

FEB. MEETING AGENDA

DATE:

TUESDAY, FEBRUARY 9, 2021

WHERE:

This will be a Virtual Meeting

11:30 AM - 1:00 PM

Intro to Plumbing

REGISTRATION REQUIRED

To register for the meeting visit the following link: <https://education.aspe.org/products/eastern-michigan-chapter-meeting-introduction-to-plumbing-systems-feb-2021>

Please note: Effective November 1, 2020: the price is free for members.

SEE INSIDE COVER FOR TABLE OF CONTENTS

From Pam Hartsell, CPD, PMP President of ASPE EMC



Welcome to 2021 Eastern Michigan!

The new year got off to a great start with our January joint-presentation with ASHRAE. [Janice Means](#) of LTU and [Jim Newman](#) of Newman Consulting shared information from a new chapter in the 2021 ASHRAE Fundamentals Handbook on how the Built Environment will be impacted by Climate Change. We received excellent feedback from the audience and learned that Janice will be speaking again on the topic at the

ASHRAE Winter Conference. If you're interested in learning more, check out the course descriptions here: [program-book-12-22-20-v2-.pdf](#) (ashrae.org) Seminar 58 on page 35.

If you missed the virtual meeting, no need to worry. You can find a link in the VP Technical Report, here in the newsletter, to view the recording. You can also request a copy of the slide deck from our VP Tech, Theresa Card: vpt.aspe.emc@gmail.com

February will be another lunch presentation title "introduction to Plumbing Systems" given by our VP Legislative Bill Grayzar. Bill is a Past President of the EMC and one of our regular speakers, so expect another information packed presentation from someone who truly knows about plumbing design.

One of the great benefits of an ASPE membership is the incredible knowledge base within the ASPE community. If you are not a member yet, you can still take part in some great conversations with plumbing professionals on our discussion boards. **ASPE is currently offering a 30-day FREE trial of ASPE Connect:** [Home - American Society of Plumbing Engineers \(aspe.org\)](http://Home - American Society of Plumbing Engineers (aspe.org))

You can find all the latest info about the plumbing industry in ASPE Pipeline: <https://www.aspe.org/pipeline/>

If your company is looking for talent in the field of plumbing engineering, please let us know! The jobs board on our website is a great place to advertise that perfect opportunity! <https://www.aspe.org/eastern-michigan/index.html>

Take a moment to check us out on Social Media! Connect with us on LinkedIn so we can celebrate you! <https://www.linkedin.com/in/aspe-eastern-michigan-chapter-6333251b7/>

As always, if we can be of service in any way, please feel free to reach out. The ASPE community is here to support you!

Your Chapter President, Pam Hartsell
president.aspe.emc@gmail.com

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FEBRUARY BOARD MEETING

Virtual Online Meeting 2/2/2020 @ 4:30

FEBRUARY PROGRAM

Virtual Meeting 2/9/2021, 11:30 - 1:00 PM

CPD AND CPDT EXAM AND REGISTRATION

See pg. 7 for scheduling dates.

ASPE IS ACCEPTING APPLICATIONS FOR THE

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FEBRUARY PROGRAM

11:30 AM - 1:00 PM

TOPIC: Intro to Plumbing

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



William Grayzar

Presenter: **William A. Grayzar**, CPD, GPD - Mr. Grayzar is a past president of the Eastern Michigan Chapter of ASPE and currently serves as the chapters V.P. Legislative. He has over 35 years of experience in architecture and engineering. Employed with DiClemente Siegel Design Inc. for over 20 years, Bill continues to enhance his system engineering skills through additional vocational

field training. Bill has an excellent working knowledge of Michigan's current building codes and regulations. Bill holds an Associate's Degree of Architectural Technology from Delta College and certifications in Plumbing Design and Green Plumbing Design from ASPE. Bill is active with the National Society of ASPE serving on numerous committees. Bill also serves as the current President of the Code Study and Development Group of Southeast Michigan and is a member of National Fire Protection Association. Bill received the Michigan Chapter of ASSE award as Engineer of the Year in 2013.



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About Registration and CEUs:

If you are attending virtually: there is a link to register via the ASPE Education page. Please follow all directions. Using this platform for virtual meetings allows us to streamline the CEU process. So all attendees that plan to join virtually, need to register via the corresponding ASPE Education link. Our meetings will also be listed on the ASPE Education calendar, so you can find registration info there as well. <https://education.aspe.org/>

There is also a passcode that needs to be entered for the virtual meetings now. This passcode is in the email invite as well as listed in the webinar instructions.

If you will attend in person (when we can offer this option): 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 in person. Thus, allowing us to make sure we maintain the indoor gathering limits imposed by the Governor, and also order enough food for all. For those that attend in person, we will still 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 NOW AVAILABLE FOR ORDER!

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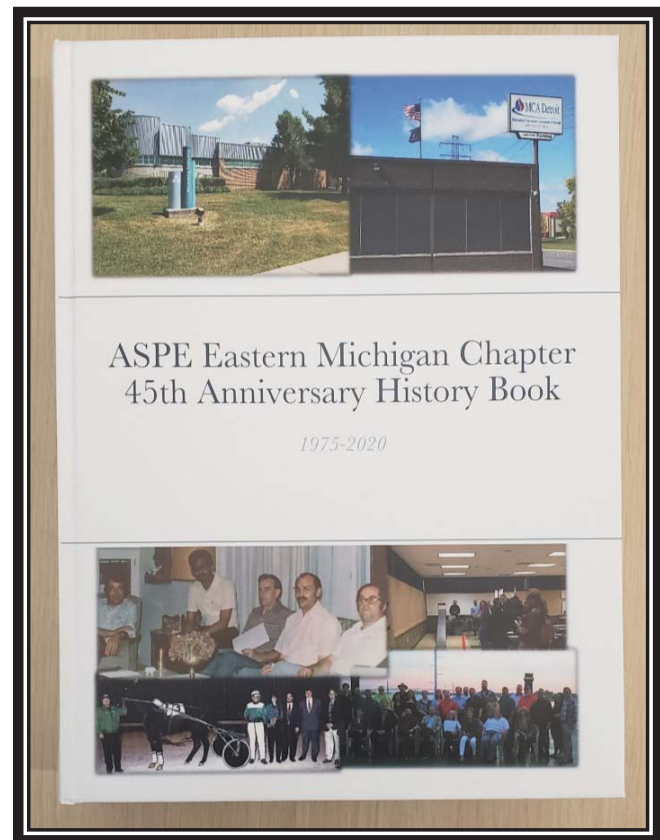
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VP Technical Report

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



Hello from your VP Tech!

What a 2021 it has been so far! Talk about being hectic right from the get-go. I hope this is a good sign that our industry will have a busy year this year and much a more prosperous one.

If you have been too preoccupied with work and home life to attend any of our meetings this program year – you can

find recordings of them below:

September 2020 Presentations Recordings: Plumbing Sizing 101 – Pipe Sizing & Hunter’s Curve and The Future of Plumbing Sizing

- Part 1 (because my cpu died in the middle of Dan Cole’s Hunter’s Curve presentation): <https://youtu.be/lthRojeGR9Y>
- Part 2 (Pam was able to start recording soon after my cpu died): <https://youtu.be/YXkz692z2kU>

October 2020 Presentations Recording: Valves 101 and IPC Code Changes 2015/2018/2021

- Full session: https://youtu.be/mX3Q_puSoMc

November 2020 Presentation Recording: Cross Connection for the Plumbing Engineer

- Full session: <https://youtu.be/GYM9cUIxrWg>

December 2020 Presentation Recording: Fire Protection 101 and 102

- Full session: <https://youtu.be/12HsTuCapY8>

January 2021 Presentation Recording: Climate Change: What is it? How will it Impact the Built Environment?

- Full session: https://youtu.be/g5XHD0_YeOg

If you would like PDF copies of the slide decks, please let me know.

February’s Meeting

February’s Meeting will be a VIRTUAL ONLY meeting, again.

Link for virtual registration for February:

<https://education.aspe.org/products/eastern-michigan-chapter-meeting-introduction-to-plumbing-systems-feb-2021>

Also please ASPE has made a change with virtual meetings hosted by National - if you are NOT a member – **ASPE is charging \$25**. To have this fee waived, please use the following code when registering: *speakerfree*.

We are trying to market this program to student members and those very new to the industry – so if you know someone who could benefit, whether they are a member or not, please encourage them to attend!

All attendees that plan to join virtually, need to register via the corresponding ASPE Education link. Our meetings will also be listed on the ASPE Education calendar, so you can find registration info there as well. <https://education.aspe.org/>; **There is also a passcode that needs to be entered for the virtual meetings now. This passcode is in the email invite as well as listed in the webinar instructions.**

Notes from January’s Meeting.

For those who were not able to join in January’s joint meeting with ASHRAE you missed a very unique presentation from two of our local, experienced ASHRAE speakers: Janice Means and Jim Newman. The subject was on climate change and what it means for us mechanical engineers. I know a lot of us are both ASPE and ASHRAE members, so it is good to know that the 2021 Fundamentals book that we should be receiving when we renew, will have new chapter on Climate Change. Below are some highlights I took from the presentation (but I encourage you all to watch the Youtube video and as me for a copy of the presentations, too):

- According to NOAA – 2020 was the earth’s 2nd hottest year, just behind 2016!
 - o <https://www.noaa.gov/news/2020-was-earth-s-2nd-hottest-year-just-behind-2016>
- Climate change is real and is happening. Regardless of who you think is responsible, observed global temperatures are much higher than what the earth would have experienced without anthropogenic influence. And it is not just a global ‘warming’ that is being tracked. We have more intense and more frequent extreme weather events. This could easily lead into a storm water discussion on what rainfall rate we should use when designing our gravity storm systems – and will the codes ever update those 100 year- 60-minute rates? ASHRAE is going to update the climate data we use for our load calculations/equipment selections.
- How will climate change affect HVAC designs? Heating and cooling degree days will change and the average temperatures across the globe change. Indoor air quality (IAQ) is at risk due to the outdoor air quality changing. Occupants and buildings/ their exposed equipment need to be protected from more extreme weather events. And what hot home for me: *the potential exists for a building’s climate zone to change over the lifetime of the building!*
- One major industry change we have seen just in the past year is the focus on indoor air quality and different techniques and systems can be used to enhance IAQ. Jim Newman put together a nice comparison list of the different technologies. Please email me for a copy!

- An often-overlooked item in our industry that needs more attention is operations and maintenance of our systems. We can do all we can to give owners and operators the best systems that provide for energy efficiency and enhanced IAQ – but if they are not properly maintained and operated, it means squat. We should be making sure our owners know the importance of proper maintenance and other services available like commissioning/ re-commissioning/retro-commissioning. BMS systems should also start to become smarter, with the Internet of Things and internal programming to the management systems to start to notice trends on its own to predict equipment failure or inefficiency.
 - o “Most buildings will lose up to 30% of their efficiency in the first 3 years of operation” – Bill Harrison, ASHRAE Presidential Member – Texas A&M study
- How many gallons of potable water do Americans use every day – just to flush toilets?! Almost 8 BILLION.

As we continue to deal with Covid and CDC/DHHS recommendations for meetings in person, please always check your email and our website for the most up to date information on our Programs this very unique 2020-2021 year: <https://www.aspe.org/eastern-michigan/program.html>

Sincerely,

Theresa Card

Vpt.aspe.emc@gmail.com

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



CPDT - 2020 EXAM DATES:

The exam is held annually in the Fall.

For more info go to:

<https://www.aspe.org/education-credentialing/cpdt/>

CPD - 2020 EXAM DATES: The 2021 CPD Exam will be

held via remote proctor from April 5 - 18, 2021. Read more about the postponed 2020 CPD Exam due to COVID-19 at:

<https://www.aspe.org/cpdexamcovid19/>

VP Membership Report

Kristin Simoneaux, P.E., CPD, LEED



Greetings everyone! I hope you are all staying healthy. Did you know you can get a **discount when you renew your membership?** Renewing for multiple years at a time can save you \$\$\$. If you renew for two years you will receive a 5% discount. If you renew for 3 years you will receive a 10% discount!

First year members: If you renew by the eighth month of your membership, you may receive reduced dues for your second year. Those eligible are members who joined after July 1, 2018. Funds are only available for the first 125 members per quarter. Renew early and save!

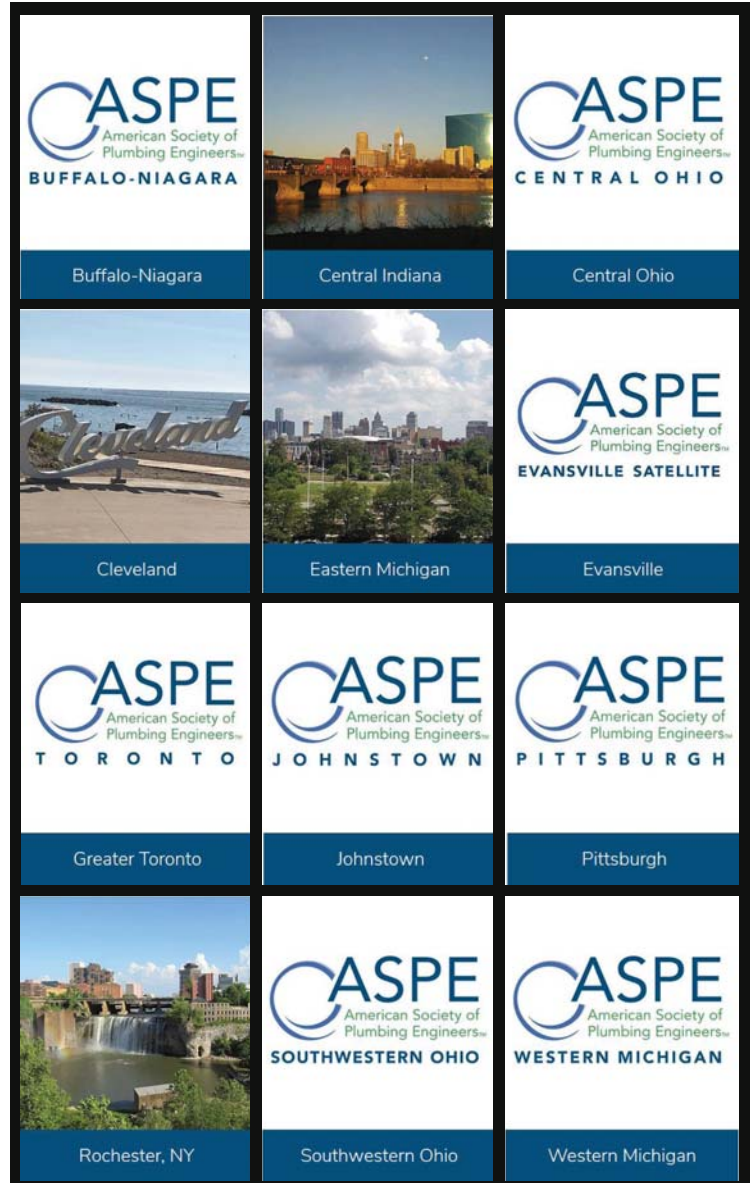
We have had a fair amount of interest in our new student member sponsorships but we still have a couple openings. Just a reminder, our chapter is offering a free 1-year student membership to eligible students (up to 10 this 2020-2021 season and they are disappearing quickly). In exchange for the free membership, we request the student give feedback on their experience (through either a short interview or writing their own newsletter article) within the first few months of their new membership. If you know of a student that has been contemplating membership, please send them my way!

Have you ever wanted to be a part of more than one ASPE chapter? We can make that happen!! Once you become a member and choose your home chapter (standard dues rate of \$190), you can join additional chapters (as many as you wish) for only \$80 per chapter. Region 2 chapters are indicated below but we have many beyond what is listed here: <https://www.aspe.org/membership-global-community/chapters/>. Members can serve on the Board of directors for any of the chapters they join. If you are interested in pursuing this option, please contact me and I can walk you through the process.

Until we meet again, stay healthy!

Kristin Simoneaux, P.E., CPD, LEED AP
Associate / Senior Mechanical Engineer
Direct: (248)336-4760
ksimoneaux@stantec.com

REGION 2 CHAPTERS:



Affiliate Liaison Report

Dann Holmes, ASPE Region 2



DOUBLE DOWN ON EDUCATION

2020 is in the history books but unfortunately, 2021 is starting out right where we left off. Not necessarily a good thing.

As I type, the nation and the world are watching the peaceful transition of power from one U.S. President to another. No matter how you voted, every election has consequences. Even if you did not vote, it still has an influence on the direction of our constitutionally limited Republic. What comes next is anyone's guess.

Education is more important today than at any time in human history. Not only do we need to understand science, technology, engineering, and math (STEM) but we must educate ourselves on history too.

Writer, philosopher George Santayana is credited with the phrase "Those who cannot remember the past are condemned to repeat it". Sir Winston Churchill modified the quote in a speech to "those who fail to learn from history are doomed to repeat it".

Churchill went on to say that "we must always look forward, but we have to understand our history in order to not repeat the mistakes of the past. I have seen too many instances where people continue to pursue wrong courses of action because they do not take the time to think critically about what has happened in the past".

Rewriting history to suit ones own best interest will not change the ultimate outcome of any future event. If you have not done your homework reviewing the facts and performed a critical analysis on the root-causes of past events, then expect similar results.

One of the most brilliant thinkers in human history, Albert Einstein is quoted as saying "Insanity: doing the same thing over-and-over again and expecting different results".

We cannot pick-and-choose which facts we want to reference when seeking an answer to a problem that confronts us to arrive at a preconceived notion of reality. Do not confuse facts with opinions.

The good, bad and ugly events of human history are there for us to use to our advantage. Putting our heads in the sand, denying events ever happened, or placing blame where it does not lie will come home to roost. It may be after we have left this great planet Earth, but like Haley's comet, we can predict a return.

There is a reason our forefathers fought for our right to free speech, to bear arms, and individual rights. They understood the failures of every government that preceded the formation of the United States of America and gave our country a chance to do better.

Little is known about Elizabeth Willing Powel, but she asked one of the most important questions in the 245-year history of our great nation. On the final days of the Continental Congress in 1787, Americans gathered on the steps of Independence Hall waiting to hear the news on the type of government our founders had created. Ms. Powel asked Dr. Benjamin Franklin; well doctor what have we got, a republic or a monarchy? Franklin replied, "a republic if you can keep it".

STEM for plumbing design, installation and operation of building water systems must include facts from past successes and failures, not opinions, for us to minimize risks to humans from waterborne pathogens. Unfortunately, we need science-based research to perform our critical analysis. These are just some of the challenges we are facing in 2021 and beyond.

I pray for continued success of our nation based on facts, not on opinions or party politics using "selective memory". If not, we are doomed to repeat past mistakes.

Dann Holmes* – ASPE Region 2 Affiliate Liaison

NSF International – r2al@aspe.org

*Views disclaimer: the views, thoughts, and/or opinions expressed in this article belong solely to the author, and not necessarily to the author's employer, any organization, committee, or other group or individual.



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JANUARY MEETING STATS

WHAT A GREAT TURNOUT!

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Paul Candela
Theresa Card
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William Grayzar
Brienne Hall
Pamela Hartsell
Dann Holmes
Thomas Huck
Jay Hults
Hank Koppelo
Gayatri Lekshminarayanan

Jeremy Martin
Michael Melaragni
Brenda Pesmark
Gerry Potapa
Kristin Simoneaux
Chris Bobrovetski
John Crawford
Nick Evanoff
John Faellaci
Aaron Frantz
Brad Herbeck
Andrew Johnson
David Karle
Ashley Lesser
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Shawn Olger
Kirk Pesta
Matthew Pettit
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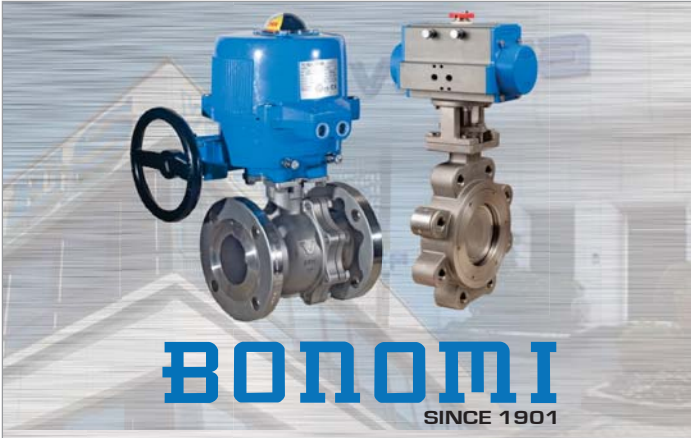
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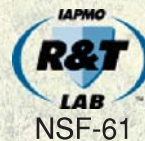


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ASPE Mentoring Program

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
- Career satisfaction
- Expand your personal network
- Maximize your strengths

aspe.org/aspe-mentoring-program





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DAVE WATSON ASSOCIATES, INC.

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Ph 517 263-8988 Fax 517 263-2328
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NEW CENTURY SALES, INC.

Manufacturers' Representatives
1715 Traditional Dr.
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Ross Beck: rossb@newcenturysales.com
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ASSE Region #4 Director - Mid West
ASSE International
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ASPE EMC WILL BE HOLDING A VIRTUAL MEETING THIS MONTH



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

VP Technical

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

VP Legislative

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

VP Membership

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

VP Education

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

Treasurer

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

Administrative Secretary

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

Corresponding Secretary

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

Chaper Affiliate/Liaison

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

AYP Liaison

George Bellman
Strategic Energy Solutions
4000 W. Eleven Mile Rd.
Berkley, MI 48072
(248) 399-1900 x222
Gbellman72@gmail.com

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

Kari Rosteck
(313) 318-6555
kari.rosteck@gmail.com

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