

SEPT. MEETING AGENDA

DATE

TUESDAY, SEPTEMBER 13, 2016

WHERE

Plumbing Industry Training Center
SEE map on back page

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

*Hydronic Fundamentals:
Pressure in Hydronic Systems*

[Vendor Table Top Discussions]

5:30 - 6:00 PM - DINNER

6:00 - 8:00 PM - TECHNICAL SESSION

*Heat Exchanger Selection and
Detailing*

Presenter:

NORM HALL | R.L. Deppmann Company

REGISTRATION REQUIRED

[Invitations to the Event Brite Registration](#)
[will be sent out to all members shortly.](#)

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



The year of the first female President has arrived....for the Eastern Michigan Chapter of ASPE!

For the members I have not yet had the opportunity to meet, I have served on the board for two years in the position of VP Technical and AYP Liaison. In addition to serving on our local ASPE Board, I am also involved with other local plumbing organizations such as ASSE Michigan Chapter, and the Code Study and Development Group of Southeastern Michigan. In future newsletters,

I will be writing an article about these organizations, as well as a newly formed group, and their goals.

As the former VP Technical, I would like to thank our membership for a successful 2015-2016 program! Over the past couple years, we have implemented improvements by streamlining the registration process, providing certificates as a proof of attendance for maintaining credentials, and most importantly providing both design and technical classes that provide members with information that assists them in their job. Our Board strives for continuous improvement to the programs for you and with your feedback, it will continue to evolve.

I am excited to welcome two new board members for 2016-2017: Theresa Allen, PE, CPD, LEED AP BD+C, GPD is serving as VP Technical and Kristin Simoneaux, PE, LEED AP, CPD is serving as VP Membership. This year we also have past board members that will take on new positions and others will remain on the board serving as directors.

I recommend that if you have considered being involved with the board to attend a board meeting. This is not a requirement however, it will help provide a better understanding of the responsibilities of the board positions and a behind the scenes look at the work the board completes, both for our local chapter and with the national society. If you are interested in attending, contact me any time during the year and I can provide you with date and location of the next board meeting.

Thank you to all our members who providing program feedback of future class suggestions, and to those who participated in the Summer Planning Session. Theresa's VP Technical article provides more information about our upcoming program. In addition to our monthly programs, we are planning a full day seminar on steam design this fall. The details for this full day seminar will be available soon.

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NEW ASPE EMC OFFICERS/BOARD MEMBERS

See last page for new officers and board members.

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 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

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.

President's Report (cont. from page 1)

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

The bi-annual ASPE Convention is being held in Phoenix, AZ from Thursday Oct. 27th – Wednesday Nov. 2. The expo and technical classes begin on Monday Oct. 31st, ending on Wednesday Nov. 2nd. A Green Plumbing Design workshop starts on Thursday Oct. 27th- Friday Oct. 28th, with the exam at the end of the course. Additionally, there will be a full day Woman of ASPE Leadership Forum held on Friday Oct. 28th. The business portion of the convention begins on Saturday Oct. 29th – Sunday Oct. 30th. Our chapter will be represented by 5 delegates who will attend committee meetings and attend the business meeting. If you would like any additional information about the convention, it can be found at this link:

<http://events.ntpshow.com/ASPE2016/Public/mainhall.aspx?ID=9270&sortMenu=101000>

Note that the early bird registration ends on Sept. 28th. If you do plan to attend, please let one of the board members know, we want to see you there!

As a final note, I'd like to thank Bill Grayzar, CPD for serving as our President for the past two years, as well as all of the board members for volunteering their time. I have found it rewarding to serve on the board with individuals who share a common goal and understand the importance of working as a team.

Enjoy the remainder of summer and I will be looking forward to seeing you at our September meeting.

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



**NEW MEMBER
~ WELCOME ~**

JAMES FELKER

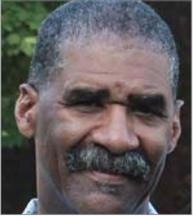


ASPE Journal

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

SEPT. DESIGN CLASS

TOPIC: HYDRONIC FUNDAMENTALS: PRESSURE IN HYDRONIC SYSTEMS



Presenter (on left): Paul Baker, Interim Director of the Plumber Training Center and past Instructor

Presenter (below): Michael Melaragni, Guardian Plumbing & Heating, and past Director of the Plumbing Industry Training Center



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 important to bring your MI Plumbing Code Book if you plan to attend.**

Code Book if you plan to attend.

Mr. Baker is currently Interim 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.

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.

SEPT. TECHNICAL PROGRAM

TOPIC: HEAT EXCHANGER SELECTION AND DETAILING



Presenter: Norm Hall, R.L. Deppmann Company, President

This presentation will cover selection and application of plate type, brazed plate, and shell and tube heat exchangers in plumbing, hydronic, and process systems. It will also include an opportunity to learn how to select, schedule, specify, detail, and heat exchangers. Norm will also identify the most frequent failures and some thoughts about how to prevent those failures.

Norm is President of the R.L. Deppmann Company. He has been with the company for more than 40 years and in that time has held positions in estimating, engineering, sales, and leadership. He is a member of the Eastern Michigan Chapter of the American Society of Plumbing Engineers, which presented him with the 2007 John E. Matthews Engineer of the Year Award. Norm is also a Past President of the ASHRAE-Detroit Chapter and a past president of the ITT Fluid Handling Representatives Association. Norm is a graduate of the Wayne State University Engineering School.



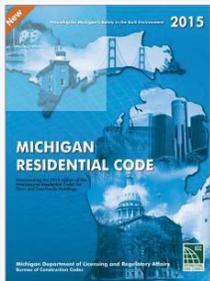
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IN THE KNOW



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

Non-Member \$139.00 per copy + shipping

Contact Dann Holmes at: (734) 214-6222 or dholmes@nsf.org

VP Technical Report

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



Hello from your new VPT!

Since I still consider myself new to the area, I would like to formally introduce myself to you all. My name is Theresa Allen and I moved here from Chicago just under a year and a half ago. I am originally from San Diego, but I moved to Chicago to attend Illinois Institute of Technology to get my bachelors and masters in Architectural Engineering. I stayed in Chicago about 9 years

after graduation and worked for a couple of really great firms, doing HVAC, plumbing, fire suppression and medical gas design for mostly commercial, healthcare and hospitality projects. I do hold my PE license in Illinois as well as Michigan, and my CPD along with some other minor certifications. (I'm on LinkedIn if you want to know more about my professional history)

I am presently working for IBI Group, in Southfield, and am learning all about Industrial work and how very different it is than what I did in Chi-town. I also have to learn all the new local product reps. and manufacturer's contacts! I have a lot of learning ahead of me to really integrate into your mechanical engineering world here.

Back in Chicago, I regularly attended my local ASPE meetings, and in the last couple years held the appointed positions of AYP Liaison, Newsletter Editor and Webmaster. I have always enjoyed participating in ASPE, as the members have always made me feel welcome and I always have so much fun getting to know other plumbing engineers! The Technical Symposiums and Conferences are always such a great experience and I have made good contacts and friends from all over the country. Although I have to focus more on getting my HVAC skills up to snuff here, I have always and will always have a soft spot for plumbing engineering.

I was lucky enough to get invited to attend some EMC board meetings last year - and I am even luckier to get to be your new VP Technical. Brianne has served you all well, and I hope to prove a worthy successor. I will also be taking over for Brianne for the AYP Liaison spot for our Chapter. We need to up the number of youths in our

membership and meeting attendance - so if you have a young engineer or intern at your company and they do not know about ASPE - please give them my contact or give me theirs and let's get them involved!

We have some good topics for this year's technical sessions, as you will see in the Program Booklets, and we will be trying out a full day seminar on steam design fundamentals as well. We are going to try and focus on going through more design examples during our sessions this year - to aid in information retention and how to apply these great design concepts to real world projects.

One big item to note is the dates for our meetings this year - we have made a concerted effort to try and avoid overlap with ASHRAE so we will not compete for general membership and meeting attendance. I am also helping out on the ASHRAE board this year, so I hope this can aid in communication between the two organizations.

That is all for now! I hope to meet you all at one of the meetings this year!

Cheers,

Theresa



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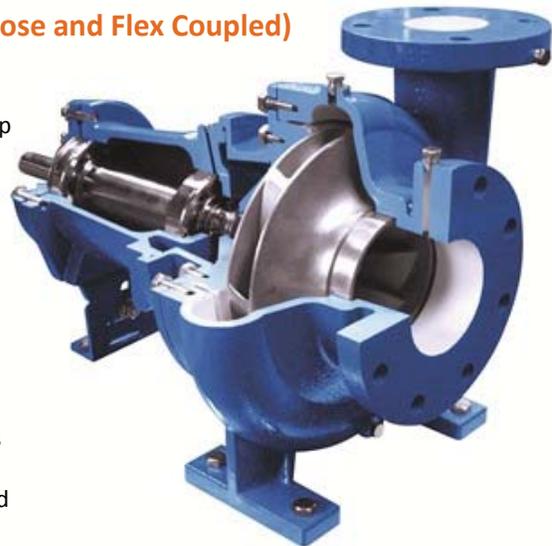
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VP Legislative Report

William Grayzar, CPD



On July 28, 2016 I attended the LARA (Michigan Department of Licensing and Regulatory Affairs) Electronic Plan Review Process Training, provided by the Bureau of Construction Codes (BCC). The training was a hands-on for an electronic web based procedure for the submission of building plan reviews, permit applications and licensing

renewals using Accela. Accela is a trusted and secure cloud based solutions software designed for government agencies. The electronic submission of permit applications and license renewals is expected to expedite traditional process; however, the traditional process is still an acceptable means of submission.

The electronic submission process is the beginning of LARA building an electronic database of building projects. The BCC is currently utilizing the electronic submission process in addition to the traditional process. If submissions are made using the traditional process, LARA will also be entering the information electronically into the Accela database.

Although the Bureau of Fire Services (BFS) is not currently utilizing the Accela program for reviews, they are expected to be including the electronic process very soon as an acceptable means of submission. At this time the BFS is still requesting submissions by hard copy. If you are providing submissions electronically for review to the BCC and a BFS review is required, you might want to follow up with the BFS to ensure they have received your submission from the BCC or if a hard copy sent directly to the BFS will be required.

The electronic submission processes begins with the creation of a user account. All the submissions provided will be linked to the email address used for the account. Accounts can be created as a personal account or as a company account. Each account allows for the generation of multiple users. So for large companies where multiple users are submitting drawings a company account with multiple users may work best. Whereas, a smaller company where a single individual or only a few individuals are responsible for making submissions a personal account might be better. Whichever style of account you choose to create, keep in mind that all communication from BCC will be provided through the account email address used. So if you have a company email, but it rarely look at, it might not be the best email to use for your account. Electronic notifications sent by email from LARA will require the applicant to access their user account to retrieve pertinent information.

For an electronic plan review, once the user account is created you will need to login and then select create an application and input the requested information. Please make sure to read all the instructions and disclaimers, which we all like to browse over, as they contain pertinent information, such as how the

electronic documents should be formatted for submission. Reading the instructions and disclaimers thoroughly could prevent your submission from being rejected and requiring resubmission. Electronic files are limited to a file size of 195 megabytes per file, in addition all drawings files must be uploaded under each divisional plan review requested. Also, only select the type of plan reviews required. For example, if a mechanical review is being requested, do not check the box for a separate fire sprinkler review as this is covered under the mechanical review process. However, if you have a project that only requires a fire sprinkler review and not mechanical then only check the fire sprinkler review box. The major review categories are building, mechanical and electrical. Many of the other review categories are included within the major review categories.

BCC will return all electronic submissions electronically. This will require the applicant to print a complete hard copy set of the approved electronic files to generate the approved set of documents required to be on the site during the construction process.

A nice feature of the electronic submission process is now you can save your uncompleted application and return to it at a later time to complete the submission. All of the information entered is editable until your reach the payment page. Once the payment page is completed and accepted all prior information will be locked in and cannot be changed without contacting the BCC directly.

Payments will now be required to be paid in full at the time of submission. Fees are calculated based on project costs and will be automatically tabulated. At the end of the submission process an invoice will be generated for payment due. Payment options include payment in full by credit card, paper check to be sent by mail, or IAB. Please note that LARA does not accept American Express.

Although, the electronic submission of permit applications and license renewals is expected to expedite the process, there are still some issues with the system. BCC is aware of numerous issues and is working to resolve them as quickly as possible. Some of the issues noted were: Due date information does not display correctly, a large error message is generated during the uploading process even though the upload is being completed, electronic comments from BCC placed on the drawing files to be returned to the applicant are moving to the corner of the drawing, in lieu is remaining in location generated.

The goal is to have the electronic issues resolved and for the BFS to incorporate the electronic filing process with the BCC by the end of the 2016 calendar year.

You should spend some time checking out the plan review section of the State's LARA's website for more information, prior to providing your first electronic submission.

Hopefully, this information will help make your first electronic review submission go a little smoother.

Bill

Affiliate Liaison Report

Dann Holmes, ASPE Region 2



Although we are in the dog days of summer, it is time to think about going back-to-school, college and the start of a new educational season by visiting your local ASPE chapter.

Most of you are aware each of the five ASPE regions holds their annual Chapter President's meeting in early June. I have been fortunate to attending these meetings since 2011. This year, the Cleveland Chapter was host to Region 2. It was a wonderful event. They showed some of the best Cleveland has to offer in a short time. They may have set a new standard for other chapters to emulate. Friendly competition amongst chapters is good for everyone.

Cleveland went to work on the manufacturers early to ask if they would be interested in sponsoring (supporting) the Region 2 Chapter Presidents Meeting. It sounded like a great idea! Why not, but like any good business decision one must ask "what's in it for me"?

Cleveland had the answer. Interaction! What would be better than to host a party, bringing everyone together into a social setting? This included reps, manufacturers, engineers, and presidents, V.P. technical, past presidents and their spouses.



The Cleveland Chapter made sure all sponsors were recognized. There were many. Here is the line-card listing them all. Our entire region thanks each and every one of them for their gracious support.



I would be remiss if I did not talk about the other great things we did in Cleveland. We attended an Indians baseball game with excellent seating that included access to unlimited food and beverages. Yes, we were walking. The game ended with a wonderful fireworks display.



After the game, many walked to a local bowling alley to indulge further into the areas entertainment.

The question now is what can we do as Region 2 to better support the companies that support us? We have some ideas and with any luck, we can reach out to these companies at a national level during the upcoming ASPE Conference and Expo in Phoenix, AZ.

The following day was all work that included additional acknowledgments from Keith Bush, CPD Region 2 Director. Two plaques were presented. The Pittsburgh Chapter was awarded for their outstanding educational training related to plumbing with the Boy Scouts of America. The Eastern Michigan Chapter for their work in opposition to an ongoing legislative effort by state officials not requiring annual inspections on residential backflow devices.

The bar has been set extremely high for The Eastern Michigan Chapter; they will be host to the 2017 Region 2 President's Meeting. Send in your suggestions now.



Regards,

Please reach out to me at:

Dann Holmes – ASPE Region 2 Affiliate Liaison

NSF International – Business Development Manager

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



The 2017 exam dates will be announced later in 2016.

VP Education Report

Mark Lamberson, CPD



I hope everyone is enjoying their summer. My family and I just returned from an extended vacation to Colorado. While we were there, my daughter asked to donate some time to a local wolf preserve called Mission: Wolf. This organization takes in wolves, and wolf-dog cross breeds from three sources; the movie industry, zoos, and individuals that cannot take care of them. Currently, they are harboring thirty

two animals at their facility, which is at the base of the Sangre de Cristo Mountains in south central Colorado.

We were told to arrive on Wednesday because it was feeding day, and they could use extra help on those days processing meat. We showed up at 8:45 a.m. and were given an orientation on how to act around the wolves and where the various necessities could be found. After orientation, we were informed that we would be processing a horse that had just passed away at a local ranch. The owner felt it was an honor for the horse to be reentered into the circle of life by giving its body to these apex predators. As we approached the trailer where the horse carcass was now being displayed in the mid morning Colorado heat and sun, I felt an urge to announce that I had other skills that may be more advantageous than my butchering abilities. With an onslaught of Boy Scouts descending on the trailer, the staff was more than willing to listen to my qualifications. With the word "Plumber," we were whisked away to meet the man who started with one wolf and developed it into the wonderful sanctuary it is today, Kent Weber.

Kent immediately took us to one of the high points in the sanctuary where he had a good vantage point of the facility and how its plumbing system operated. A variable voltage, solar powered well pump lifts water from a seventy five feet deep well up the mountainside to a 1200 gallon storage tank. This tank is fitted with a float valve that diverts the flow of water to an irrigation pond when the tank is full. The irrigation pond drains by gravity through gardens, and other points of use, that aid in the sustainability of the off-grid facility.

The storage tank itself drains by gravity to a staff facility, veterinary clinic, greenhouses, and various yard hydrants. Mission: Wolf is in a remote location with no power or community water available, and all volunteers travel from around the world to camp during their stay.

Kent is about to take delivery of a 2400 gallon storage tank that will be placed higher up the mountainside. A typical issue on the property is a plumbing fixture being inadvertently left open and the tank running empty. In these instances, the daily operations are hindered by the added work of carrying water to distribute it. The new tank will be placed into service as the primary tank and will overflow into the smaller tank as a reserve. The operation of the system will be as it was from that point.

Water heating and comfort heat in the staff house are handled with solar panels on the roof of the staff building. In the two hundred and seventy days of sun experienced at the property, this system manages quite well. Water gardens in the greenhouses provide humidity and irrigation for the various vegetable gardens housed inside.

It was our job to dig the trench that the outlet pipe will be buried in. It was about twenty feet long, and eighteen inches deep through rocky soil during the heat of the day. We accomplished most of it during our one day stay with picks and tunneling spades. I also informed Kent about the use of PEX tubing, in lieu of the black poly well pipe they had been using. With the rocky soil conditions, water piping is not buried very deeply and there is a high freeze potential. PEX's ability to withstand freeze thaw cycles makes it ideal for his application.

There was an in-person wolf meet and greet that was immediately followed by the feeding. The meet and greet was a moving experience, with three wolves in an enclosure with a group of visitors. The feeding was as intense as a scene from a wildlife documentary. But these are not the highlights of this article. I would, however, recommend a visit to Mission: Wolf if you are planning a trip to Colorado or a visit to their web site if you are not. It is both a lesson in sustainability and humanity.

<http://www.missionwolf.org/>



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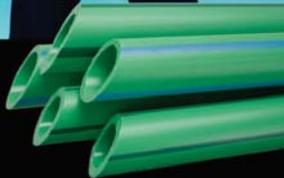
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ASPE

2016 CONVENTION & EXPO | PHOENIX

CONVENTION: Oct 28 – Nov 2 EXPO: Oct 31 – Nov 1

WHAT:	<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>
WHO:	<p>Attendees include:</p> <ul style="list-style-type: none">• Designers• Engineers• Specifiers• Contractors• Wholesaler/distributors• Architects• Master plumbers• Students
WHERE:	<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">• Sheraton Grand Phoenix• Hyatt Regency Phoenix
WHEN:	<p>Convention: October 28 – November 2, 2016</p> <p>Exposition:</p> <p>October 31, 2016 11:00 am – 5:00 pm November 1, 2016 10:00 am – 3:00 pm</p>
WHY:	<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">• 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.• 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.• An enhanced mobile app for 2016 makes it even more efficient to make the most of your attendee experience.• Catch up with plumbing engineering design innovators and peers at numerous networking events including a special party at the Corona Ranch & Rodeo Grounds. Join your fellow attendees and exhibitors for the ultimate Arizona experience that includes music, drinks, food, and dancing!
WEBSITES & LINKS:	<p>2016 ASPE Convention and Exposition: www.aspe.org/expo</p> <p>ASPE www.aspe.org</p> <p>Facebook: https://www.facebook.com/AmericanSocietyofPlumbingEngineers</p> <p>Twitter: http://twitter.com/ASPEorg</p> <p>LinkedIn: http://linkd.in/ASPELinkedIn</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.

BALFREY & JOHNSTON, INC.

Manufacturers' Representatives
13050 Northend
Oak Park, MI 48237
George D. Johnston
Ph 313 864-2800 Fax 313 864-7219
george@balfrey-johnston.com
www.balfrey-johnston.com

KERR PUMP AND SUPPLY

Manufacturers' Representatives
12880 Cloverdale
Oak Park, MI 48237
Chad Kundering
Ph 248 543-3880 Fax 248 543-3236
Mobile 734 812-9490
chad@kerrpump.com

BURKE AGENCY, INC.

Manufacturers' Representatives
2605-A Oakley Park Road
Walled Lake, MI 48390
Brian Burke, Tom Zimmerman, John Taylor
Ph 248 669-2800 Fax 248 669-3310
bburke@burkeagency.com
www.burkeagency.com

MAJOR/LOZUAWAY & ASSOCIATES, INC.

Manufacturers' Representatives
1117 W. Grand Blanc Rd.
Grand Blanc, MI 48439
Mike Ostrowski
Wayne Phillipotts
Ph 810 234-1635 Fax 810 234-8389
moski@lozuaway.com

DALE PRENTICE COMPANY

Manufacturers' Representatives &
Application Engineering Solutions Provider
26511 Harding Avenue
Oak Park, MI 48237
Michael Cullen Cell 248 302-5924
Ph 800 536-4700 Fax 248 339-5559
mcullen@prenticeco.com - www.prenticeco.com

MEEK / BECK & ASSOCIATES, INC.

Manufacturers' Representatives
11875 Belden Court
Livonia, MI 48150
Ross Beck
Ph 734 458-2950 Fax 734 458-2953
info@meekbeck.com
www.meekbeck.com

DAVE WATSON ASSOCIATES, INC.

Manufacturers' Representatives
1325 W. Beecher St.
Adrian, MI 49221
Dave Watson, Jr.
Ph 517 263-8988 Fax 517 263-2328
dwa@davewatson.biz

PAULA A. BAKER

ASSE Region #4 Director - Mid West
ASSE International
18927 Hickory Creek Drive, Suite 220
Mokena, IL 60448
Ph 313 399-3072 Fax 248 585-1437
paul.baker@ualocal98jatc.org
www.asse-plumbing.org

**DIVERSIFIED SPEC. SALES, INC./
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Manufacturers' Representative
13261 Northend Ave.
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Michael J. Burdette
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www.diversifiedspec.com

PERFORMANCE ENGINEERING GROUP

Engineered Water Products
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Livonia, MI 48150
Alan Deal
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www.performanceengineering.com

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Manufacturers' Representatives
56 S. Squirrel
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www.Plumb-TechLLC.com

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Manufacturers' Representatives
7450 Hessler Dr. Rockford Mi 49341
Dave Andrus 616-916-4140 andrus.progressive@gmail.com
Matt Johnson 517-614-1448 mjohnson.progressive@gmail.com
Doug Shaffer 248-648-0187 shaffer.progressive@gmail.com
www.progressivemarketingandsales.com

TAGGART-KNIGHT GROUP

Manufacturers' Representatives
32985 Hamilton Court, Suite 102
Farmington Hills, MI 48334
Gary O. Taggart
Ph 248 553-4388 Fax 248 553-4653
info@taggartco.com
www.taggartknight.com

R.L. DEPPMANN COMPANY

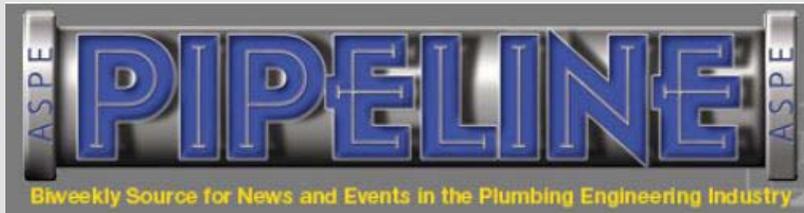
Manufacturers' Representatives
20929 Bridge Street
Southfield, MI 48033
Chris Lieder, Gerry Potapa Jr., CPD,
Mark Fine LEED AP®, Paul Prentice, LEED AP®
Ph 800 589-6120 Fax 248 354-3763
sales@deppmann.com - www.deppmann.com

QUALITY WATER & AIR, INC.

Manufacturers' Representative
1402 Souter
Troy, MI 48083
Georgann Kummer
Ph 248 589-8010 Fax 248 589-8016
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American Society of Plumbing Engineers-Eastern Michigan Chapter

Theresa Green, Newsletter Editor
MCA Detroit / tgreen@mcadetroit.org

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Region 2 - Great Lakes
Eastern Michigan

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2016-2017 ASPE EMC Board and Committee Chairpersons

President

Brianne Hall, P.E., CPD, LEED
AP BD+C, GGP
FTC&H
39500 Mac Kenzie Dr. Suite 100
Novi, MI 48377
(248) 324-4780
bnhall@ftch.com

Vice President Technical

Theresa Allen, P.E., CPD, LEED
AP BD+C, GGP
IBI Group
25200 Telegraph Rd., Suite 200
Southfield, MI 48033
(248) 936-8000
theresa.allen@ibigroup.com

Vice President Legislative

William Grayzar, CPD
28150 Greenfield Rd.
Southfield, MI 48076
(248) 569-1430 ext.333
bill@dsonline.com

Vice President Membership

Kristin Simoneaux, P.E., CPD,
LEEP AP
Stantec
2338 Coolidge Hwy. #100
Berkley, MI 48072
(248) 336-4700
kristin.simoneaux@stantec.com

VP Education

Mark Lamberson, CPD
81190 Church Street,
Memphis, MI 48041-5401
(810) 392-5010
vpe.aspe.emc@gmail.com

Treasurer

Hank Koppelo, CPD
Bill James Plumbing, Inc.
25519 John R Road
Madison Heights, MI 48071
(248) 548-1500
hkoppelo@billjamesinc.com

Administrative Secretary

Amanda Belcher, LEED GA
Strategic Energy Solutions
4000 W. Eleven Mile Rd.
Berkley, MI 48072
(248) 399-1900 Fax 399-1901
amandab@sesnet.com

Corresponding Secretary

George D. Johnston
Balfrey & Johnston, Inc.
13050 Northend
Oak Park, MI 48237
(313) 864-2800 Fax:
864-7219
george@balfrey-johnston.com

Chaper Affiliate/Liaison

Dann Holmes
NSF International
789 N. Dixboro Rd
Ann Arbor, MI 48105
(734) 214-6222
r2al@aspe.org

Board Member

Cindy Zatto, FASSE
V. E. Sales Company, Inc.
25200 Jefferson Ave.
St. Clair Shores, MI 48081
(586) 774-7760 Fax: 774-1490
cindy@vesalesinc.com

Board Member

Michael Melaragni, CPD
Guardian Plumbing & Heating
34400 Glendale Avenue
Livonia, MI 48150
(734) 513-9550

Board Member

Joseph V. Hernandez, CPD
7360 Katrin Drive
Bloomfield, MI 48322
(248) 539-7665
joeh7360@gmail.com

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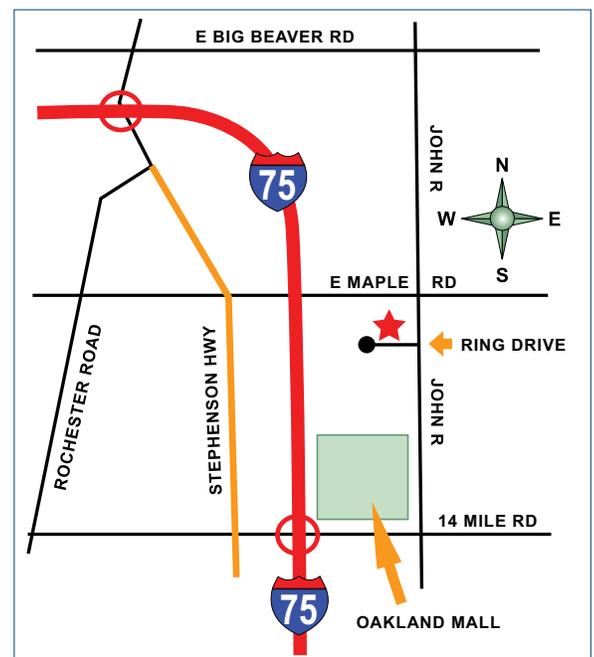
Pam Hartsell, CPD
Strategic Energy Solutions
4000 W. Eleven Mile Rd.
Berkley, MI 48072
(248) 399-1900 x 222
Fax: 399-1901
p_hartsell@yahoo.com

Chapter Historian

John Nussbaum, IPP, FASSE, FASPE

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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