



Anyone involved in the plumbing industry would benefit from attending these very informative classes. Knowledgeable and industry-wise presenters teach and interact with attendees in a relaxed and friendly atmosphere. Most of the Technical sessions take place at one of the premier training centers in southeastern Michigan, the Metropolitan Detroit Plumbing Industry Training Center in Troy, Michigan. **We will be providing hybrid meetings (offered online via ASPE's Education portal and in-person) for the duration of this Program Year; all sessions will be recorded and links to recordings can be found in the Newsletters.**

Jointly sponsored by the Eastern Michigan Chapter of the American Society of Plumbing Engineers (ASPE) and American Society of Sanitary Engineering - Michigan Chapter (ASSE), the programs are designed to give a well-rounded learning experience. Classes are open to anyone interested. Class cost is \$25 per person to non ASPE and ASSE members. The Eastern Michigan Chapter of ASPE will be hosting programming from 5:00 PM to 7:30 PM with dinner taking place between 6:00 - 6:30 PM. Tabletop vendors are encouraged to introduce products with the latest technologies. **Each sponsor has the opportunity to provide a five minute presentation at the front of the classroom (and have a slideshow for our virtual participants).**

Pre-registration is required. Contact Theresa Card, ASPE EMC VP Technical, preferably by responding to ASPE EMC's Eventbrite invitation to confirm your in-person attendance by the Friday prior to class day. Visit our web site at <http://eastern-michigan.aspe.org> for a map to the Training Center or view the map on the last page of this publication. Virtual attendees will be required to register for the program from ASPE's Education portal: <http://education.aspe.org>. You must be signed in to register. Non-members must request an account.

PLEASE NOTE: Topics, times and locations are subject to change, depending on the availability of the presenter or unpredictable circumstances. Check our web site for the most up-to-date information.

EASTERN MICHIGAN PROGRAM

SEPTEMBER 14, 2021 - HYBRID MEETING (IN-PERSON & ONLINE)

- 5:00 PM - 6:00 PM** Right Sizing Plumbing Systems - Overview
- 6:00 PM - 6:30 PM** Dinner and Vendor Table Top Presentation
- 6:30 PM - 7:30 PM** Plumbing 101

DESIGN CLASS

Program Presenter : Alan Deal, PE (President, Performance Engineering Group, Inc.)

The convergence of Net Zero, de-carbonization of buildings, and the electrification of all building HVAC systems are going to force major changes to the way that new buildings are designed and constructed. The tools used to design building systems will need to be re-evaluated and updated to optimize the amount of materials and natural resources to construct facilities. A comparison of design tools both old and new as it relates to plumbing system design will reveal how significant these changes can be.

TECHNICAL SESSION

Program Presenter : Bill Grayzar, CPD, V.P. Legislative - ASPE EMC (Mechanical Engineer, DiClemente Siegel Design)

Whether you are new to plumbing design, or just looking to refresh your skills, this introductory course has something for you. Join us for an informative lunchtime presentation on domestic water systems, the codes that regulate them and the standard practices used in designing them.

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EASTERN MICHIGAN PROGRAM *continued*

OCTOBER 12, 2021 - HYBRID MEETING (IN-PERSON & ONLINE)

- 5:00 PM - 6:00 PM** **Water - Metered Flow vs Traditional Sizing & Pipe Sizing Implications**
6:00 PM - 6:30 PM **Dinner and Vendor Table Top Presentation**
6:30 PM - 7:30 PM **Utility Incentives - Panel Discussion**

DESIGN CLASS

Program Presenter : Alan Deal, PE (President, Performance Engineering Group, Inc.)

Description: 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.

TECHNICAL SESSION

Panel Presenters : A panel discussion led by Pam Hartsell, CPD, PMP

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.

NOVEMBER 9, 2021 - HYBRID MEETING (IN-PERSON & ONLINE)

- 5:00 PM - 6:00 PM** **Right Sizing Plumbing Systems – Water Heaters**
6:00 PM - 6:30 PM **Dinner and Vendor Table Top Presentation**
6:30 PM - 7:30 PM **Submersible Pumps - Types, Applications and Sizing**

DESIGN CLASS

Program Presenters : Mark Daniszewski (Northeast Regional Sales Manager for Intellihot)

This presentation will cover right sizing domestic water heaters taking into account new codes, standards and industry recommendations.

TECHNICAL SESSION

Program Presenters : Adam Flint, CPD (Midwest Regional Sales Manager, Liberty Pumps)

This presentation will cover everything you need to know about submersible pumps! We will cover the different types of pumps, their applications and how to size them. The presentation will also be sure to clarify why smaller piping is used for pumped waste vs gravity waste as well as an overview of control panels and floats.

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EASTERN MICHIGAN PROGRAM *continued*

DECEMBER 14, 2021 - HYBRID MEETING (IN-PERSON & ONLINE)

- 5:00 PM - 6:00 PM** **Standpipes & Fire Pumps**
6:00 PM - 6:30 PM **Dinner and Vendor Table Top Presentation**
6:30 PM - 7:30 PM **Fire Protection - Dry Systems Components and Sizing
(Compressed Air vs Nitrogen Dry Systems)**

DESIGN CLASS

Program Presenter : Karl Wiegand, P.E. (Application Engineer, Victaulic)

This presentation will cover fire pump and standpipe basics including types of standpipes, water demand for standpipe systems and hose allowances, and how to size fire pumps.

TECHNICAL SESSION

Program Presenter : Karl Wiegand, P.E. (Application Engineer, Victaulic)

This presentation will cover dry pipe systems basics: the components, sizing and system considerations. We will also touch on nitrogen usage in dry pipe systems and how it compares to using compressed air.

JANUARY 11, 2022 - IN-PERSON ONLY

**** OFFSITE, JOINT MEETING, with ASPE AND ASHRAE ****

at the Petruzzello's Banquet and Conference Center, 6950 Rochester Rd, Troy, MI, 48085

- 5:00 PM - 6:00 PM** **Tech. Session #1 - New 2018 MI Plumbing Code**
6:00 PM - 7:00 PM **Social Hour and Dinner**
7:00 PM - 7:15 PM **ASHRAE & ASPE Chapter Meetings**
7:15 PM - 8:00 PM **Tech. Session #2 - MI Code Promulgation Process and Schedule**

TECHNICAL SESSION #1

Program Presenter : Matthew A. Gay (Lead Mechanical Inspector for the State of Michigan Bureau of Construction Codes)

This session will address the new Michigan Plumbing Code that went into effect September 15, 2021.

TECHNICAL SESSION #2

Program Presenter : Jonathon Paradine (Chief of the Building and Permits Division for the State of Michigan Bureau of Construction Codes)

This session will discuss the general code promulgation process and schedule, notably as they pertain to the forthcoming Energy and Mechanical Codes.

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EASTERN MICHIGAN PROGRAM *continued*

FEBRUARY 8, 2022 - HYBRID MEETING (IN-PERSON & ONLINE)

- 5:00 PM - 6:00 PM HVAC Cross Over! Right Sizing Hydronics
6:00 PM - 6:30 PM Dinner and Vendor Table Top Presentation
6:30 PM - 7:30 PM Laboratory High Purity Gas Systems

DESIGN CLASS

Program Presenter : Alan Deal, PE (President, Performance Engineering Group, Inc.)

When designing and updating boiler systems some game changing ideas can be applied. The interconnectivity of all the devices in a heating system will directly affect the operation and performance efficiency of a heating system. Only focusing on a single component like the boilers, pumps, or system control can lead to results that can be disappointing and may be unnecessarily expensive. Efficiency of the heating system is not the direct result of focusing on one component, but rather the entire heating plant operation. By carefully reviewing three key system metrics, a holistic plan can be created to maximize results.

TECHNICAL SESSION

Program Presenter : Kevin Coyne (Specialty Gas Salesman/Manager for Praxair)

This presentation will focus on modes of supply, piping design, handling and storage of Inert, flammable and oxidizing gases.

MARCH 8, 2022 - HYBRID MEETING (IN-PERSON & ONLINE)

- 5:00 PM - 6:00 PM Storm Water Retention & Reuse - Where Applicable & How Decide
6:00 PM - 6:30 PM **NASPE Race Registration and Weight-In**
6:00 PM - 6:30 PM Dinner and Vendor Table Top Presentation
6:30 PM - 7:30 PM Interceptors - Types, Applications and Sizing
7:30 PM - Completion **NASPE Race (approx. 8 PM)**

DESIGN CLASS

Program Presenter : Michael Gauthier (Highland Tank and Manufacturing)

Development continues to pose environmental problems for receiving waters. However, Green Technology for storm water management has given rise to more efficient methods of pretreatment, storage and discharge of storm water runoff. LEED and LID (Low Impact Development) promote the use of innovative technologies to combat pollution from runoff by utilizing state of the art treatment methods to meet the strict discharge requirements set forth by the US EPA. Rainwater harvesting is at the for front of this BMP as it can combine primary storm water pre- treatment, storage capacity for channel/flood protection, tertiary filtration/disinfection and reuse for non-potable. This presentation outlines how the development of a decentralized water treatment system can aid in both the reduction of pollutants into our lakes, rivers and streams but also how harvested water can supplement our dwindling potable water supply.

TECHNICAL SESSION

Program Presenter : Silvano Ferrazzo (Zurn – Site Works)

This presentation will cover the types of interceptors used in plumbing systems, where they are required and desired, and how to size them appropriately so they not only meet code but function correctly to protect the municipal systems.

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EASTERN MICHIGAN PROGRAM *continued*

APRIL 12, 2022 - HYBRID MEETING (IN-PERSON & ONLINE)

5:00 PM - 6:00 PM **Right Sizing Hot Water Return Design - Part 1**

6:00 PM - 6:30 PM **Dinner and Vendor Table Top Presentation**

6:30 PM - 7:30 PM **Right Sizing Hot Water Return Design - Part 2**

DESIGN CLASS - Parts 1 & 2

Program Presenter : Christoph Lohr (Strategic Initiatives and IAPMO)

This presentation and workshop will cover considerations when selecting hot water temperature to include reviewing hot water system routing options, understanding the limitations of “Rules of Thumb” HWR Sizing Methodologies, learning about the “True” Heat Loss Sizing methodology, understanding Hardy-Cross Method and Parallel Piping Systems. We will also review balancing valve types and limitations and review criteria for selecting a recirculation pump.

MAY 24, 2022 - HYBRID MEETING (IN-PERSON & ONLINE)

NOTE: **THIS IS THE LAST TUESDAY OF THE MONTH** vs the second Tuesday, as normally scheduled.

5:00 PM - 7:30 PM **Trends in Water Design**

DESIGN & TECHNICAL TOPIC

Program Presenter : Christoph Lohr (Strategic Initiatives and IAPMO)

This presentation will help engineers of all experiences and background understand what plumbing resiliency is, and how it applies to domestic water design. We will address how pipe sizing impacts water quality and why updating the Hunter’s Curve is one of the most important action items for the industry. Christoph will challenge us to consider possible new design approaches to build in more resiliency into domestic water system design and review some of the latest trends coming to market and discuss potential applications.

SPEAKERS *continued*



ALAN DEAL, PE - Performance Engineering Group, Inc.

Alan 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.



WILLIAM A. GRAYZAR, CPD, GPD - DiClemente Siegel Design

Mr. Grayzar is a past president of the Eastern Michigan Chapter of ASPE and currently serves as the chapters V.P. Legislative. He has over 35 years of experience in architecture and engineering. Employed with DiClemente Siegel Design Inc. for over 20 years, Bill continues to enhance his system engineering skills through additional vocational field training. Bill has an excellent working knowledge of Michigan's current building codes and regulations. Bill holds an Associate's Degree of Architectural Technology from Delta College and certifications in Plumbing Design and Green Plumbing Design from ASPE. Bill is active with the National Society of ASPE serving on numerous committees. Bill also serves as the current President of the Code Study and Development Group of Southeast Michigan and is a member of National Fire Protection Association. Bill received the Michigan Chapter of ASSE award as Engineer of the Year in 2013.



MARK DANISZEWSKI - Intellihot

Mark is the Northeast Regional Sales Manager for Intellihot. Mark has a B.S. in Mechanical Engineering from Rutgers University in New Brunswick, NJ, and he has over 20 years of industry experience. He is experienced as an MEP consulting engineer, a manufacturer's Rep, as well as an RSM for multiple manufacturing companies.



ADAM FLINT - Liberty Pumps

Adam graduated from high school in 1995 and went directly into the US Army at Ft. Hood. He served 10 years (4 years active duty and 6 years with the National Guard). He has been with Liberty pump since 1998 – starting in the maintenance/service department then moving to technical support, marketing and finally to Regional Sales Manager. Adam has directed many factory tours and countless training sessions with contractors, engineers and wholesalers. He possesses a wealth of pump knowledge including products, applications/sizing, and troubleshooting! Adam has (3) daughters and when he is not working he enjoys a nice round of golf.



KARL WIEGAND, PE - Victaulic

Karl works in the fire protection application engineering group at Victaulic where his primary duties consist of providing training, providing technical support, researching and development, and representing Victaulic's interests within the fire protection industry. Karl holds a Professional Engineering license in the field of Fire Protection Engineering and is a graduate of Worcester Polytechnic Institute with a Bachelor of Science degree in Mechanical Engineering and a Master of Science degree in Fire Protection Engineering. Over the last twelve years Karl has held positions on NFPA 15, NFPA 16 NFPA 24, and NFPA 750 as well as AWWA's Backflow, Water Metering, and Fire Protection committees and Underwriters Laboratory's UL199 STP. Karl continues to represent the sprinkler industry on NFPA 101, 820, and 5000 and Underwriters Laboratory's UL262 STP and the NFSA's Engineering and Standards Committee.

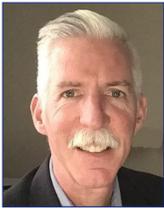
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SPEAKERS *continued*



KEVIN COYNE - Praxair

Kevin has been in the gas industry for over 28 years and 17 years as a Specialty Gas Salesman/Manager for Praxair. The last 10 years Kevin has worked for Concoa as Territory Sales Engineering covering 16 states. Concoa is the largest independent Gas equipment supplier in the US. We are a made in America company located in Virginia Beach, VA. His main focus at Concoa is to help distributors and end users with selecting the correct gas equipment for their applications.



MICHAEL GAUTHIER, Highland Tank and Manufacturing

Michael has over 27 years of experience in the water/wastewater industry. Employed with Highland Tank for over 20 years Michael has been instrumental in the development and engineering of new products for the waste-water division. Highlights include development of Highland Tank's HighDRO line of water reuse systems. Michael is also co-author of Vol.- 4 ASPE Plumbing Engineering Design Handbook Chapter 8: Grease Interceptors.



SILVANO FERRAZZO, Zurn – Site Works

Silvano Ferrazzo with Zurn Industries Site Works team has over 25 years of experience in Engineering, Product Design, Commercial Development, and Environmental Regulatory development.

Silvano is an active Board Member of PDI – the Plumbing and Drainage Institute - as well as ASPE, and participates in CSA and UPC Committees in both the US and Canada. He is a certified presenter for ASPE Continuing Education Credits.

With combined North American and International experience, Silvano speaks authoritatively on Interceptor and Trench Drain issues related to wastewater management, and regulations affecting collection systems and employee health and safety. As a Chemical Engineer, he brings a down to earth approach to shed light on current industry trends and solutions.

Since joining Zurn's Site Works team Silvano has been instrumental in providing leadership in sales, education and training, and innovative commercial development solutions to better serve the engineering community in projects ranging from oil and grease management to flow through trench drain innovations.



CHRISTOPH LOHR, P.E., CPD, LEED AP BD+C, ASSE 12080 - Strategic Initiatives, IAPMO

Christoph Lohr is IAPMO's Vice President of Strategic Initiatives. As part of his duties he provides industry leadership through participation in strategic industry initiatives, and provide technical support to all IAPMO's business units as needed. He has over a decade of experience in designing plumbing systems for healthcare, laboratory, hospitality, sports, and university projects. He is a licensed professional engineer (PE) in six states, has his Certified-in-Plumbing-Design (CPD) certification from ASPE, is a LEED AP BD+C, and has his ASSE 12080 Legionella Mitigation Specialist designation. He has spoken at the ASPE 2018 Convention, Legionella 2018 and 2019 conferences, HITS Consortium, NIBS, and the ACEEE Hot Water Forum and has written over 50 articles and blog posts on the topics of water, legionella, medical gas, and leadership. Christoph's professional activities in the industry extend into multiple committees including ASPE Phoenix Chapter, ASPE Society, ASPE Legionella Working Group, ASHRAE Committees, PIPE Trust of Arizona, AWWA Plumbing Premise Committee, among others. He consistently looks to find long-term, holistic solutions that positively impact public health and safety, particularly in the world of water and plumbing. He is a distinguished graduate from the Virginia Military Institute, with a Bachelor of Science in Mechanical Engineering. Christoph grew up in Rochester, Michigan.

VENDOR CLASSES / TABLETOPS

If you are interested in having one or more table top display(s) at one of our meetings, please contact Pam Hartsell at: (248) 988-4718 or e-mail: phartsell@sesnet.com

TABLE TOP SPONSORSHIP PRICING

Each sponsor has the opportunity to provide a five minute presentation at the front of the classroom (and have a slideshow for our virtual participants).

ASPE Members

- \$200.00 for the 1st table per meeting/per vendor
- \$150.00 for each additional table per meeting/per vendor

Non-Members

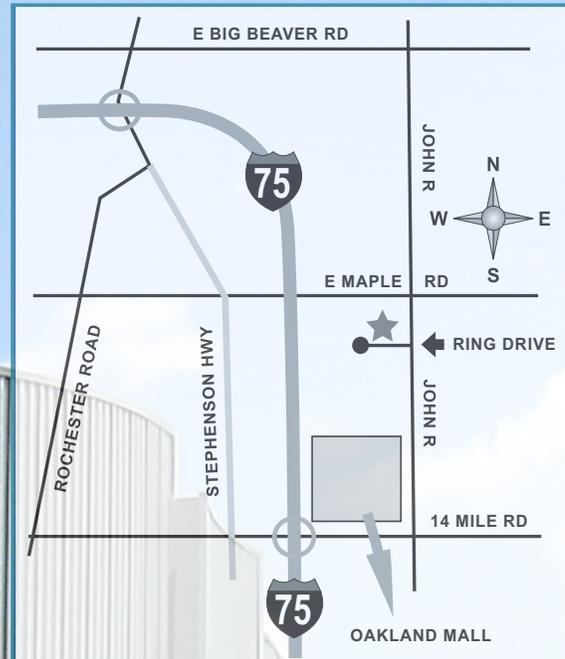
- \$250.00 for the 1st table per meeting/per vendor
- \$200.00 for each additional table meeting/per vendor

If a vendor purchases table tops for 3 meetings during the year, a 4th meeting table top will be provided for free.

LOCATION

ALL Programs take place at the Plumbing Industry Training Center in Troy, MI, unless otherwise stated in the program. Please check the website for the most current information.

1911 Ring Drive, Troy, MI 48083



ASPE MEMBERSHIP

The Value and Benefits of Membership

- ASPE Plumbing Engineering Design Handbook
- Monthly subscription to Plumbing Engineer Magazine
- ASPE Report (Plumbing Engineer Magazine)
- Biweekly ASPE Pipeline e-newsletter
- Members-only ASPEnet access (includes access to ASPE PEDH chapters)
- Publication and education program discounts
- ASPE Biennial Convention and Engineered Plumbing Exposition (even years)
- ASPE Biennial Technical Symposium (odd years)
- Technical seminars and workshops
- Access to earn continuing education units (CEUs)
- Technical books and manuals (specific to the profession of plumbing engineering)
- Professional certification / recertification
- Continuing education opportunities in Plumbing Engineer Magazine
- Alfred Steele Scholarship Program
- Local chapter affiliation
- Monthly chapter meetings and technical seminar opportunities
- Networking opportunities with plumbing engineers worldwide
- Leadership opportunities (national and chapter boards of directors and committees)

National ASPE Website: www.aspe.org

Local Michigan Chapter: http://aspe.org/Eastern_Michigan

Please forward this to others of interest.

2021-2022 ASPE-EMC Board

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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.

