

## Plumbing Design Classes

### DATE

Tuesday, May 17, 2016

### WHERE

Plumbing Industry Training Center  
*SEE map on back page*

### MEETING BEGINS

**5:00 PM - 5:30 PM** ← **Note**

[Networking / Table Top Viewing]

### DINNER

**5:30 - 6:00 PM**

**Cost:** ASPE, ASSE, MBPA Mbrs: NC  
Non-members: \$20.00 FOR DINNER

### MAY TECHNICAL SESSION

**6:00 - 7:30 PM**

**Topic: Storm Water Drainage  
System Design**

**Speaker: Ron George, CPD | Plumb Tech  
Design & Consulting Services, LLC**

### REGISTRATION REQUIRED

Respond to EventBrite Invite at  
<https://www.eventbrite.com/e/aspe-emc-may-2016-technical-program-registration-24899554237>

or Contact Brianne Hall, VP Technical:  
(248) 324-4780 - [bnhall@fch.com](mailto:bnhall@fch.com)

SEE INSIDE COVER FOR TABLE OF CONTENTS

## From Bill Grayzar, CPD President of ASPE EMC



As we come to the end of another great year of ASPE technical programs, I would personally like to thank all of the 2015-2016 ASPE EMC Board and the Chapter Members who supported me over the last two years and who helped ASPE EMC to provide top notch programs and events for the Chapter and its Members. I have truly enjoyed working with each and every one of the Board Members and I am inspired by the support and dedication they provided.

I would like to thank Theresa Green of MCA Detroit who continues to serve as the Chapter's newsletter editor and webmaster. She does a masterful job of editing our newsletters and continues to keep our website current with the latest information regarding the Society.

I would like to thank Pam Hartsell for stepping in as Administrative Secretary while John Nussbaum has been recovering. As the past Chapter Treasurer she also has been assisting Hank Koppelo our Chapter Treasurer with the Chapter finances. Thanks to their accurate record keeping, I am happy to report the chapter is financially stable.

I would like to thank Amanda Belcher who has been an instrumental part of increasing our Chapter membership over the past two years from 83 members to the current count of 106 members.

I would like to thank both Brianne Hall and Mark Lamberson for developing and implementing an electronic sign-up and attendance tracking for our technical sessions and the issuance of Continuing Education Units (CEU) for Chapter Members.

I would like to thank veteran board members Joe Hernandez, Dann Holmes and George Johnston who continue to serve the Chapter and are always providing valuable input and are willing to take on any task assigned to them.

I would like to thank our newest board members, Kristin Simoneaux and Theresa Allen, for regularly attending the 2015-2016 Chapter Board meetings and for providing valuable insight, for comment and service as well as for becoming nominees for positions on the 2016-2017 Board.

Finally, I would like to thank Messrs. Mike Melaragni, CPD and Paul Baker who once again prepared and presented a fantastic Plumbing Design Class Series on Cross Connection and Backflow throughout the year, in addition to our monthly technical programs.

Continued on Page 3

**Contents**

Program .....2  
 In The Know .....4  
 VP Technical Report .....4  
 VP Education Report .....5  
 ASPE Membership .....7  
 2016 Convention & Expo ..... 6 - 7  
 Past Meeting Sponsors & Attendees .. 12  
 Photos from past meeting. .... 13  
 Line Card Sponsors ..... 14 - 15

**ASPE 2016 CONVENTION & EXPO**

The industry's largest tradeshow for plumbing engineers, designers, contractors and installers. Taking place in Phoenix, Arizona on October 28 - November 1. See pages 8-9 for more information.

**ASPE IS ACCEPTING APPLICATIONS FOR THE ALFRED STEELE SCHOLARSHIP**

The Alfred Steele Scholarship has \$3,000 in available monies for qualified applicants. It is limited to ASPE members and their immediate families who have a GPA of 3.0 or higher, who are enrolled in or plan to enroll in an engineering program at a college, university, or technical school on a full-time basis. Contact Stacey Kidd for more information at (847) 296-0002, or email [skidd@aspe.org](mailto:skidd@aspe.org)

**PLUMBING TRAINING CENTER ASSE BACKFLOW RE-CERTIFICATION**

We'll be giving an ASSE Backflow Re-Certification class to any member who is eligible. If you're interested, please call the Training Center at (248) 585-1435 and get your name on the sign-up list for the next class training.

**MAY TECHNICAL PROGRAMS**

**TOPIC: STORM WATER DRAINAGE SYSTEM DESIGN**



**Speaker: Ron George, CPD**  
Plumb-Tech Design & Consulting, LLC

In this presentation we will review storm water drainage system design considerations and applicable code requirements. We will review the various design options for primary and secondary systems. We will learn how to properly design and size both primary and secondary gravity storm water drainage systems.

Mr. George is the president of Plumb-Tech Design & Consulting Services LLC and oversees all operations and oversees all design and consulting projects. Mr. George is very familiar with the plumbing and mechanical codes and standards and sits on numerous plumbing & mechanical codes and standards committees. He has over 32 years of experience designing plumbing and mechanical systems for several major architectural, engineering, and design & construction firms. He has served as an expert witness in many cases and performs forensic investigations all around the United States. He has designed plumbing, mechanical, and fire protection systems for building types including airports, stadiums, industrial manufacturing facilities, office buildings, commercial and retail buildings, hospitals, laboratories, prisons, jails, hotels, apartment buildings, military projects, high rise and educational facilities.

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## President's Report (cont. from page 1)

Bill Grayzar, CPD

After serving two years as your chapter president, I feel it is time to allow someone else the opportunity to serve as the chapter president. A changing of the guard, so to speak, will help to ensure that our chapter stays fresh with new ideas and concepts and remains current with the times. I have truly enjoyed serving as your chapter president and look forward to continuing to serve the Chapter in the role of V.P. Legislative for the 2016-2017 calendar year.

On behalf of the ASPE EMC, I would also like to thank all of the table top sponsors who supported us throughout the past two years. It is because of your continued support and sponsorship through table top displays, newsletter advertisements, fliers, etc. that we are able to present our technical programs and keep our Chapter financially stable.

A thank you also goes out to all of the speakers who were able to share their time and expertise to help the ASPE EMC provide one of, if not the best, technical program in the National Society.

The new ASPE EMC Board will begin planning for the 2016-2017 calendar year of technical programs and speakers on Saturday, June 11, 2016. If there is a technical session you would like to see presented in next year's program, now is the time contact one of the Board Members and give them your thoughts and ideas, or you can attend the first 2016-2017 summer planning session on Saturday, June 11, 2016 and present your ideas in person. As always we welcome and encourage any of our Chapter Members to attend the open door summer planning session. The meeting will begin at 8:30 AM and is expected to conclude between 1:00 PM and 2:00 PM.

The meeting will be held at the DiClemente Siegel Design Inc. office in Southfield, Michigan, located at 28105 Greenfield Road, Southfield, Michigan.

As members of the Eastern Michigan Chapter of ASPE, I encourage each of you to continue to express your ideas, opinions, concerns, questions, etc... to the Chapter Board, after all, it is your chapter and we are here to serve you, as members and represent you as part of the National Society of ASPE.

Thanks to all of the members who took the time to participate in our electronic election of the 2016-2017 chapter officers. The new Board Officers, for the 2016-2017 calendar year, will be officially sworn in at the May meeting, which is scheduled for May 17, 2016.

The May meeting will be held at the Plumbing Industry Training Center in Troy, MI. Dinner and vendor table top displays and discussions will begin at 5:00 PM followed at 6:00 PM by our technical program on Storm Water Drainage System Design featuring Mr. Ron George, CPD, President of Plumb-Tech Design & Consulting Services, LLC

I have thoroughly enjoyed serving as your chapter president and I look forward to seeing you at the Plumbing Industry Training Center on May 17, 2016 and perhaps at the 2016-2017 program planning session on June 11, 2016.

*Bill*



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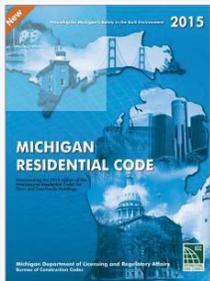
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## IN THE KNOW



### 2015 MI RESIDENTIAL CODE BOOK

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Code Study & Development Group of SE MI is now taking pre-orders

Item 3100S15MI

Member price \$111.00 per copy + shipping

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## VP Technical Report

### Brianne Hall, P.E., LEED AP BD+C, CPD



Hello!

We are one meeting away from completing the 2015-2106 technical programs! Our design series on cross connections and backflow prevention ended in April and we hope that you found this series of classes to be beneficial. If you have any suggestions for design classes or technical sessions

for next year, please either share them with any board member, include them on the program evaluation forms, or attend our June planning session (date TBD).

The final design class covered reduced pressure principal backflow preventers (ASSE 1013). Reduced pressure principal backflow preventers can be used for high or low hazards, protect against backpressure or back-siphonage, and can provide containment or isolation.

Potable water systems are required by code to be protected by a reduced pressure backflow preventer or reduced pressure detector assembly. There are several installation requirements for the devices, such as a minimum of 12" above grade to the lowest point of the assembly to allow for access and any assembly that is installed 5' above grade must be provided with a platform that will support a person. The assemblies have the potential to discharge a large amount of water and drain lines must be provided and sized in order to accommodate the potential discharge.

The technical session on Medical Gas Updates was provided by Mark Allen of BeaconMedaes. NFPA 99 – 2015 has a small number of changes due to the limited amount of time between the release of the 2012 version and the start of the revision period for the 2015 version. It is anticipated that more changes will be included within the 2018 version.

One item discussed within the presentation is Section 1.3.4 of NFPA 99 -2015. This requires that the governing authority of

the facility must designate the category of spaces in the facility. The categories apply to both activities and visitors. The requirements for piped gases for each category have not changed, however the categories and their requirements have now been included within Chapter 5.

Also within Chapter 5, the allowable methods for alarms and communication have been more clearly defined. Section 5.1.9.2.3.2 provides the system requirements if communication is achieved by means other than wire.

Regarding the usage of valves within piped gas systems, Section 5.1.4.1.6 has now allowed for the usage of valves other than ball valves. The valves must meet pressure drop requirements as stated within that section of the code.

Mark also discussed NFPA 99 – 2018. This version is currently in the public comment period of the first draft, which ends on May 16th. Mark reviewed several of the proposed changes that may be included within NFPA 99 -2018.

Our final technical session, on May 17th, will be presented by Ron George, CPD on the topic of Storm Water Drainage System Design. Registration for the May session at the following link:

<https://www.eventbrite.com/e/aspemc-may-2016-technical-program-registration-24899554237>

Please contact me at [bnhall@ftch.com](mailto:bnhall@ftch.com) or 248-324-4780 with any questions, suggestions or comments.

# VP Education Report

Mark Lamberson, CPD



Recently, I have been asked some practical questions about cleanouts. The minimum requirements established by the code can be misinterpreted or misunderstood. During the first five years of my career, I spent countless hours cleaning plugged sewers and can tell you some of the findings I have had in the field when using cleanouts for what they are intended for... cleaning out a plugged sewer line.

The first issue that I find on new projects is the use of twelve inch diameter sewers in commercial underground designs. Once the sewer is sized above ten inch diameter, it must have manholes at every change in direction and reduction in size. This means that reducing wyes are not acceptable and any change in direction requires a manhole to be installed until the pipe reduces to ten inch. There are not many building owners that like having a manhole cover in their new floor. I will typically request that the underground piping be divided into two smaller lines to get around this issue.

The next issue I have been asked about is the overuse of cleanouts. We see design drawings that show a cleanout at a change in direction, and then another change in direction ten feet away with another cleanout represented. The code does state that cleanouts are required at every change in direction, but it also allows for an exemption if another cleanout is within forty feet.

I will also tell you that a cleanout installed in a hung sewer main will probably never be used to clean the sewer. Usually, they are used as points of connection for new work. The logic behind this is very simple. If I am called to clean a sewer that is plugged, I would have to be out of my mind to go four or five feet below the flood level rim of the fixtures and open a cleanout. I would probably damage anything on the floor below me, I would probably be covered in raw sewage, and there is not an easy way to get the flopping sewer machine cable from the floor elevation

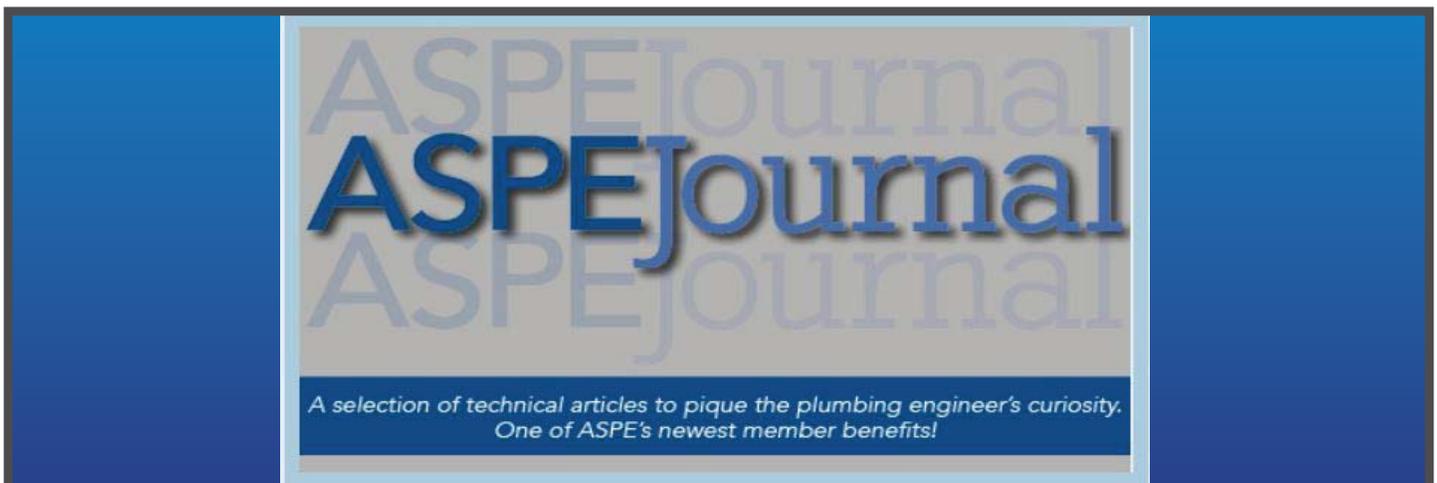
up to the cleanout in the ceiling without being beaten by it or creating a bigger mess.

The right way to do this would be to locate a cleanout above the water level in the piping system. This may include removing a water closet or locating a stack upstairs. This can even include going up on the roof and running the machine down a vent stack.

Another item to note is the length of sewer cable that I used to carry on my service van. I had two hundred feet minimum at all times, and I have run three hundred feet on occasion, if necessary. The complications associated with running two or three hundred feet of cable are not ideal, but it is an option if the blockage is that far down the line. Knowing this, it is far more advantageous to install a few well placed cleanouts instead of a multitude of useless ones in the ceiling below.

Another problem I have seen comes with a no hub cast iron system. We prefer to install no hub blind plugs, or caps, in the place of a cleanout. I have been forced to replace these with cast iron cleanout adapters and brass plugs by commissioning agents in the past. The issue with this is the brass cleanout plug will corrode just enough to not be easily removable. When this happens, I loosen the no hub coupling and pull the whole assembly off. It sounds a lot like loosening the no hub coupling to remove the blind plug, doesn't it? Also, cleanout plugs are just one more place to have a leak.

The code minimums really are functional if the locations of the cleanouts are thought out in advance. We haven't even touched on the use of sewer jettors or cameras to further enhance their use. The bottom line though, is that this is my opinion. If you aren't sure about what is acceptable in a locale, ask your contractor or the local inspector for their opinion.



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CONVENTION: OCT 28 - NOV 2 | EXPO: OCT 31 - NOV 1

American Society of Plumbing Engineers | [aspe.org/expo](http://aspe.org/expo)



<b>WHAT:</b>	<p>Advancing plumbing engineering for more than 50 years, the 2016 ASPE Convention and Exposition is the ONLY industry event designed to showcase innovations in plumbing system design—where plumbing engineers, designers, specifiers and contractors can learn about the latest plumbing products, services, and design techniques.</p> <p>Combining an extensive line-up of professional development sessions designed exclusively for plumbing industry professionals with the largest plumbing product tradeshow in the country, the 2016 ASPE Convention and Exposition is the must-attend event of the year.</p>
<b>WHO:</b>	<p>Attendees include:</p> <ul style="list-style-type: none"> <li>• Designers</li> <li>• Engineers</li> <li>• Specifiers</li> <li>• Contractors</li> <li>• Wholesaler/distributors</li> <li>• Architects</li> <li>• Master plumbers</li> <li>• Students</li> </ul>
<b>WHERE:</b>	<p>Phoenix Convention Center in Phoenix, AZ</p> <p>ASPE has reserved blocks of rooms at special rates for attendees at the following hotels:</p> <ul style="list-style-type: none"> <li>• Sheraton Grand Phoenix</li> <li>• Hyatt Regency Phoenix</li> </ul>
<b>WHEN:</b>	<p>Convention: October 28 – November 2, 2016</p> <p>Exposition:</p> <p>October 31, 2016 11:00 am – 5:00 pm</p> <p>November 1, 2016 10:00 am – 3:00 pm</p>
<b>WHY:</b>	<p>The ASPE Convention and Exposition is a one-of-a-kind event showcasing the largest display of plumbing design products and services available.</p> <ul style="list-style-type: none"> <li>• Attendees benefit from extensive education in the technical sessions and on the show, with the ability to earn up to 17.25 hours of continuing education in just one trip.</li> <li>• Eleven exclusive show floor hours allow attendees to ask questions and engage with companies about cutting-edge products and solutions that are accelerating the industry to new heights and greater possibilities.</li> <li>• An enhanced mobile app for 2016 makes it even more efficient to make the most of your attendee experience.</li> <li>• Catch up with plumbing engineering design innovators and peers at numerous networking events including a special party at the Corona Ranch &amp; Rodeo Grounds. Join your fellow attendees and exhibitors for the ultimate Arizona experience that includes music, drinks, food, and dancing!</li> </ul>
<b>WEBSITES &amp; LINKS:</b>	<p>2016 ASPE Convention and Exposition: <a href="http://www.aspe.org/expo">www.aspe.org/expo</a></p> <p>ASPE <a href="http://www.aspe.org">www.aspe.org</a></p> <p>Facebook: <a href="https://www.facebook.com/AmericanSocietyofPlumbingEngineers">https://www.facebook.com/AmericanSocietyofPlumbingEngineers</a></p> <p>Twitter: <a href="http://twitter.com/ASPEorg">http://twitter.com/ASPEorg</a></p> <p>LinkedIn: <a href="http://linkd.in/ASPELinkedIn">http://linkd.in/ASPELinkedIn</a></p> <p>#ASPEflowswest</p>

**NOTE: Managers and Employees can use ASPE resources to calculate the ROI and quantify the benefits of attending the 2016 ASPE Convention and Exposition - follow this [link](#) to access this resource or go to <https://www.aspe.org> - click on conferences & meetings then click on 2016 convention & expo then click on attendees - justify your attendance.**

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# **THANK YOU TO THE INDIVIDUALS AND SPONSOR(S) WHO ATTENDED THE MAY 2016 MEETING OF THE ASPE EASTERN MICHIGAN CHAPTER!**

## **MAY INDIVIDUAL ATTENDEES**

Jason Affolter  
Jesse Allen  
Theresa Allen  
Paul Baker  
Patrick Baker  
Alondre' Barry  
Larry D'Ascenzo  
Mike Engels  
Ron George  
William Grayzar CPD  
Brienne Hall P.E., CPD, LEED AP BD+C  
Edwin Hawley  
Jeff Henry  
Joseph Hernandez CPD  
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at [bnhall@ftch.com](mailto:bnhall@ftch.com) or call (248) 324-4780.**

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# MAY 2016 MEETING PHOTOS



Mark Allen of Beacon Medaes presents Technical Program *Reduced Pressure-Zone Principle Assemblies*.



ASPE EMC President Bill Grayzar presents the Certificate of Appreciation to presenter Mark Allen of Beacon Medaes.

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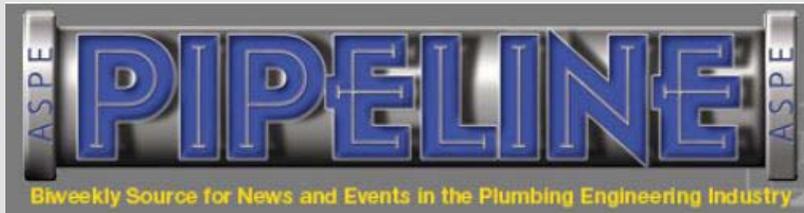
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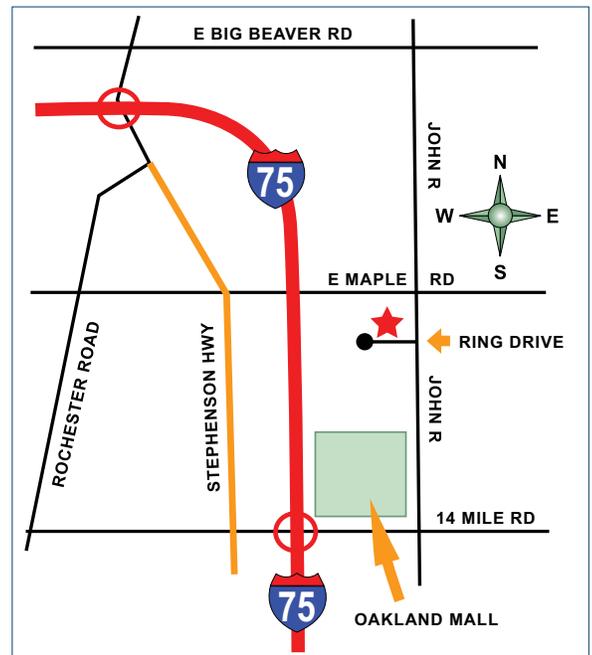
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### Map to the Plumbing Industry Training Center 1911 Ring Drive - Troy, MI

West of and off John R, north of 14 Mile Rd.



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