

1. Are there any codes or updates that the engineering community should be aware of when dealing with your products or product category?

- a. **PDI G101** - Provisions for larger than 100 GPM interceptors to be tested - > potential alternative to large capacity gravity grease interceptors
- b. **ASME A112.6.8-22/CSA B79.8** - Trench drains now classified independently from floor drains - test not only the grate but also the system cast in concrete



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