

JAN. MEETING AGENDA

DATE:

TUESDAY, JANUARY 9, 2018

“WHO’S IN HOT WATER?”

WHERE:

Plumbing Industry Training Center
(map on back page)

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

Sub Soil Drainage

Presenters: Michael Melaragni | Guardian
Plumbing & Heating
Paul Baker | Plumbing Industry Training
Center Director

5:30 - 6:00 PM - DINNER

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

6:00 - 8:00 PM - TECHNICAL SESSION

*Panel Discussion on the Domestic
Water Heater*

Panelists:

Sean Clarke (Hubbell Water Heaters)
Alan Deal (Performance Engineering Group)
Dan Goellner (Eemax, A Division of Rheem)
Jim Hoover (PVI Industries, LLC)
Mike Ostrowski (Major Lozuaway & Assocs.)
Paul Prentice (R.L. Deppmann Company)
Tom Zimmerman (Burke Agency)

REGISTRATION REQUIRED

<https://www.eventbrite.com/e/aspe-emc-january-2018-technical-program-tickets-37149126036>

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



Happy New Year!

I hope that you all had an enjoyable holiday season with family and friends!

If you missed the latest edition of the ASPE Pipeline, information was provided for an Intermediate Revit MEP Workshop to be held in Troy on March 2nd. The detailed information and registration can be found here: <https://aspe.org/revit2018>

Class size is limited to 8 people, please register soon to ensure your spot in the class!

There are a few other upcoming dates/deadlines to be aware of:

1/8/18: Sponsorship and table registrations for the ASSE Michigan Chapter Banquet are due! Refer to the registration form within this newsletter for additional information.

1/8/18: Deadline for the proposed changes for the 2021 International Plumbing Code. Changes can be submitted online at: <https://www.cdpaccess.com/>

1/9/18: Bring your domestic water heater questions our January meeting, “Who’s In Hot Water”. We will be holding a panel discussion with a cross section of industry representatives for various types of water heaters.

1/15/18: The deadline for the call for presenters for the 2018 ASPE Convention and Exposition in Atlanta on September 28-October 3rd. If you are interested in presenting, additional information can be found here: <https://www.aspe.org/CallforPresenters>

1/27/18: Annual ASSE Michigan Chapter Banquet

1/31/18: The deadline to apply for the ASPE National Alfred Steele Scholarship. Additional information can be found here: <https://www.aspe.org/SteeleScholarship>

3/22/18: Registration for the 4/5-4/6 CPD exam closes. Registration and additional information can be found here: <https://aspe.org/CPDExam>

Please contact me with any comments or questions!

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

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**REACH OUT TO OUR NEW MEMBERS
 AND SPONSORS!**

CPD EXAM REGISTRATION

Opened December 1, 2017- closes March 21, 2018

ASSE ANNUAL MEETING & AWARDS BANQUET

Saturday, January 27, 2018 - Register now!

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

**In Memory of
 Paul Bladdick, FASSE**



The Eastern Michigan Chapter of ASPE was saddened to learn of the passing of Paul Bladdick, FASSE.

Paul, age 74, passed away on December 21, 2017. Paul was a Master Plumber and a veteran of the United States Marine Corps. He was an Eagle Scout and member of the Code Study and Development Group of Southeastern Michigan, ASSE, ABPA, ASPE.

Above photo is of Paul receiving the Patrick J. Higgins award at the 2016 ASSE Annual Meeting. In this picture L to R: Doug Marian, ASSE International Immediate Past President, Barry Pines and Paul. This is the award description: The Patrick J. Higgins Award, for outstanding contributions in the field of plumbing codes and standards, was named for a member who contributed greatly to the development and acceptance of ASSE standards internationally. The award is given to a person who demonstrates both knowledge and support of voluntary, consensus standards and their adoption into code.

Paul will be missed by many and long appreciated for his contributions to this industry.

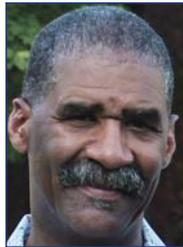
**NEW MEMBER(S)
 ~ WELCOME ~**

GARY PARKER

JANUARY DESIGN CLASS

TOPIC: Sub Soil Drainage

Presenters:



Paul Baker

Director of the Plumbing Industry Training Center

Mr. Baker is currently Director of the Plumbing Industry Training Center in Troy, MI. He has been an exceptional instructor at the Training Center for many years prior, providing great value to the Apprenticeship Program.



Michael Melaragni

Guardian Plumbing & Heating

Mr. Melaragni has numerous years in the Plumbing Industry and has served as an outstanding Director of the Plumbing Industry Training Center for many years. Mike is currently utilizing his expertise at Guardian Plumbing and Heating in Livonia, MI.

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.**

This design course will cover topics related to sub soil drainage systems including but not limited to: reading soils reports, sizing and routing drain tile, drain tile materials and installation considerations and where to use clean outs & backwater valves.

JANUARY TECHNICAL PROGRAM

TOPIC: Panel Discussion on Domestic Water Heaters

Panelists:

Sean Clarke (*Hubbell Water Heaters*)

VP of Sales for Hubbell Heater Co. Sean has over 19 years' experience within the water heating industry and overseas sales of Hubbell water heaters and storage tanks globally.

Alan Deal (*Performance Engineering Group*)

Mr. Deal is president of Performance Engineering Group, Inc. This company has been actively involved in designing and marketing domestic hot water and hydronic heating systems since 1964 and has been involved with hundreds of energy conserva-

tion projects across a broad spectrum of market segments, including renewable energy and waste energy solutions. Alan is a Registered Professional Engineer with the State of Michigan, The Detroit chapter of the ASHRAE (past president), USGBC – Detroit Chapter, LEED AP O + M, and Commercial Real Estate representative to the General Circle - ASPE EMC. Alan has also received many industry awards including multiple ASHRAE technology awards for energy conservation activities, ASPE-EMC Chapter Engineer of the year, and a Radiant Panel Association Hall of Fame nominee.

Dan Goellner (*Eemax, A Division of Rheem*)

Dan holds a BS in Mechanical Engineering from the University of Missouri and a Masters of Business Administration from Webster University. Dan's background includes being a project manager with a multi-family developer, sales engineer of piping systems and Dan's father owns an HVAC service company.

Jim Hoover (*PVI Industries, LLC*)

Jim is in his 17th year at PVI Industries, LLC, Ft. Worth TX as the Regional Manager responsible for 14 Manufacturers Representative Organizations in the US and Canada. PVI is now part of Watts Water Technologies, Andover MA. PVI is a leading manufacturer of commercial and industrial ASME water heaters and boilers with our manufacturing location in Ft. Worth TX. For the last 56 years. He has prior industry experience as National Sales Manager and Regional Manager at Encon Emergency Shower and Eyewash in Houston, TX. Jim has a BS in Marketing from Montclair University, NJ and an MBA from Shippensburg University of PA. He has been married for 40 years and has 4 children and 4 grandchildren.

Mike Ostrowski (*Major Lozuaway & Assocs.*)

Entry into the Industry in May, 1999 with Major Lozuaway and Associates where I still am today. Major Lozuaway has been the Manufactures Representatives of the A.O. Smith Water Products Company since 1990. I have always been intimately involved with A.O. Smith where I support all facets of sizing, selecting, installing, and troubleshooting our water heater line. I also provide sales assistance to the distribution and engineering community.

Paul Prentice (*R.L. Deppmann Company*)

Paul Prentice is a graduate of The University of Michigan with a BS in Mechanical Engineering. Paul has been a manufacturer's representative since 1983 and has been with the R.L. Deppmann Company for 13 years. Paul spends his time with R.L. Deppmann Co assisting consulting engineers in the selection and application of several heating, cooling and plumbing products. System design has always been important as well as just the product selection. R.L. Deppmann represents Bell and Gossett pumps as well as water heater manufacturers like AERCO, LAARS, Bock and Cemline.

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IN THE KNOW

NEW CODE BOOK ORDER FORM

Please use the most current book order form from the Code Study & Development Group on page 12. 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.



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



VP Technical Report

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



Hello from your VP Tech!

I hope you all had a great holiday and New Year's!

First of all, let's extend a big THANK YOU to our tabletop and event sponsors during our past month's meeting.

December meeting sponsors:

Underwood Fire Equipment, Balfrey & Johnston, Victaulic and RDT Floodmaster!

I am sorry I was unable to attend December's meeting, especially after missing November's as well. Work just keeps sending me out of town on ASPE days. But I will be trying to put my foot down in the next year and make it to the rest of the 2017-2018 program events.

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!

See you in January!

Theresa Allen, your VPT

Theresa.allen@ibigroup.com

January Technical Program (cont. from page 3)

Tom Zimmerman (Burke Agency)

Tom is in his 20th year with the Burke Agency as Commercial Sales in Southeast Michigan. The Burke Agency represents Bradford White Water Heaters and 16 other Plumbing and Heating Manufacturers for the State of Michigan. He graduated from Indiana University in 1980. Tom has 11 years of sales experience with Nibco and 8 years' experience as Regional Manager with IMCOA Pipe Insulation (Midwest and Eastern Canada). He has been an ASPE member since 1998!

VP Legislative Report

William Grayzar, CPD



If you missed the 2017 ASPE Symposium held in Montreal back in October, you missed a great event. Congratulations to the National Society and to the hosting Montreal chapter of ASPE for the efforts in making the 2017 Symposium one to remember. If you are in the plumbing profession you will appreciate this. One of the highlights I experienced, while at the symposium, was a tour of the biggest restroom in Montreal, the Jean-R Marcotte waste water treatment plant (WWTP). The plant tour guide was Mr. Jean-Maurice, a distinguished plant operator, who has a long history with his many years of service with the plant. Mr. Jean-Maurice's knowledge of the facility was impressive to say the least.

The Montreal WWTP is located at the far eastern end of Montreal Island in Pointe Aux Trembles. The plant was constructed in 1970 and is the largest sewage treatment plant in North America and 3rd largest in the world. The plant serves 27 communities and treats approximately 2.6 million m³ (approx. 733.9 million gallons) of waste water and sewage daily on dry days and as much as 7.6 million m³ (approx. 2 billion gallons) on rainy days. I was surprised to learn that the 1940 WWTP in Detroit is close to the size and capacity of the Montreal WWTP and is one of the largest in the United States. The Detroit WWTP serves the City of Detroit and 127 suburban communities and treats approximately 2.46 million m³ (approx. 649.4 million gallons) of waste water and sewage daily on dry days and as much as 6.435 million m³ (approx. 1.699 billion gallons) on rainy days. However the secondary treatment process, added in 1970, limits the Detroit plant capacity to 3.52 million m³ on rainy days. The Montreal plant currently does not have a functioning secondary treatment process, but is planning to have an operational secondary treatment system using ozone in 2018.

Sewage treatment begins with the collection of raw sewage. Both the Montreal WWTP and the Detroit WWTP utilize a combined sanitary and storm water sewer system to collect the waste water from various municipalities. Current regulation in Montreal requires that where piping replacements require the opening of streets that the combined sewer system be separated, providing a storm sewer pipe and sanitary sewer pipe. Because of this regulation, most of the sewer replacements are being done using sock lining to prevent opening of the street and separation of the existing combined sewer system. Also, all new buildings are required to be designed with separate sanitary and storm systems, which may be combined at the discharge of the building. Similar, to the requirements in the City of Detroit.

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The waste water from the collection pipes is then transported to the WWTP using large interceptors. Interceptors, for lack of a better term, are large pipes that are utilized to collect the waste water from the combined sewer systems collection pipes and regulate the flow of waste water being supplied to the WWTP. The Montreal sewer system utilizes three (3) interceptors (North, Southeast and Southwest), which have a combined length of approximately 50 miles of gravity fed interceptor piping, with no pumping (lift) stations and 33 regulating structures to regulate the flow of waste water to the plant. This is impressive as gravity being a very reliable source for inducing flow cost nothing to operate. The Detroit plant on the other hand has twelve (12) pump stations, six (6) combined sewer overflow retention treatment basins, three (3) screening and disinfection facilities, various regulating structures and over 3,000 miles of large diameter sewer collection and interceptor lines that carry captured storm water runoff, snowmelt, and waste water to the Detroit WWTP.

During periods of high flow rates, typically during heavy rain events, the excess waste water that cannot be treated is discharged from the interceptors to surrounding lakes, rivers and streams through various outfall locations. The Montreal interceptors originally had 180 outfall locations, but currently utilize approximately 162 outfalls to discharge raw sewage during periods of heavy flow directly into the St. Lawrence River. The Detroit WWTP has approximately 33 outfalls that discharge to the Rouge and Detroit rivers. Unlike Detroit, which has approximately 63% dry weather annually, Montreal has 85% dry weather annually.

Focusing on the Montreal WWTP, the Southeast interceptor for the Montreal sewer system, completed in 1990, severs the southeastern side on Montreal Island. Prior to 1990, the waste water from the southeastern side of the island discharged directly into the St. Lawrence River. The southeast interceptor enters the WWTP approximately 45 meters (\approx 146 feet) below grade. The Southwestern interceptor combines with the North interceptor on the west side of the island and the North interceptor enters the WWTP approximately 35 meters (\approx 116 feet) below grade. Of the waste water entering the plant 14% of flow is from rain and snow melt, 37% to 40% of flow from the network and 8% of flow from infiltration.

The plant uses physical treatment to remove 80% of solids, but can also remove 80% to 90% of phosphate.

The plant has 5 levels with approximately 50 feet of building above grade and 150 feet below grade, with the upper most level 5 at 14 meters (\approx 46 feet) above grade, level 4 at 5 meters (\approx 16 feet) above grade, level 3 at 7 meters (\approx 23 feet) below grade, level 2 at 19 meters (\approx 62 feet) below grade and level 1 at 32 meters (\approx 105 feet) below grade. The plant also has \approx 2.5 miles of underground roadway, allowing for the plant personal to move about the plant without going outside during the harsh winter months.

As the waste water enters the plant it is collected in four (4) large wells. The wells extend up through the center of the plant and are vented at the top through a cupola. The cupola has an explosion proof glass wall that extends around the circumference of the structure. This is where the treatment process begins. As the waste water enters the wells a coagulant (with a positive charge) is injected to generate larger debris which will be heavier and sink to the bottom of the well. On average the plant utilizes 125 tons of coagulant daily. A periodic screening process is used to remove floating debris from the wells. The screening process removes approximately 20 tons of debris per week, which is trucked off-site for disposal. A grit removal process is used to remove heavier debris. The grit removal process consisting of pumps mounted on a tracking system that make a complete pass every 15 minutes and a perforated pipe used to promote turbulence. The turbulence both breakdown the debris and aerates the waste water.

Waste water enters the plant at a steady flow rate of 22 to 23 cu. m/s. Induction pumps are used to accommodate varying flows. 65% of the plants electrical operating cost is from pumping. Currently, the plant pays \$0.45 per KW for electricity.

The plant has a pumping station that consists of 17 pumps used to pump waste water from the base of the 4 wells to the clarifier basins located at ground level. When it came time to find an engineering firm to design the pumping station only one Japanese company said yes. The pumps are located on the two lowest levels of the plant and operate at 360 RPM with a pumping rate of 60 cu. m/s (\approx 1,580 GPM) each. The discharge pipe from each pump is 5'-0" in diameter. The pumps motors are cooled using chilled water produced from absorption chillers. The chillers operate on a 6° temperature difference (ΔT). Chilled water from the chillers is sent to the pumps at 60°C and returns from the pumps back to the chillers at 66°C. There are three cooling towers associated with the chilled water system, which are used to cool the chillers.

Prior to the waste water entering the clarifiers a negatively charged flocculent is added to again promote bonding of debris to make them heavier and to lessen the amount of suspended solids. The positively charge coagulant and the negative charged flocculent, work together to further promote bonding process. The plant is equipped with 21 clarifiers. Each clarifier has a 5,000 cu. m (1,320,860 gallons) capacity. Once the waste water has entered the clarifiers slow moving skimmers are utilized to remove surface scum. In the bottom of the clarifiers a sludge and flocculent solution that is an approximately 4% solid must be pumped. Turbulence is avoided in the clarifiers. Distribution canals are used to keep the flocculent in suspension. Due to the average incoming volume of waste water, the plant can only keep waste water in the clarifiers for 2 hours. On average 7,500 cu m/day (6 cu m/s) of sludge is removed from the clarifiers.

Treated water from the clarifiers is discharged into the St.

Lawrence seaway for dilution. It should be noted that the key to physical treatment is the location where the treated water is discharged.

The sludge removed in the clarifiers then moves to a compression process where large compression units are used to dehydrate the sludge. A positively charged polymer is added to increase the rate of dehydration. The dehydrated sludge forms a solid referred to as a cake. The cake is produced by compressing the sludge between two large steel plates. A filtration media is utilized to make it easier to remove the cake after the compression process is completed. One side of the filtration media is slipperier than the other. The slipper side is placed on the side exposed to the sludge. The plant personnel remember this by using the term "Slippery Side Cake Slide". The filter media is manually washed weekly using a pressure washer, similar to the pressure washers at a do it yourself car wash. The compression units produce 850 tons of cake per day. Upon completion of the compression process the cakes drop onto a chute beneath the compression units and move by conveyor to the incinerators to be burned.

The plant has 4 incinerators. Each incinerator is 60 feet high with eleven stages of incineration. By the time the incineration system construction was completed many of the items utilized were obsolete. The plant is currently looking at revamping the incineration system. A screen feeder is used to move the cakes from the conveyor into the incinerators. Each incinerator has arms and blades that are used at each stage of incineration to move product to the next stage. The cake drying process is still occurring during the first three stages of incineration. The incinerators operate at 850 °C and produce 100 tons of ash per day. The ashes are disposed of in a quarry for storage and then sold. The cost for natural gas for the incinerators is \$3.5 million per year. This cost is offset by the recollection of \$3.5 million of steam. Combustion smoke from the incinerators must be cleaned prior to discharging to atmosphere. The flue gases are discharged at 30°C.

The plant has six generator rooms and is setup for catastrophic emergencies. The generators produce a total of 15 megawatts of electricity, enough to serve a village of approximately 7,000 people. Sometimes the plant generators are used for load shedding during times of public usage peaks. The generators are exercised weekly. The generators are used to prevent voltage fluctuations for sensitive equipment and controls. Each generator is mounted on vibration isolators and each has a 4,000 horsepower, V18 diesel motor, the largest that can be used in diesel locomotives. The generators are started using compressed air and operate at 900 RPM. The compressors generate a maximum of 900 RPM. One compressor running generates 80 decibels of sound.

The plant equipment is controlled from 3 control rooms located on the 4 level of the WWTP. The controls for the

plant are interactive and not automatic. Thus, requiring input from the plant operators. The plant controls utilize approximately 12,000 digital and 6,000 analog signals to operate the equipment. The plant has 280 employees with an average of 80 people for operations. However, the plant can be run with a minimum of 20 people.

As I mentioned at the beginning of the article the Montreal WWTP does not currently utilize secondary treatment. However, in 2018 the plant will begin a secondary treatment process using ozone. The estimated cost for the secondary ozone treatment is estimated at \$98.5 million for installation and \$9 million annually in operating costs. This will make the Montreal WWTP the largest in the world using ozone. Ozone is currently being utilized at the water treatment plant used to treat drinking water. In order to generate the 65 tons of ozone per day needed at the WWTP, 550 tons of oxygen will be required. Ozone would be injected into the treatment process downstream of the clarifiers. There are concerns with the ozone in the fact that ozone releases Nitrogen, which is highly toxic, when incinerated. The ozone treatment processes require the plant to double its electrical capacity. The Montreal WWTP has plans to build a 315 KW reduction station at a cost of \$30 million dollars.

It should be noted that the Montreal WWTP has never used chloride in its treatment processes, which would prevent swimming downstream of the plants discharge location into the St. Lawrence River.

I would like once again thank Montreal Chapter and the National Society for arranging the tour of the Jean-R Marcotte WWTP in Pointe Aux Trembles. It was a great tour and extremely informative, thank you.

I am looking forward to seeing everyone at the chapter meeting on January 9th, 2018 and possibly at the 2018 Convention in Atlanta, GA being held September 28th, 2017 through October, 3rd, 2018

Bill

VP Education Report

Mark Lamberson, CPD



In my travels in November, I ran across an unconventional topic to cover here, but I thought it was very prudent to include in this month's article. Over the last year, two design firms that I am closely associated with were victims of hackers. Also, we have seen several reports of widespread infections of viruses that were transmitted by email. While in Austin, Texas in November, I attended a seminar at the

MCA Technology Conference on web security that was eye-opening and frightening. While I am no expert in this topic, I gathered enough information to pass along to you in hopes that it saves you the agony that others around us endured this past year.

Nick Espinosa was the speaker for the program. He is a bona fide hacker and is the proprietor of Security Fanatics in Chicago. He had several basic points that he wanted to get across to the audience. They are emboldened in the following paragraphs.

The discussion started with "Do not use free Wi-Fi." I know this seems impossible, but the demonstration that Nick revealed next was absolutely horrifying! Before we attended his class, Nick set up an Evil Twin Access Point. This program resides on a hacker's computer and mimics a free wireless network, like you would use in most fast food restaurants, or in this case, the convention center. The Evil Twin looked just like the convention center's wireless access page. Evil Twins allow your device to access the real wireless network through the hacker's computer. In doing so, everything that you type and pass to the internet is captured by the hacker, like passwords and credit card numbers. It only takes a few minutes to collect the data with an Evil Twin. Nick broadcast his evil twin app on the conference room screen and revealed everyone in the conference that was logged in through his computer. That definitely got our attention. The take-aways were, (1) avoid using free wireless networks if at all possible, (2) no device is safe from hackers including Apple and Android products, and (3) protect your home and work networks from infiltration by an infected mobile device, which we will get into in a minute.

After the astonishment and panic subsided in the room, Nick offered the following protections that we should all use to protect ourselves. First, always use a Virtual Private Network (VPN) to access your network remotely. This is a program that maintains your anonymity during the process. Next, install a good firewall to stop any threats from accessing your computer or network. This includes your home computer. This is your first line of defense and can prevent or deter hackers from accessing your information. Third, use the best method for authentication pos-

sible. A lot of web sites and services are now offering two step verification. This is a simple way to add a layer of protection that is random and hard to predict by a hacker. Some of the two step processes include text messages sent to your phone with a second password that needs to be entered, the use of human response testing, like CAPTCHA, in which the user has to enter the letters or numbers they see on the computer screen, and the use of an actual phone call to verify a transaction. With the use of any of these methods, the hacker usually directs their attention to another unprotected computer before spending the time to break through the layers of security. It is like the old adage "I don't have to run the fastest, I only have to run faster than you." You don't necessarily need the most expensive methods to protect your information.

Nick discussed "Ransom Ware" next. Ransom ware is an invasive software that is deployed on a network that locks down all of the information it contains, like project design files, financial information, or customer data. The hacker then contacts the network owner and demands a ransom to release the information. The ransom is paid through a web site with Bitcoins, which are digital monetary files that can maintain the anonymity of the hacker. Nick revealed that only about half of all ransom ware infections result in the release of the victim's information after the ransom has been paid. Protections from ransom ware include frequent data backups, network reinforcements including good anti-virus software, firewalls, professional IT support, and cyber security support by a dedicated team.

Finally, several points were covered to enhance security on a daily basis. First, Use good passwords. Passwords should always be eight characters or longer. The time it takes for a hacker to crack an eight character password is exponentially longer than a six or seven character password. In fact, the best passwords are long phrases that you will not forget, and using 4 character sets including upper and lower case letters, numbers, and punctuation. Next, keep communicating. Make direct contact if an email doesn't seem right, or looks official but is requesting a transaction out of the ordinary. Don't trust the person on the other side of the message in these instances. Last, but certainly not least, educate all users on these topics. Don't forget about your family, too. Talk to your kids about cyber security.

If you have any questions concerning this topic, the MCA Technology Conference, or Autodesk University, please feel free to reach out to me. From my family to yours, have a great 2018!

ASPE Mentoring Program

The Women of ASPE are excited to introduce ASPE's new Mentoring Program!

This program, which is available to all members of the Society, has been designed to connect ASPE members who have a particular skill set (mentor) with individuals (mentee) who are searching to acquire the same skills to develop and make progress toward their personal and professional goals.

Who Is a Mentor?

A mentor is someone who can help the mentee develop skills for success and long-range career planning, is able to be a good listener, is willing to share experiences and views, is willing to commit time and effort, provides an "open door" to questions and problems, points out both strengths and opportunities for improvement, and has a vested interest in the growth and development of their mentee.

Benefits to the mentor:

- Satisfaction in helping someone mature, progress, and achieve goals
- Meeting and sharing experiences with other mentors
- Personal ongoing support to help the mentee succeed
- Personal fulfillment through contribution to the Society and the individual

Who Is a Mentee?

Having a mentor can contribute to a successful and satisfying career. Without a mentor, that learning occurs mostly through trial and error. With a mentor, even experienced professionals can benefit from the experiences and expertise of someone who has withstood the trial and can help the mentee avoid the mistakes. Similarly, those new to the industry will discover that being a mentee shortens the learning curve for acquiring the skills and knowledge most critical to a fruitful career.

Benefits to the mentee:

- Discover new talents about yourself
- Career satisfaction
- Expand your personal network
- Maximize your strengths

aspe.org/aspe-mentoring-program





American Society of Sanitary Engineering
Michigan Chapter Presents

The Annual Meeting & Awards Banquet

Saturday, January 27, 2018 - 6:00 p.m.

Italian American Banquet Center

39200 West Five Mile Rd Livonia, MI 48154

Open Bar ~ Dinner ~ Entertainment



Keynote Speaker ~ Joseph Madziar

Joseph Madziar is Chief of the Plumbing Division of the State of Michigan Bureau of Construction Codes, Department of Labor and Economic Growth. He was appointed Plumbing Division Chief, Bureau of Construction Codes, Michigan Department of Licensing and Regulatory Affairs on June 10, 2013. Prior to becoming Plumbing Division Chief, he served as the Michigan state senior plumbing inspector for six years. He has been a licensed master plumber for 33 years and owned a plumbing and heating business for 17 years.

Prizes:

- (1) 55" UHD LED 4K Super Smart TV Dolby Sound Pkg
- (1) Roku 4K Streaming Media Player
- (1) XBOX 500 GB

Tickets are on sale now and will be sold at the Banquet.
Less Than 500 Raffle Tickets printed.
Need not be present to win!

Drawing on Saturday, January 27, 2018
\$10 per ticket / 3 tickets for \$25 / 7 tickets for \$50

John E. Matthews Scholarship Raffle



John E. Matthews
(1925 – 2004)

If you would like to make a VALUED donation to the John E. Matthews Scholarship Fund please refer to the ASSE Annual Meeting & Banquet registration form for instructions.

ASSE THANKS YOU for taking the steps to continue this great tradition of helping young people succeed within this important industry.

Contact any ASSE Board Member for raffle tickets.



ASSE Michigan Chapter

Annual Meeting & Awards Banquet

Saturday, January 27, 2018 - 6:00 PM

Italian American Banquet Center

39200 West Five Mile Road - Livonia, MI 48154

Registration/Donation Form – Submit by January 8, 2018

Name _____
 Company _____
 Address _____
 City _____ State _____ Zip _____
 E-mail _____

QUESTIONS?

Contact
 Brianne Hall
 (248) 324-4780

TICKET ORDER FORM

Single Admission Ticket: \$ 60 x _____ = \$ _____
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 Tables (8 seats per table): \$ 350 x _____ = \$ _____
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MEAL SELECTION

Beef: N.Y. Strip w/mushroom; Chicken: Chicken Piccata; Fish: Roasted Salmon; Veg: Vegetable Lasagna
 All meals served with green beans & garlic mashed potatoes. Appetizers & Desserts included.

Please PRINT names of attendees and circle their entree choice.

1. _____	Beef	Chicken	Fish	Veg
2. _____	Beef	Chicken	Fish	Veg
3. _____	Beef	Chicken	Fish	Veg
4. _____	Beef	Chicken	Fish	Veg
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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
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- Various educational offerings

To join the Women of ASPE special-interest group, email skidd@aspe.org
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The EWTS provides an opportunity to meet well-known experts. Participants are able to discover ideas and approaches about emerging technologies coming to market; learn about innovative green plumbing and mechanical concepts; view presentations; and engaged in timely discussions on how the water utility, manufacturing, engineering and trade industries have found solutions through emerging technologies for the water efficiency, plumbing and mechanical industries.

The Emerging Water Technology Symposium Conveners are seeking presentations from experts on the following topical issues:

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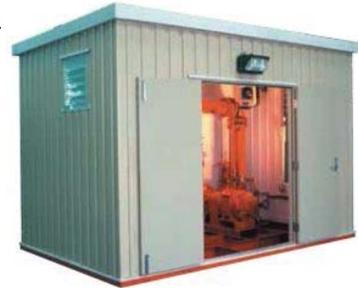
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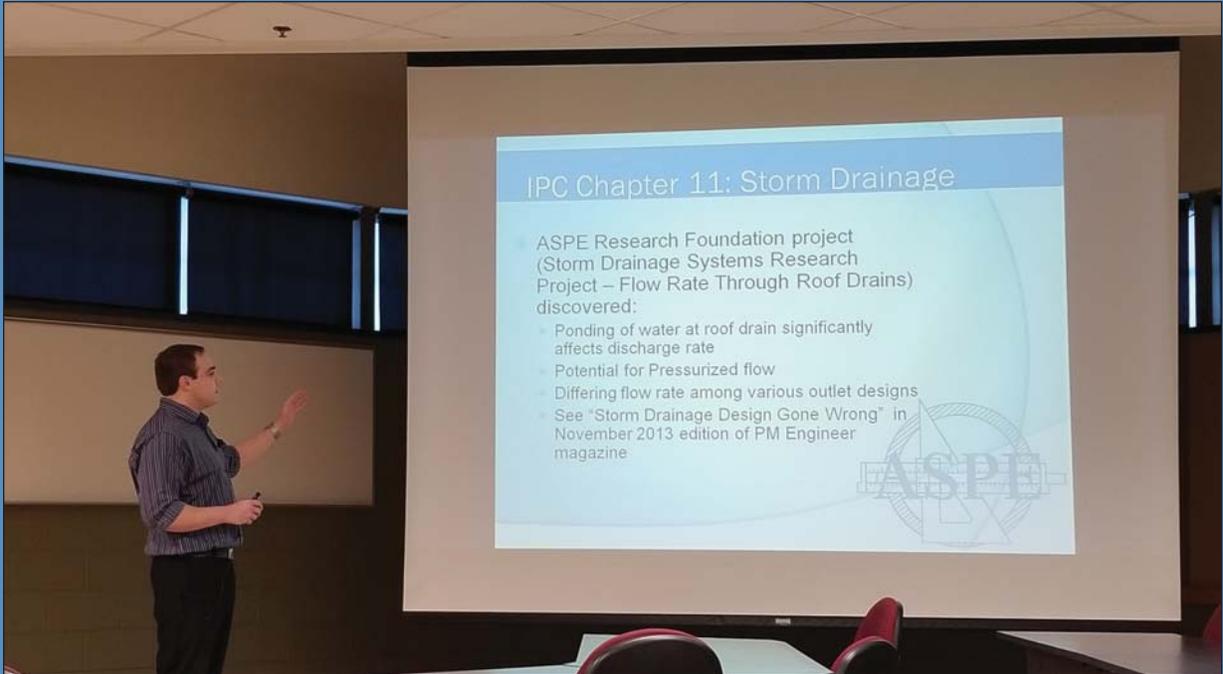
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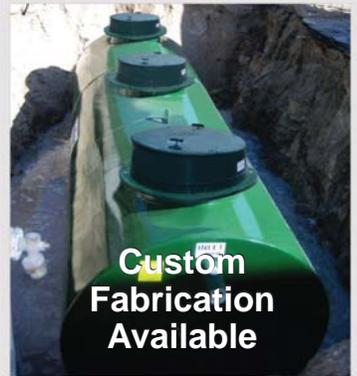
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Total books subject to incoming ICC Frgt charges **0**

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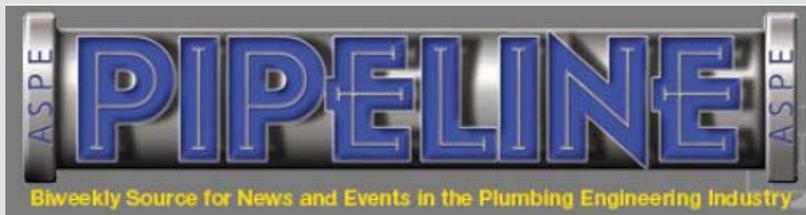
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