

## OCT - MEETING AGENDA

**DATE:**

**TUESDAY, OCT. 11, 2022**

**WHERE:**

*IN-PERSON ONLY*

**Plumbing Industry Training Center  
in Troy, MI**

**5:00 PM - 5:50 PM**

**Venting Session #1 - Fundamentals of  
Venting and Individual Vents**

**5:50 PM - 6:15 PM**

**Vendor Table Top Presentations**

**6:15 PM**

**Dinner Service**

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

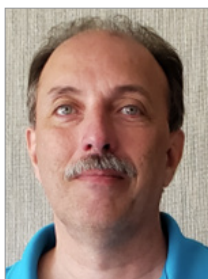
**Design on Medical Gas Valves & Zone  
Valve Boxes/Ala Design and Distribution**

### REGISTRATION REQUIRED

**IN-PERSON:** <https://www.eventbrite.com/e/aspe-emc-october-2022-technical-program-tickets-426916487707>

SEE INSIDE COVER FOR TABLE OF CONTENTS

## William Grayzar, CPD, GPD, FASPE President of ASPE EMC



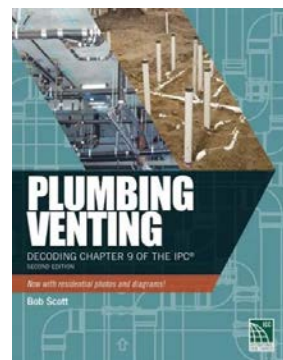
If you attended the 2022 Convention in Indianapolis, I am sure you had a great time interacting with colleagues and gaining a wealth of knowledge from the technical sessions provided. Please feel free to pull me aside at our next chapter meeting and share your convention experience. I am always looking to see if the things national is doing are working or not, so we can improve as a society.

Our chapter and its members received numerous awards at the national Convention among those were the following:

The national societies “ASPE Chapter Humanitarian Award” which recognizes and honors ASPE Chapters that have unselfishly given back to the local community and them for their altruism and benevolence. Thanks to all the chapter members that go above and beyond to help the local community.

Also, a “Special Award of Achievement” was given to chapter member Theresa Card for her extraordinary service and dedication to the future of ASPE’s certification programs and the Women of ASPE (WOA). Congratulations Theresa!

Just a reminder, starting in October at our chapter meeting on the 11th, will be the first of the series of seven (7) Plumbing Venting Design Classes. Class will begin promptly at 5:00 PM at the PITC and will cover “Fundamentals of Venting and Individual Vents”. Please remember to bring your 2018 Michigan Plumbing Code (MPC) book with you. Don’t have a copy of the 2018 MPC, you can order one at the meeting from the Code Study Development Group of Southeastern Michigan. Remember all Chapter members who attend all seven (7) venting classes will receive a free soft cover copy of “Plumbing Venting Decoding Chapter 9 of the IPC” second edition by Bob Scott.



Our technical program on October 11th will cover “Design on Medical Gas Valves & Zone Valve Boxes/Alarms” and will be provided by Josh Pedraja of Pattons Medical.

*Continued on page 2*

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**OCTOBER BOARD MEETING**

Virtual Online Meeting  
**Tuesday, 10/4/22, 4:30 PM**

**OCTOBER PROGRAM**

**In-Person Only**  
**Tuesday, 10/11/22, 5:00 - 7:30 PM**

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

Contact ASPE National for more informa-  
 tion at (847) 296-0002,  
 or email [info@aspe.org](mailto:info@aspe.org)

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

Bill Grayzar, CPD, GPD

Josh has sixteen years of experience in the medical gas industry. If you do design or construction in the medical field this is a meeting, you won't want to miss.

I look forward to seeing you at the Plumbing Industry Training Center on October 11, 2022.

*Bill*



\*\*\*\*\*

## Record-breaking New Membership

**LATEST NEW MEMBERS  
~ WELCOME ~**

**DENNIS GUNDICK  
 JOSE CABELLO  
 ZAK BONDY  
 DARREN GAREY  
 JESSE GRIFFIN  
 TYLER PALCHAK  
 SCOTT ROBERTS  
 ADRIENNE BENNETT**

## **OCTOBER DESIGN SESSION**

**5:00-5:50 PM**

### **TOPIC: Venting Session #1 - Fundamentals of Venting and Individual Vents**



*Michael Melaragni*

Presenter: **MICHAEL MELARAGNI**,  
*former Director, Plumbing Industry training Center*

Michael Melaragni has numerous years of experience in the industry. He is a certified instructor of journey workers and apprentices and a certified training coordinator with the United Association of Plumbers and Pipefitters, a licensed Master Plumber with the State of Michigan and is the former Director of Training for Plumbers Local 98 Apprenticeship program.



*Rob Murley*

Presenter: **ROB MURLEY**,  
*Instructor, Plumbing Industry Training Center*

Rob Murley is a licensed journeyman plumber and member of UA Local 98 in Detroit Michigan. He is a full time instructor at the Plumbing Industry Training Center and fulfilled his apprenticeship with Local 98 between 2004-2009. Rob's experience stretches from light commercial work to heavy industrial work. Working on schools, restaurant/retail stores, apartments/lofts, hospitals, auto plants, blast furnaces, and several projects at the U.S. steel main plant throughout his career. Murley has also worked as foreman on various jobs, including running crews on larger jobs to running entire jobs. Rob has been a full time instructor at our training facility since May of 2021. Some of the classes he instructs are: Trade Related Math; Pipes; Fittings; Valves and Fasteners; Use and care of tools; Drainage; Michigan State Plumbing Test Prep; Tube Bending; Natural Gas Piping and Venting; and UA Star Exam Preparation. Currently Murley is transitioning to add in the Science and Water Supply classes. Certification include Medical Gas Installation and Backflow Testing. Murley is currently working towards becoming a certified instructor for these classes.

## **OCTOBER TECH SESSION**

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

### **TOPIC: Design on Medical Gas Valves & Zone Valve Boxes/Ala Design and Distribution**

Description: All Medical Gas Design focuses around valves; this presentation will provide an overview of MedGas Design for Medical Valves, including Zone Valve Boxes, Auxiliary Valves, Source Valves, Main line Valves and Service Valves. Closely connected with valves is the design and placement of associated products to help with overall design. This will provide a glance at not only where each valve is placed, but where outlets and alarms are placed as well per NFPA99 Code.



*Josh Pedraja*

Presenter: **JOSH PEDRAJA**,  
*Medical Gas/Lab Consultant, Pattons Medical and ASPE EMC - VP Membership, Cor. Sec. and VP Social media*

Josh Pedraja has 16 years' experience in the Medical Gas industry with various roles such as Service Coordinator, Inside Sales, Customer Support and Outside Sales. He also has a little background in industrial vacuum applications. He holds a bachelor's degree from Trinity International University in Deerfield, IL with an emphasis in music and education. His education background is utilized when working with engineering firms as a Medical Gas Consultant and with ASPE education. He currently represents (very proudly) Patton's Medical where he covers the Central US by working with engineering firms, contractors, medical facilities/lab facilities, distributors and service partners. He is the National Account Manager for a major health network and works very closely with every facility nationwide. Some of his recent accomplishments include helping create medical vacuum & air systems sizing standards for the same national health network he helps oversee and has worked with the Federal Emergency Management Agency (FEMA) on designing and building of mobile hospital trailers to treat COVID hotpots and natural disaster relief efforts. Josh is very active with ASPE as current VP Membership with his home chapter of Eastern Michigan and active with additional memberships for the Cleveland and Central Ohio Chapters. He resides in NW Ohio.

### **New This Year:**

**Venting Classes - attend all 7 to earn a venting design manual.**

### **About Registration and CEUs:**

**You will need to register using an Eventbrite link that will be in the email. This allows us to know how many people we can expect. We require sign in/sign out sheets and your CEUs will be submitted to national within 1 week of our event. It may take up to another 2 weeks for the CEUs to show in your ASPE Education log. The PITC does have guest protocols we will have to obey in order to meet there, so please follow all posted signage and procedures.**

# IN THE KNOW

## EMC 45TH ANNIVERSARY HISTORY BOOK IS STILL AVAILABLE!

Cost for printed book - \$50, check or credit card accepted

Pick up @ SES or during a chapter meeting

FREE digital download on the ASPE EMC website.

## TABLE TOP SPONSORSHIP PRICING

### ASPE Members

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

### Non-Members

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

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



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C (616) 293-2121	C (616) 706-1481	C (613) 633-2609	C (734) 673-2119				
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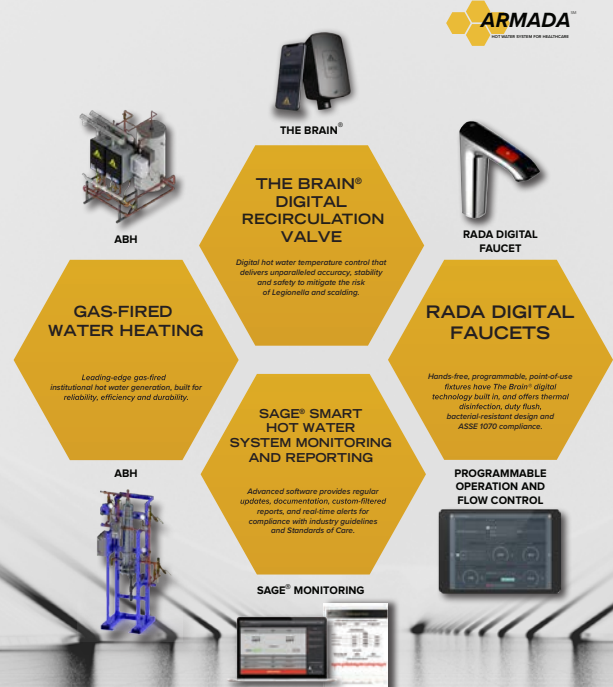
- CLEAN**
  - Touch-free activation
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  - Liquid and foam soap

- RINSE**
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## ASPE-EMC Chapter and Members Recognized for Their Achievements During the 2022 Convention

### Theresa Card – Special Award of Achievement

Special Award of Achievement: Theresa Lyn Card, PE, CPD, GPD, LEED AP, Eastern Michigan Chapter, for her extraordinary service and dedication to the future of ASPE's certification programs and the Women of ASPE (WOA)

### Bill Grayzar – Special Award of Appreciation

Special Award of Appreciation: William A. Grayzar, CPD, GPD, FASPE, Eastern Michigan Chapter, for his extraordinary service and dedication to the future of ASPE's Nominating and Legislative Committees along with his unwavering support of the Society

### Bill Grayzar – Inducted into the College of Fellows

### Brianne Hall was reelected to the National Board as Society VP Legislative!

### EMC 2021-2022 Chapter Board – Education & Research Foundation Award

The Education and Research Foundation recognizes chapters that have generously donated in support of research projects concerning areas of interest in the plumbing technology and design field.

### EMC 2021-2022 Chapter Board – Chapter Humanitarian Award

This award recognizes and honors ASPE Chapters that have unselfishly given back to the local community and them for their altruism and benevolence.

### EMC 2021-2022 Chapter Board – Chapter Award of Merit

ASPE's annual Chapter Award of Merit is presented to recognize extraordinary contributions made by the Chapters on behalf of the Society.

**Congratulations to All! - photos on pgs. 15-19**

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# VP Technical Report

**Pam Hartsell, CPD, PMP**



Welcome to Fall Eastern Michigan!

Many of your Chapter Board Members just returned from the 2022 ASPE Convention in Indianapolis, and it was fantastic! Not only did we enjoy some great learning opportunities, we also took home a ton of awards and put on a super exciting pinewood derby race! The EMC

once again showed our strength, both in number of attendees and recognition for our chapter. Now that it's over, we're already gearing up for the Tech Symposium next fall in Bellevue, WA. If you have the chance to attend, put it on your calendar and join us next year!

September was a great start to the 2022-2023 Program Season. We had an informative Design Class on Types of Valves, and an interesting Technical Session on Digital Mixing Valves. We had a full room for the meeting, including 8 tabletop sponsors and a demonstration trailer! If you missed the meeting, no need to worry. You can view a recording of both sessions on our YouTube Channel at the following link for the September 2022 Chapter Meeting recording: <https://youtu.be/PR-u91tiutk>

October will mark the start of our Venting Series: Fundamentals of Venting and Individual Vents, taught by our very own PITC plumbing instructors, Mike Melaragni and Rob Murley! If you're able to attend the design classes, please bring your copy of the 2018 MI Plumbing Code for reference.

If you don't have one yet, code books will be available for purchase at the meeting. Note that the venting classes are proprietary so they will NOT be recorded. Good venting design is a skill developed through education and experience, so if you wanna know – you gotta show!

Also, new this year, we'll be offering anyone who attends all 7 venting classes a free book on venting design from the ASPE bookstore! This is a great opportunity to brush up on your venting skills or introduce a less experienced colleague to ASPE and plumbing design. Help us spread the knowledge by bringing a friend to a chapter meeting.

October will also feature a Technical Presentation on the design of Medical Gas Zone Valves and Zone Valve Boxes/Alarms, given by our very own VP Membership – Josh Pedraja of Patton's Medical. Josh is a great speaker with a true passion for his work. If you're new to med gas, this meeting is where you want to be! You can register for the in-person event at the link below:

<https://www.eventbrite.com/e/aspe-emc-october-2022-technical-program-tickets-426916487707>

Things are looking bright in Eastern Michigan! Please reach out to me if I can do anything to help get you and your co-workers to a chapter meeting!

Your Chapter VP Tech,  
Pam Hartsell  
[vpt.aspe.emc@gmail.com](mailto:vpt.aspe.emc@gmail.com)

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The only news site dedicated exclusively to ASPE, our members, and the plumbing engineering industry

# WOA/AYP Report

Theresa Card, P.E., CPD, LEED AP BD+C



The Joint Eastern Michigan WOA and AYP (Women of ASPE and ASPE Young Professionals) Event was held September 7th!

Thank you Bob Taylor and McWayne Plumbing for a great event! We had good food, some drinks and then managed to break out of our Escape Room!

Stay tuned for more WOA and AYP chapter events this year!



**Women  
of  
ASPE**

Engaging, retaining and advancing women in the industry.

**Become involved, contact a board member or go to:**  
<https://www.aspe.org/membership-global-community/membership/special-interest-groups/women-of-aspe/>

click these links for more info



**ASPE  
YOUNG  
PROFESSIONALS**

Engaging, retaining and advancing young professionals in the industry.

**Become involved, contact a board member or go to:**  
<https://www.aspe.org/membership-global-community/membership/special-interest-groups/ayp/>

# VP Membership Report

Josh Pedraja



Being a member of ASPE has many benefits including:

- ✓ ASPE Plumbing Engineering Design Handbook
- ✓ Bi-monthly subscription to Plumbing Systems & Design magazine
- ✓ ASPEReport (in Plumbing

Engineer magazine)

- ✓ Members Only ASPENet Access (includes access to ASPE Data Books chapters)
- ✓ Publications and Education Programs Discounts
- ✓ ASPE Biennial Convention and Exposition (even years)
- ✓ ASPE Biennial Technical Symposia (odd years)
- ✓ Technical Seminars and Workshops
- ✓ Access to Earn Continuing Education Units (CEUs)
- ✓ Technical Books and Manuals (specific to the profession of plumbing engineering).
- ✓ Professional Certification / Recertification
- ✓ Continuing Education Opportunities in Plumbing Engineer magazine
- ✓ Alfred Steele Scholarship Program
- ✓ Local Chapter Affiliation

- ✓ Monthly Chapter Meetings and Technical Seminar Opportunities
- ✓ Networking Opportunities with Plumbing Engineers Worldwide
- ✓ Leadership Opportunities (Board of Directors, Region Chairs, Chapter Officers, Committees)

This month we will focus on **ASPE Connect**. Did you know that as Members you have full access to daily emails within ASPE? ASPE Connect is an online forum where you can ask industry specific questions and receive answers and help from everyone involved nationwide! There are a few engineers who dedicate a lot of their time to answering and helping with those in need of answers to any project they might be currently working on. It's a great way to network within the online forum and gain valuable knowledge.

Once you're signed up, you have the option to receive daily emails first thing in the morning with updated topics and responses to questions that have been asked. Even if you do not participate, it is always interesting to see the conversations that occur. There are other forums to join such as Fire Protection Topic Community and Medical Gas Topic Community.

The link to sign up is <https://connect.aspe.org/home>

If you are not a member of ASPE yet and are interested, please let us know!

Coming Soon!  
EMC's First Annual  
Golf Outing!



Please let us know if you're interested in serving on our Golf Committee or if you'd like to sign up as a sponsor!!

Please Contact Josh Pedraja; [vpm.aspe.emc@gmail.com](mailto:vpm.aspe.emc@gmail.com)





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CSA B 125.3 (NSF/ANSI 61 Section 8)



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## Building Storm Load

A building storm load is the first data that needs to be provided to the civil engineer before or at the beginning of a project design phase. This data is provided in GPM or CFS.

*What would be the building GPM, or CFS storm load?*

Code books sizing tables define the correct load size based on actual rainfall records from the National Oceanic and Atmospheric Administration/National Weather Service (NOAA). These records are presented in a convenient form leaving the common equations and process to obtain this information practically forgotten.

However, because some municipalities have amendments to the official rainfall rates it is very important to know how these storm loads are obtained is fundamental information that all the plumbing designers and engineers should know.

Code sizing tables provide pipe sizes based on building exposed areas (100% Horizontal and 50% of Vertical), and the rain precipitation in inches per hour based on a 100 year storm obtained data.

The calculated building GPM load will be added to the site storm load and the obtained total will determine if the expected storm drainage would be effectively handled by the existing street storm main, or if a detention system will be required to control the flow into the municipality storm system.

[Note: The following storm calculation is for equivalent roof area, [Horizontal plus Vertical exposure] and it only applies for the building load. For exterior rainwater catchment the storm water sewer from the building wall to the property line; use the Rational Method formula, where  $Q = CIA$

$Q$  = Storm Water Runoff (in cubic feet per second)

$C$  = Coefficient of Runoff

$I$  = Rainfall Intensity (in inches per hour)

$A$  = Area of Drainage Zone (in acres)}

Here is a quick applied example in our field:

**The amount of water in gallons for one square foot with water 1" deep is 0.623 gallons.**

A rainwater flow rate of one inch per hour = .0623 GPH divided by 60 minutes = 0.01038333 GPM (0.0104).

*An office building has an equivalent roof area of 22,500 square feet.*

*Define storm GPM and/or CFS, and Drainpipe size, if the rainfall rate is 4"/hr.*

$GPM = .0104 \times I \times Area$

$I$  = Rainfall Intensity- inches/ hour

$A$  = roof area- Square Feet

0.0104 + conversion factor- GPM/sq. ft. for one inch/hr. rainfall

TABLE 1106.2 STORM DRAIN PIPE SIZING

PIPE SIZE (inches)	CAPACITY (gpm)				
	VERTICAL DRAIN	SLOPE OF HORIZONTAL DRAIN			
		1/16 inch per foot	1/8 inch per foot	1/4 inch per foot	1/2 inch per foot
2	34	15	22	31	44
3	87	39	55	79	111
4	180	81	115	163	231
5	311	117	165	234	331
6	538	243	344	487	689
8	1,117	505	714	1,010	1,429
10	2,050	927	1,311	1,855	2,623
12	3,272	1,480	2,093	2,960	4,187
15	5,543	2,508	3,546	5,016	7,093

1 CFS = 448.831 GPM

Therefore:

- a. - 4" rainfall per hour
- b. - 22,500 sq. ft. equivalent roof area.
- c. - GPM= .0104 x 4 x 22,500 sq. ft. = **936 GPM**
- d. - 936 / 448.831 = **2.085 CFS**

Per IPC code requirements.

**12"Ø** drainage pipe, for 936 GPM

(4" inch/hr. rainfall for 22,500 equivalent square feet storm load).

Always verify the rain/hour ratio with the local AHJ. The storm intensity where the project is located may have different precipitation loads due to a local combination of wind patterns with the geological landscape.

Here is some complementary water information, that could influence a building design.

### Water Equivalents (approximate)

The following equivalents show the relationship between the volume and weight of water and between the volume and speed of flowing water.

### Volume and weight

One inch of rain falling on 1 acre of ground is equal to about 27,154 gallons and weighs about 113 tons.

An inch of snow falling evenly on 1 acre of ground is equivalent to about 2,715 gallons of water.

However, based upon the "rule-of-thumb" that 10 inches of snow is equal to 1 inch of water,

This value can vary considerably, depending on whether the snow is heavy and wet, or powdery and dry.

Heavy, wet snow has a very high-water content—4 or 5 inches of this kind of snow contains about 1 inch of water. Thus, an inch of very wet snow over an acre might amount to more than 5,400 gallons of water, while an inch of powdery snow might yield only about 1,300 gallons.

One acre-foot of water (the amount of water covering 1 acre to a depth of 1 foot) equals 326,000 gallons or 43,560 cubic feet of water and weighs 2.7 million pounds.

One cubic mile of water equals 1.1 trillion gallons, 147.2 billion cubic feet, or 3.38 million acre-feet, and weighs 9.2 trillion pounds (4.6 billion tons).

### Article Submitted By:

J. Francisco DeHoyos, CPD, FASPE

ASPE Society Legislative Committee Co-Chairman

# SEPTEMBER MEETING

## THANK YOU TO OUR ATTENDEES!

Ross Beck  
Chip Bidigare  
Jose Cabello  
Bill Campbell  
Rick Cota  
Rachel Gendich  
Larry Gifford  
Vera Gjokaj  
Noah Gjokaj  
William Grayzar  
Pamela Hartsell

Todd Hiler  
Thomas Huck  
Jake Jankoska  
Nick Jett  
George Johnston II  
Mike Kennedy  
Jessica Laming  
Jerry Martin  
Michael Melaragni  
Ossie Motton  
Rob Murley

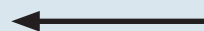
William Parker  
Joshua Pedraja  
Brenda Pesmark  
Gerry Potapa  
Paul Prentice  
Scott Roberts  
John Taylor  
Kyle Tevault  
Robert Thomas  
Frank Tistle  
Cindy Zatto

## EDUCATION AND CREDENTIALING

CPD-Certified in Plumbing Design

CPDT-Certified Plumbing Design Technician

GPD-Green Plumbing Design



Click on the credential  
to obtain more info.

# SEPTEMBER MEETING PHOTOS



**Speaker Bob Thomas presented Types of Valves**



**Speaker Rick Cota presented Digital Mixing Valves**

# SEPTEMBER MEETING PHOTOS



**Speaker Bob Thomas receives a certificate of appreciation from Chapter President Bill Grayzar**


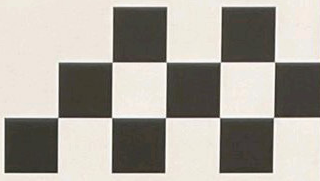


**Speaker Rick Cota receives a certificate of appreciation from Chapter President Bill Grayzar**

# ASPE CONVENTION PHOTOS




35 Chapters participated!








## ASPE Racing at Indy


➤ TUESDAY, Sept. 20 // 8:15 – 10:15 A.M.



	1st Place –	HAMPTON ROADS	3 3299
	2nd Place –	VIRGINIA BLUE RIDGE	3 3656
	3rd Place –	CENTRAL OHIO	3 4166

	REGION 1 Fastest –	NEW YORK CITY	3 4173
	REGION 2 Fastest –	JOHNSTOWN	3 4262
	REGION 3 Fastest –	ATLANTA	3 4458
	REGION 4 Fastest –	SEATTLE	3 4679
	REGION 5 Fastest –	OMAHA	3 4432

Thanks to the Eastern Michigan Chapter ◀



**EASTERN MICHIGAN**

Prizes and awards by ASPE and the Eastern Michigan Chapter. Grand Prize by McWane Plumbing Technical Services.

American Society of Plumbing Engineers

Final Race Results!

# ASPE CONVENTION PHOTOS



**ASPE EMC Chapter President Bill Grayzar conducts the race at the Convention.**



**We had a nice crowd for the race!**



# ASPE CONVENTION PHOTOS



All the Winning Cars and their trophies!



First Place Trophy presented by the ASPE EMC Chapter

## ASPE CONVENTION PHOTOS



**ASPE EMC Board Director Brianne Hall (center) was reelected to the National Board as Society VP Legislative. Congratulations Brianne!**



**ASPE EMC VP Technical Pam Hartsell attends conference.**

# ASPE CONVENTION PHOTOS



**EMC Delegates representing the chapter at the 2022 Business Meetings. Pictured (L to R) Pam Hartsell, Rachel Gendich, Josh Pedraja, Dann Holmes and Theresa Card**

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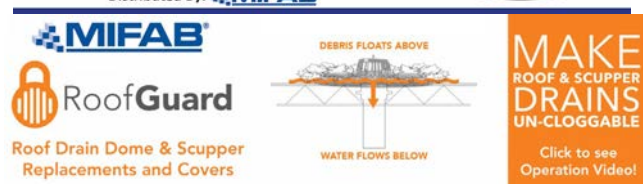
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Rod Cox  
C (616) 706-1481

E [rodcd@newcenturysales.com](mailto:rodcd@newcenturysales.com)

#### EAST MICHIGAN

Todd Hiler  
C (513) 633-2609

E [todhd@newcenturysales.com](mailto:todhd@newcenturysales.com)

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# 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
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- Expand your personal network
- Maximize your strengths

**For more information click below:**

**<https://connect.aspe.org/aspe-mentor-match/mentoring>**



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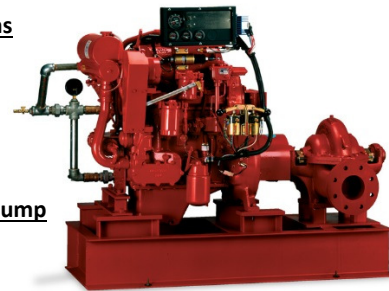
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3210S18	2018 IPC with Commentary	\$ 112.00	
3300S18	2018 IMC without Commentary	\$ 86.00	
3310S18	2018 IMC with Commentary	\$ 112.00	
3600S18	2018 IFGC without Commentary	\$ 86.00	
3610S18	2018 IFGC with Commentary	\$ 112.00	
3000S18	2018 International Building Code	\$ 130.00	
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Southfield, MI 48076  
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president.aspe.emc@gmail.com

### VP Technical

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

### VP Legislative

Ryan Lyle  
Director of Training PITC  
1911 Ring Drive  
Troy, MI 48083-4229  
248-585-1435 ext. 122  
Ryan.Lyle@ualocal98jtc.org

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Josh Pedraja  
Toledo, OH | Central USA  
4610 Entrance Drive, Suite H  
Charlotte, NC 28273  
616-307-5968  
josh.pedraja@pattonsmmedical.com

### VP Education

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

### Treasurer

Rachel Gendich  
Strategic Energy Solutions  
4000 W. Eleven Mile Rd.  
Berkley, MI 48072  
(248) 399-1900  
Fax: 399-1901  
treasurer.aspe.emc@gmail.com

### Administrative Secretary

George Johnston II  
13050 Northend Ave  
Oak Park, MI 48237  
(313) 864-2800 Fax: 864-7219  
george2@balfrey-johnston.com

### Corresponding Secretary/ VP Social Media

Josh Pedraja  
Toledo, OH | Central USA  
4610 Entrance Drive, Suite H  
Charlotte, NC 28273  
616-307-5968  
josh.pedraja@pattonsmmedical.com

### Chaper Affiliate/Liaison

Chip Bidigare  
23350 15 Mile Rd.  
Berkley Township, MI 48035  
586-755-3110 x 5938  
chip.bidigare@merloenergy.com

### AYP Liaison

Rachel Gendich  
Strategic Energy Solutions  
4000 W. Eleven Mile Rd.  
Berkley, MI 48072  
(248) 399-1900  
Fax: 399-1901

### WOA Liaison

Theresa Card, P.E., CPD,  
LEED AP BD+C  
Strategic Energy Solutions  
4000 West 11 Mile Rd  
Berkley, MI 48072  
(248) 399-1900 ext 223  
allethe@gmail.com

### Directors

Michael Melaragni, CPD  
38958 Lapham Drive | Livonia,  
MI 48154-1014  
(734) 591-9339  
mjmelaragni@yahoo.com

Theresa Card, P.E., CPD,  
LEED AP BD+C  
Strategic Energy Solutions  
4000 West 11 Mile Rd  
Berkley, MI 48072  
(248) 399-1900 ext 223

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