ASPE American Society of Plumbing Engineers
EASTERN MICHIGAN

APRIL 2018
NEWS*
American Society of Plumbing Engineers
American Society of Sanitary Engineering

Serving our membership since 1975 | http://eastern-michigan.aspe.org | Vol. 21, Issue 8

APRIL MEETING AGENDA

DATE:

TUESDAY, APRIL 10, 2018

"PASSING GAS"

WHERE:

Plumbing Industry Training Center
(map on back page)

4:30 PM - 5:30 PM - DESIGN CLASS

Civil Interactions

Presenters: Tarolyn Buckles, President and CEO of Onyx Enterprise, Inc. and Allan Schneck, P.E.

5:30 - 6:00 PM - DINNER

Dinner, News & Announcements, Table Top Vendor Product Presentations and Displays

6:00 - 8:00 PM - TECHNICAL SESSION

Natural Gas
(Including material considerations)

Presenter: Bill Grayzar | DiClemente Siegel Design Inc.

REGISTRATION REQUIRED
https://www.eventbrite.com/e/aspe-emc-april-2018-technical-program-tickets-37149337669

SEE INSIDE COVER FOR TABLE OF CONTENTS

Cost: ASPE, ASSE, MBPA Mbrs: NC
Non-members: $20.00 FOR CLASS

From Brianne N. Hall, P.E., CPD, LEED AP BD+C, GGP, President of ASPE EMC

Hello!

Congratulations to the winners of our annual NASPE races! Theresa Allen took first place with a time of 3.43, Mark Lamberson and Adrienne Bennett took 2nd and 3rd with times of 3.57 and 3.62. The races are held every March to celebrate World Plumbing Day, it is never too early to start working on your car for next year!

Another month has flown by and only 2 monthly technical programs remain for the year. At our May meeting, the new 2018-2019 ASPE Eastern Michigan Chapter board members will be sworn in. All members will be receiving an email in the next couple weeks containing a link to vote for the new board members. Please take a few minutes to submit your ballot!

The board will be meeting in June to discuss the technical topics for next year and invites anyone interested in participating in the discussion. If you have ideas for either the design class or technical program, please submit them to any board member or include them on your April or May program evaluation form.

Did you know that anyone can submit changes to the International Plumbing Code and Uniform Plumbing Code? We are currently in the 2021 International Plumbing Code cycle and the proposed changes were published at the end of February. These proposed changes will be discussed at the Code Committee Action Hearings April 18-20th in Columbus, Ohio. Jeremy Brown, Ron George, Bill Grayzar, Bill Weidendorf and I will be attending the hearings to speak about the proposed changes this year. If you are interested in learning more about how you can impact the code language, speak with any member of The Code Study and Development Group of Southeastern Michigan. Our members can provide guidance on how you can submit proposed changes in the future and when the next cycle begins. Additional information about the current code cycle can be found here: https://www.iccsafe.org/codes-tech-support/codes/code-development/current-code-development-cycle/

The annual ASPE Convention and Exposition will be held in Atlanta, GA on September 28th-October 3rd. The website for the convention is being populated with information including a tentative schedule. Registration is anticipated to open this month.

Continued on page 2

Chapters are not authorized to speak for the Society.

ASPE American Society of Plumbing Engineers
EASTERN MICHIGAN NOTICES

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Reach out to Our New Members and Sponsors!

Mark Your Calendar -The Michigan Backflow Prevention Association is holding their Annual Conference!

May 9, 2018

Get Your REUs, CEHs, and CEUs!

Don't forget that the design classes held monthly from 4:30 - 5:30 PM, can be counted towards your professionally required REUs, CEHs, and CEUs.these one-hour design classes will run from September - May.

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

President's Report (cont. from page 1)

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

For more information on the annual convention, go here: http://expo.aspe.org/ASPE2018/Public/Enter.aspx

Please contact me with any comments or questions!

bnhall@ftch.com or (248) 324-4780

MICHIGAN BACKFLOW PREVENTION ASSOCIATION
Annual Conference • Wednesday, May 9, 2018
Plumbing Industry Training Center • 1911 Ring Rd • Troy, MI 48083

SCHEDULE
7:30am – 8:30am Registration / Continental Breakfast
8:30am – 4:30pm Conference

AGENDA
- Existing Fire Systems: Are They a Hazard and How Do We Address Them?
- Surveying a High Hazard Facility
- Residential Backflow - The Time is Now
- Michigan Dept of Environmental Quality Update
- ABPA + ASSE Updates
- Annual MBPA Business Meeting

CONTINUING EDUCATION CREDITS
A total of 0.7 Michigan DEQ Technical CEU's will be available for those attending all day.

BONUS
Every current MBPA member that attends the conference can bring in one backflow test kit for on site certification.

please go to our website
www.michiganbackflowpreventionassociation.com
for Conference Details and Registration Information

IMPORTANT: In order to keep you informed of the coming changes in the world of Cross-Connection Control, it is imperative that we have your current contact information. Please send an email to **KapciaMR@troymi.gov** with your name / company / address / phone / email address. If you don't have email access, call Matt Kapcia at 248.524.3398 and leave a message with your contact information.
Thank you for your commitment to Safe Drinking Water!

NEW MEMBER(S)
~ WELCOME ~

MICHAEL JONES

APRIL DESIGN CLASS

TOPIC: Civil Interactions

Presenter: Tarolyn Buckles

President and CEO of Onyx Enterprise

Onyx Enterprise, Inc. is a certified woman and minority owned engineering consulting firm headquartered in Detroit, Michigan and an office in Cleveland, OH. Onyx will be expanding geographically with offices opening soon in Atlanta, GA and Dallas, TX. Ms. Buckles is a graduate of the University of Michigan Civil Engineering Structures. She has worked 29 years in the civil engineering industry.

Presenter: Allan Schneck, P.E.

Allan has spent over 30 years in the Civil Engineering industry attaining multifaceted experience in the private sector as well as State, County and Local government. He has worked on a variety of civil projects including: water distribution, waste water treatment, SCADA, transportation and non-motorized facilities. Allan holds both a Bachelor's of Science in Business Administration as well as Civil Engineering along with a Master's of Science in Civil Engineering.

The goal of the class is to give an overview of Civil Engineering and coordination of design efforts of Plumbing Engineers for systems outside the building related to water, storm water and sanitary sewer systems.

The Eastern Michigan Chapter of ASPE hosts a series of Plumbing Design Classes from 4:30 PM to 5:30 PM in addition to our technical program. This year's series is sure to provide details of interest to many plumbing professionals. It is helpful/important to bring your MI Plumbing Code Book if you plan to attend.

***** TAKE NOTICE*****

All Professional Engineers and Certified Plumbing Designers

The above design class held monthly from 4:30 - 5:30 PM, can be counted towards your professionally required REUs, CEHs, and CEUs.

These one-hour design classes will run from September - May.

APRIL TECHNICAL PROGRAM

TOPIC: Natural Gas (Including material considerations)

Presenter: Bill Grayzar, CPD

DiClemente Siegel Design Inc.

In this presentation we will review terminology, governing codes, various components, distribution and design considerations, and materials and joining methods associated with fuel gas piping systems. We will review how operating pressures and pressure losses affect system design. We will learn how to determine building total load and how to design and size a building fuel gas piping distribution system.

Mr. Grayzar currently serves as V.P. Legislative for the Eastern Michigan Chapter of ASPE and has over 30 years of experience in the mechanical design field. Bill continues to enhance his system engineering skills through additional vocational field training. He is excellent at designing HVAC renovations for older buildings for religious, educational, municipal, and automotive clients, as well as others. His goal for renovations is to design energy cost saving systems that will enhance the system performance of the entire facility. Bill has an excellent working knowledge of Michigan's current building codes and regulations. Bill obtained an Associate's Degree in Architectural Technology from Delta College University Center, Michigan in 1984.

UPCOMING MAY PROGRAM

4:30 PM

Design Class - *System Installation Considerations*

Presenters: Paul Baker | Plumbing Training Center Director and Michael Melaragni | Guardian Plumbing

6:00 PM

Technical Program - *"VENTING ABOUT VENTING" Large Area Venting (Kitchen, Mechanical Rooms, etc.)*

Presenter: Julius Ballanco P.E., CPD, FASPE (JB Engineering and Code Consulting, P.C.)

ASPE Journal

A selection of technical articles to pique the plumbing engineer's curiosity. One of ASPE's newest member benefits!

IN THE KNOW

NEW CODE BOOK ORDER FORM

Please use the most current book order form from the Code Study & Development Group on page 20. Contact Mr. Dann Holmes with questions at dholmes@nsf.org or (734) 214-6222

TABLE TOP SPONSORSHIP PRICING

ASPE Members

· $150.00 for the 1st table per meeting/per vendor
· $100.00 for each additional table per meeting/per vendor

Non-Members

· $200.00 for the 1st table per meeting/per vendor
· $150.00 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.

review

WORLD PLUMBING COUNCIL

"Uniting the world plumbing industry and promoting its public health and environmental role"

ATTENTION ASPE YOUNG PROFESSIONALS!

Your peers have been busy organizing the ASPE Young Professionals (AYP) special-interest group, and we want you to get involved. Send an email to prosenberg@aspe.org if you want to be kept up-to-date on exciting special offerings just for young engineers, including:

- Educational offerings for young engineers and designers
- Partnering with other associations
- Forming a liaison to the national board of directors
- Ways to engage local members on the chapter level
- Developing new marketing materials
- Social functions for young engineers only

Affiliate Liaison Report

Dann Holmes, ASPE Region 2

Upcoming Region 2 President's Meeting

Our Region 2 ASPE chapter presidents are making plans for the June 8th and 9th President's Meeting. Our host this year is the Evansville Chapter (satellite of Central Indiana). Chapter President Sam Schenk, CPD is finalizing the hotel and networking itinerary. If you have anything you would like addressed, please speak with your chapter president soon.

ASPE Conference Committee

I will be attending the ACC planning session meeting at our ASPE HQ in Rosemont, IL April 12th. It is also an honor to be involved in this process. So much takes place behind the scenes to make what should be our largest, most successful conference ever, run smoothly. Our focus will be on the logistics of the trade show, what work is completed, what work needs to be addressed, what manufacturers, if any have not made a commitment yet and, most importantly, how do we get YOU, the engineering community to show in force.

ASPE Convention and Expo

The ASPE Convention and Expo 2018 will be held September 28 – October 3 at the Georgia World Congress Center in Atlanta. Start making your plans to attend now. We anticipate more than 300 exhibiting manufacturers and suppliers as well as 4,000+ industry professionals from around the world.

Registration information is available to review on the www.aspe.org website. Registration will begin in mid-April. Early bird rates will end September 28th.

If you are considering running for a position on the Society Board of Directors, now is the time to put your application together and get it submitted.

Pre-conference events will include a Green Plumbing Design workshop, and a Women of ASPE Leadership Forum. You can choose to attend the forum(s) only or combine them with a full convention registration. I'm hoping all those attending a forum will choose the full registration package.

Since there is so much work to be done, that's it for now. Thank you for taking time to read this article.

Dann Holmes – ASPE Region 2 Affiliate Liaison

NSF International – Building Water Health

Business Development Manager

r2al@aspe.org or (734) 214-6222

ASPE Announces
The Women of ASPE

The mission of the new Women of ASPE (WOA) special-interest group is to **engage, retain, and advance** women in the plumbing design industry through education, leadership development, and networking opportunities. It is open to women who have an active membership with the American Society of Plumbing Engineers. Some of the activities include:

- Mentoring programs
- Membership growth outreach efforts
- Fostering partnerships with industry–related associations
- Various educational offerings

To join the Women of ASPE special-interest group, email skidd@aspe.org
For more information, visit www.aspe.org/woa

ASPE
American Society of Plumbing Engineers™

VP Technical Report

Theresa Allen, PE, CPD, LEED AP BD+C, GPD

Hello from your VP Tech!

First of all, let's extend a big THANK YOU to our tabletop and event sponsors last month:

March Meeting: **Kerr Pumps, George Fisher, Vaculand and Watermark Reps!**

Our March meeting started with a Design presentation from Mike Melaragni and Paul Baker on Sumps and Pumps. They did a fantastic job teaching us on the Michigan plumbing Code language that deals with sump pumps as well as taking us through the different options we have as designers to specify the pumps, rail systems, basins, floats, trim and panels. They also talked about the packaged systems out there as well as giving us a nice checklist that all engineers should adhere to when specifying this equipment.

The technical session was taught by Brad Gray, regional sales manager at Busch Vacuum. He gave us a nice overview of medical vacuum systems, as well as some audience discussion on WAGD (Waste Anesthesia Gas Disposal) systems and recent code changes coming up for NFPA 99 (filters on vacuum exhaust?). Here are the major take-a-ways from the presentation:

- A very critical aspect of the vacuum system is the pipe sizing. Too much pressure drop through the piping system is the common issue in malfunctioning systems.
- Claw pumps are the #1 used type of vacuum pump since there are quieter, more efficient and don't use oil. Followed by oil sealed rotary vane pumps.
- Liquid ring pumps are energy hogs.
- WAGD pumps can be the same as the medical vacuum.
- Lab vacuum packages are often specified to be NFPA compliant and have the same list of components as the medical vacuum pumps. Except lab gas streams are likely to contain condensable agents requiring additional components in the package like: knock out pots with auto drains, purge controls, line filters and moisture separators.

There will need to be some discussions/solutions in the future from vacuum pump suppliers to figure out how to deal with the toxicity of the vacuum exhaust. The 2018 version of NFPA 99 is looking at requiring filters – but filters come with more pressure drop and vacuum pumps can typically only handle about 3 psi in the discharge, maximum. If back pressure is so bad for a vacuum pump – how can we handle cleaning the exhaust? People are looking at scrubbers with low pressure drop – but only time will tell how this vacuum pump exhaust dilemma will end.

Stay tuned for more NFPA 99 updates!

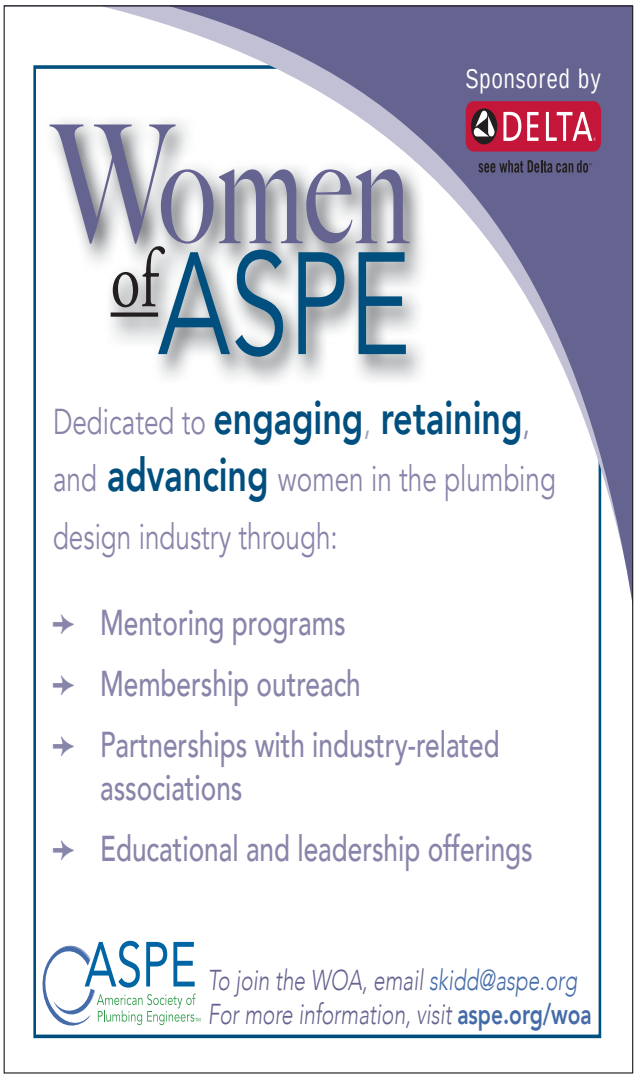
As a reminder, please remember to SIGN IN and SIGN OUT in order to receive your CEU certificate. Also, please fill out the program evaluation forms for each session, as this will help us better our programs!

In closing, and most importantly: **REMEMBER TO SUPPORT THOSE WHO SUPPORT THE CHAPTER!**

Theresa Allen, your VPT

Vpt.aspe.emc@gmail.com

Theresa.allen@ibigroup.com



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VP Legislative Report

William Grayzar, CPD

I hope you got involved with some activity last month to celebrate World Plumbing Day (WPD). As far the Eastern Michigan Chapter of ASPE our annual WPD NASPE Race was held once again at the training center. I would like to thank everyone who participated in the race and congratulate Theresa Allen this year's overall winner with her WPD Racer, Mark Lamberson who came in 2nd with his "Gavel Hauler" and Adrienne Bennett who took 3rd with her Benkari Racer.

For those who may not know, World Plumbing day is an international event initiated by the World Plumbing Council to recognize the important role plumbing plays in our health and safety. World Plumbing day is celebrated on March 11 every year.

Everyone is affected by the availability of clean drinking water and basic sanitation. If you think you not affected, think about what happens when there is a water main break that affect the water pressure or stops water flow completely to your home or business. Then after it is repaired, think about the dirty undrinkable water that must flow through the system before it is usable again. Then think of people in other areas that must walk miles to get a daily water supply from a well or river, which may or may not be contaminated. The short inconvenience we feel is nothing to the daily routine they must perform to survive. But, in either case we are affected.

Unfortunately, in many developing countries, plumbing is either very limited or even non-existent, and many locations lack an effective plumbing infrastructure. According to the World Health Organization: 650,000,000 people do not have access to safe waste, 2.3 Billion do not have access to an adequate bathroom and 315,000 children die every year from diseases caused by dirty water and poor sanitation.

When you live in a place like Michigan surrounded by one of the worlds largest fresh surface water supplies, sometimes it is hard to believe the world is facing a water shortage. Many studies have shown that, of the approximate 332,500,000 cubic miles (mi3) of vast water on planet earth, only about 2% is fresh water safe for drinking. Of the approximately 332,500,000 cubic miles (mi3) of water on planet earth, our oceans and inland seas comprise a little more than 97%, glaciers and polar icecaps another 1.69%. But, about 0.93% of this is salty sea water and is unusable for human consumption. Of the roughly 2% of fresh water available approximately 69% is locked up in glaciers and icecaps and is inaccessible, another roughly 30% is ground water and about 1% is surface water from lakes and streams.

A new technology being tested for removing salt from seawater was developed by UK-based team of researchers. They created a graphene-based sieve capable of removing salt from seawater. Graphene, hailed as a "miracle material", is unbreakable, tougher than a diamond, but stretchable like rubber, it is 2 dimensional and micro thin requiring a microscope to see it. This promising technology and sought-after material could aid the millions of people without ready access to clean drinking water, but this technology is still in the early developmental stages.

What is currently the world's largest supply of fresh water? First, you have to determine, are we looking at a vapor (gaseous), liquid or a solid form of fresh water? Are we looking at surface water or below grade?

If we look at fresh water in a gaseous state, the largest source is the earth's atmosphere, which is an estimated 0.001% of the world's water, or 360,000 mi3. This is about 0.04 % of the world's roughly 2% of fresh water supply.

If we look at water in a liquid state above grade in lakes, rivers and streams, this comprises approximately 0.13% of the world's water and roughly only 0.007% is fresh water. This fresh water makes up only about 0.26% of the roughly 2% of freshwater on the planet. The largest supply of fresh surface water is Russia's Lake Baikal. With a surface area of approximately 12,248 square miles (mi2.), Lake Baikal is smaller in surface area than most of the great lakes. But, Lake Baikal is roughly a mile deep and is greater in volume. Lake Baikal has a volume of approximately 5,521 cubic miles (mi3) and contains approximately 20% of the roughly 0.26% of fresh water in the world's lakes, rivers and streams. The great lakes by comparison are Lake Superior which ranks 4th and has a surface area of 31,700 mi2 and volume of 2,904 mi3., Lake Michigan which ranks 6th and has a surface area of 22,300 mi2and a volume of 1,180 mi3, Lake Huron which ranks 7th with a surface area of 23,000 mi2 and a volume of 850 mi3, Lake Ontario which ranks 11th with a surface area of 23,000 mi2 and a volume of 850 mi3, and Lake Erie which ranks 15th with a surface area of 23,000 mi2 and a volume of 850 mi3. Combined the Great Lakes have a surface area of 94,250 mi2, which is, more than 7 times the area of Lake Baikal, but the combined volume of the Great Lakes is approximately 5,443 mi3, which is nearly the same as Lake Baikal. The volume of the combined Great Lake basin also makes up approximately 20% of the roughly 0.26% of fresh water in the world's lakes, rivers and streams.

Continued on Page 9

VP Legislative Report (cont. from page 8)

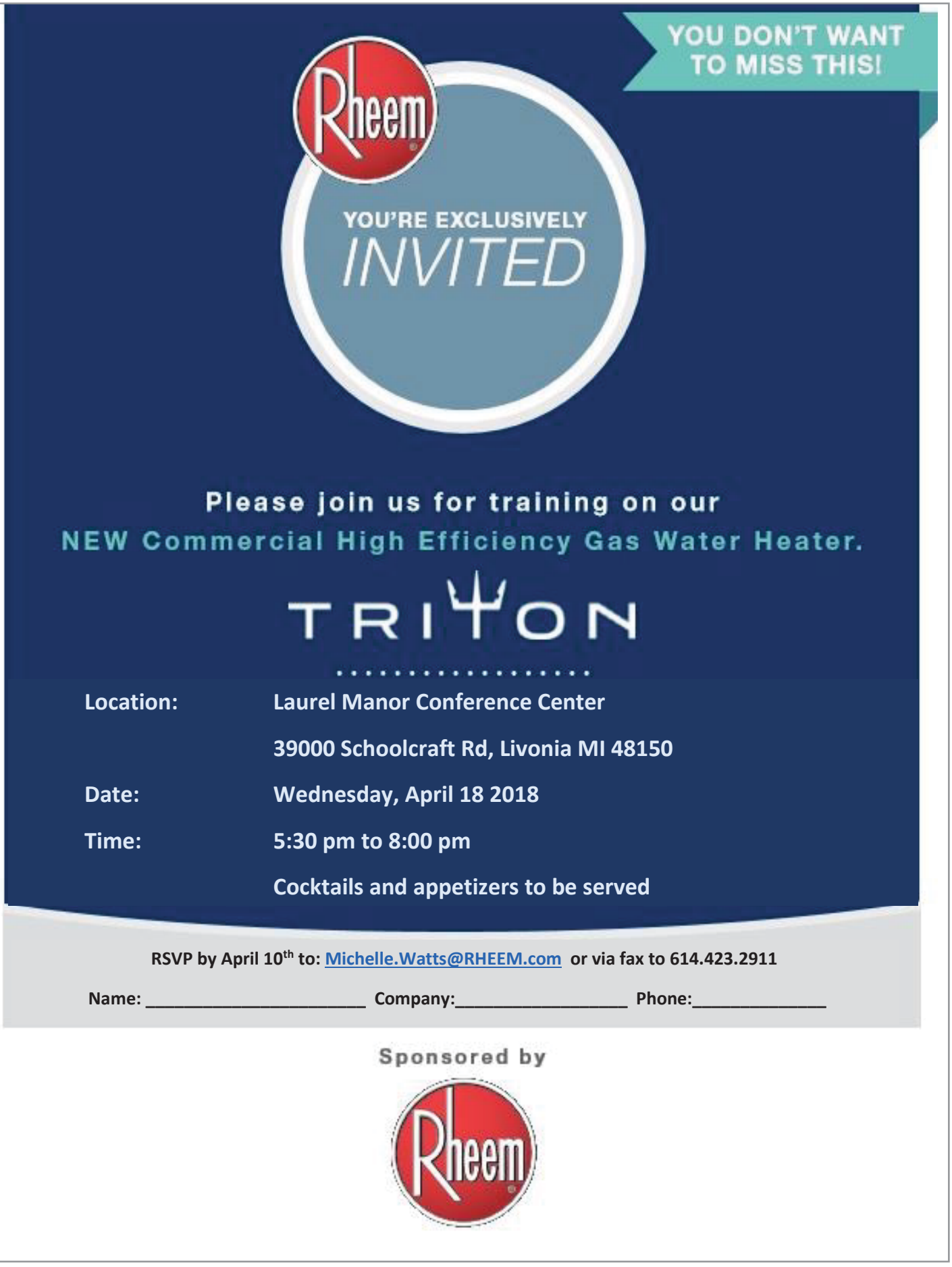
William Grayzar, CPD

If we look at water in a solid state, located mainly in Glaciers and the Polar Icecaps, which is about 1.74% of the total water on the planet and about 69% of the worlds roughly 2% of fresh water, the largest fresh water source would be from the Antarctic Icecap, which is approximately 88% of this total.

World Plumbing day brings attention to the facts stated and encourages innovating thinking to development new ways not only to conserve, but to also promote technologies to change more of the world's greatest natural resource "water" into fresh water suitable for human consumption.

Hope you enjoyed a Safe and Healthy "World Plumbing Day" this year!

Bill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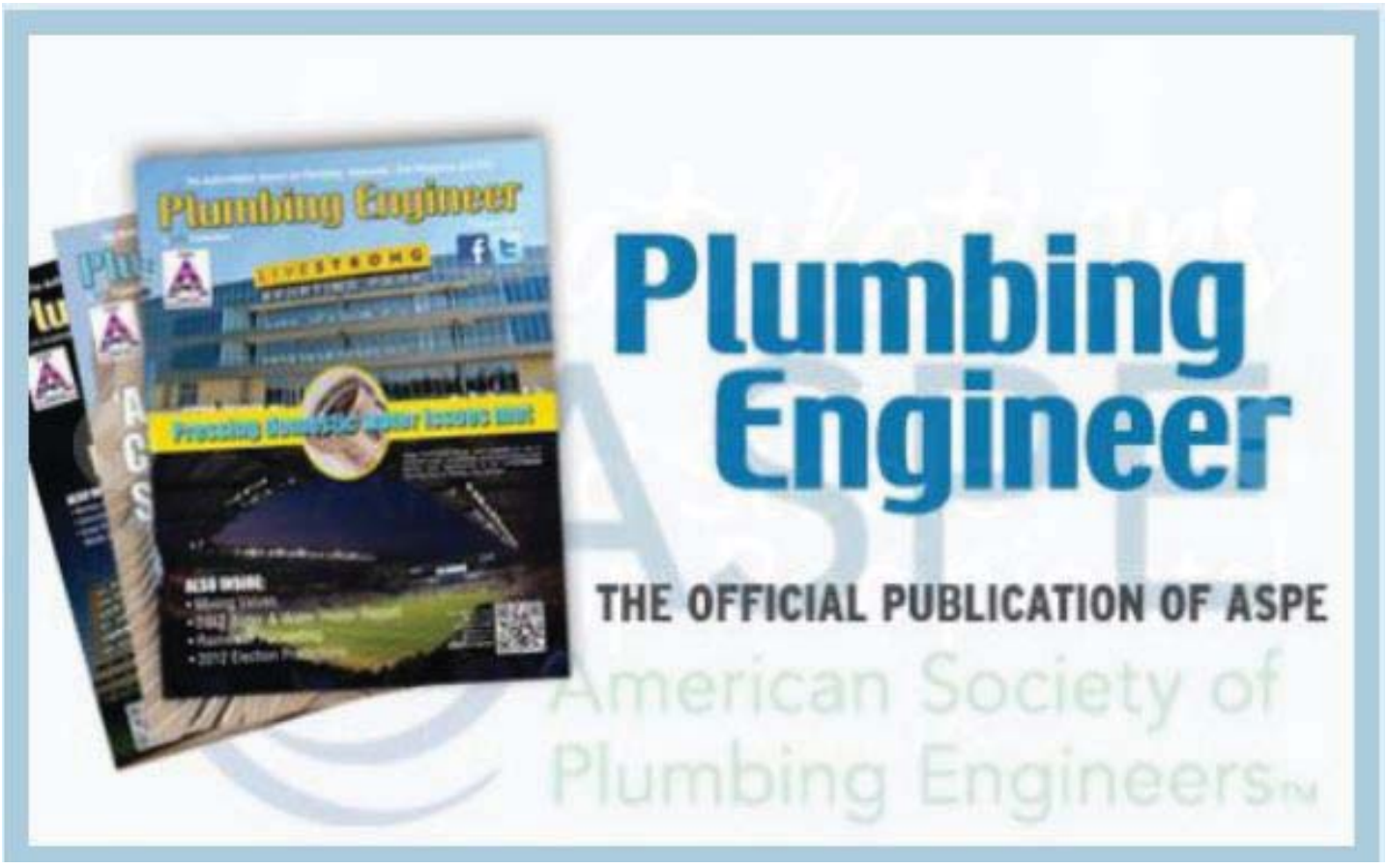
ASPE
CONVENTION & EXPO 2018

September 28 - October 3
Georgia World Congress Center

HOME EVENT INFO ATTENDEES CONVENTION EXPO EXHIBITORS



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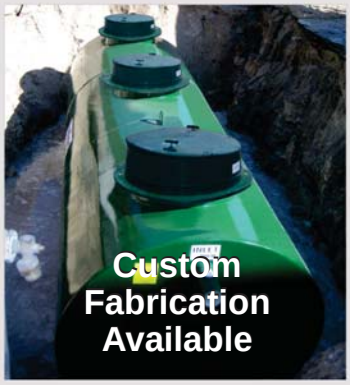

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MARCH MEETING STATS

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Paul Stanzak
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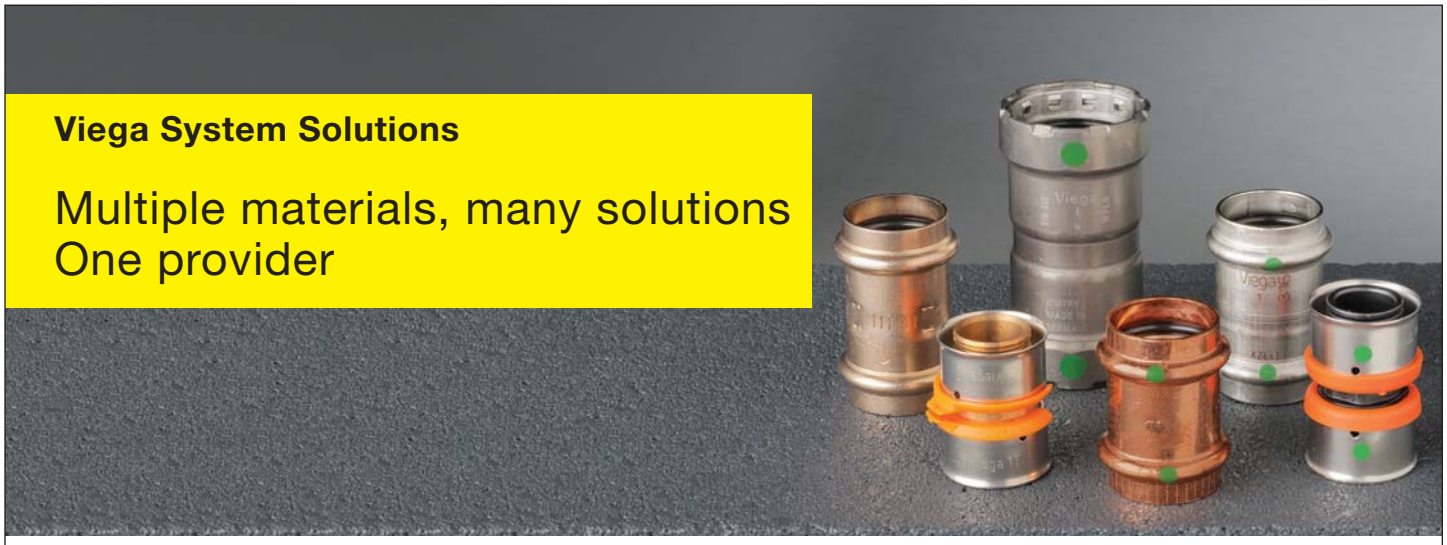
Frank Tistle

If you are interested in table top sponsorship, please contact Brianne Hall at: bnhall@ftch.com or (248) 324-4780.

PHOTOS FROM MARCH'S MEETING

ASPE EMC President Brianne Hall presents technical session presenter Brad Gray with Certificate of Appreciation. Brad is regional sales manager of Busch USA.

Congratulations to the winners of our annual NASPE races! Theresa Allen (center) took first place with a time of 3.43, Mark Lamberson (left) and Adrienne Bennett (right) took 2nd and 3rd with times of 3.57 and 3.62.



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Total books subject to incoming ICC Frgt charges **0**

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Address		**Add $4 per book**	**ICC Frgt**	$ -
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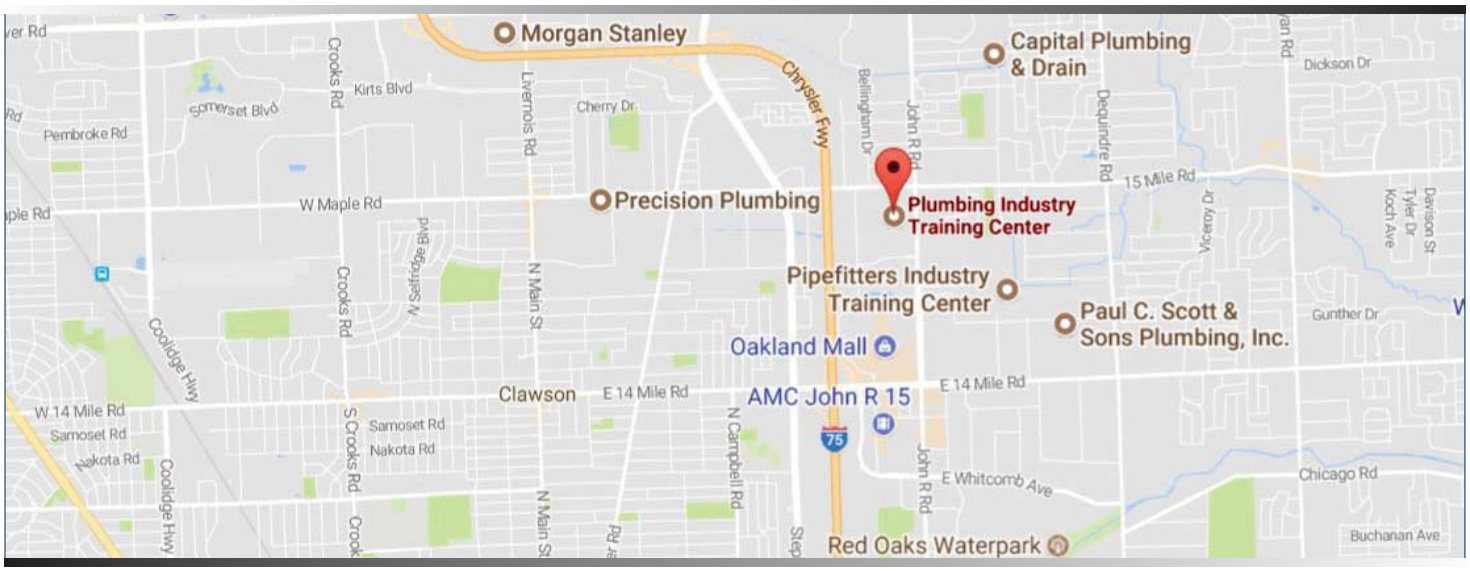

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