

JAN. MEETING AGENDA

DATE:

TUESDAY, JAN. 14, 2020

WHERE:

The Mint at Michigan First Conference Center (map on back page)

**JOINT MEETING WITH ASPE AND ASHRAE
BALANCING AND CONTROLS FOR SUSTAINABLE BUILDINGS**

4:30 PM - 5:30 PM - TECH SESSION

Pressure Control Solutions for Potable Water (ASPE focused)

Presenter: Steven Wortmann (Victaulic)

5:30 - 6:30 PM - SOCIAL HOUR

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

6:30 - 8:00 PM - DINNER & PRESENTATION

**Hydronic College Key 2:
Differential Pressure Control
(ASHRAE focused)**

Presenter: Bart Decker
(Tour and Andersson)

REGISTRATION REQUIRED

Registration link here <https://www.eventbrite.com/e/aspe-emc-january-2020-technical-program-tickets-86052690915>

SEE INSIDE COVER FOR TABLE OF CONTENTS

Cost: ASPE, ASSE, MBPA Mbrs: NC

Non-members: \$20.00 FOR CLASS

From Theresa Card, P.E., CPD, LEED AP BD+C, GGP, President of ASPE EMC



Hello from your EMC President -

I hope you all had a great holiday season and we look forward to seeing you in the New Year for the January meeting. This will be our annual joint meeting with ASHRAE. It will be a well-attended event, so be sure to RSVP in a timely fashion! And, also remember that for both organizations, registration closes the Friday before the meeting!

We continue to make some changes to the programs in 2020, so please keep an eye out to the online program. You can always find the latest program information here in the latest newsletter as well as on the website: <https://eastern-michigan.aspe.org/index-3.html>.

Important Reminders/Announcements:

- **New ASPE Website:** Have you checked out the new ASPE.org website yet? Now all your logins will be the same for aspe.org, ASPE Connect and your ASPE Education page. Since EMC is using the new process to issue CEUs for our meetings, please check your transcript at your education.aspe.org account. CEUs for Chapter meetings should be uploaded about 2 weeks after the Chapter meetings. If at any time you don't see your CEU appear, please contact a board member. I hope you enjoy this new process as it makes things on our end much more streamlined. Also please note that May 2019's meeting CEUs were sent to National in December, so those certificates should also be in your transcript by the time you see this article.
- **Know anyone who is interested in taking the CPD exam in 2020?** If so, please let them know that we have some scholarship money available to try and send a candidate to the ASPE sponsored CPD review class in [Atlanta in February](#). If you or someone you know is interested, please contact an EMC board member!
- **ASPE EMC Jobs Program!** If you are a company looking to hire a new employee or an engineering looking for the next stage in your career – simply email jobs.aspe.emc@gmail.com and we will (1) post Company's job openings in our Newsletter and (2) confidentially connect job seekers with companies looking. All information sent to jobs.aspe.emc@gmail.com is completely confidential and you will be asked for confirmation before your resume is passed on to any company. We hope this added benefit will help all involved.

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ASPE EMC BOARD MEETING
 Tuesday, January 7, 2020 4:30 - 6:00 PM in Berkley, MI

ASPE EMC / ASHRAE PROGRAM
 Tuesday, January 14, 2020 in Lathrup Village, MI - page 3.

**DETROIT SYMPHONY ORCHESTRA
 AND MET TOUR**
 A Young Engineers in ASHRAE (Detroit Chapter) and ASPE
 Young Professionals (Eastern Michigan Chapter) joint event.
 Thursday, January 30, 2020 in Detroit, MI - page 5.

**NASPE RACE EVENT/ MARCH
 PROGRAM**
 Thursday, March 12, 2020 - Troy, MI - page 12-13.

CPD AND CPDT EXAM AND REGISTRATION
 See pg. 14 for scheduling dates.

**ASPE IS ACCEPTING APPLICATIONS FOR THE
 ALFRED STEELE SCHOLARSHIP**
 Contact Stacey Kidd for more information at (847) 296-0002,
 or email skidd@aspe.org

President's Report (cont. from page 1)
 Theresa Card, P.E., CPD, LEED AP BD+C, GGP

- **ASPE EMC's 45th Anniversary!** Our local Chapter's 45th anniversary will be next year and YOU TOO CAN HELP! If you have old pictures or information from your time in the Chapter, please email me! I appreciate your help in trying to put together a great booklet for next year.

Here is wishing us all a very Happy and Prosperous 2020!

See you all soon! Stay warm out there.

Cheers,
 Theresa Card, PE, CPD, GPD
allethe@gmail.com

JANUARY TECH. SESSION

4:30-5:30 PM

TOPIC: Pressure Control Solutions for Potable Water

This session will cover application and use of pressure reducing valves and systems in building potable water applications.

Presenter: **Steven Wortmann** (Victaulic) – is a senior engineer in Applications Engineering from Victaulic. He has a Bachelor of Science degree in Mechanical Engineering in Lafayette College at Easton, PA. He's responsible for technical product support in the Plumbing, Heating and Air Conditioning (PHA), Industrial and Infrastructure markets. Steve has twenty plus years experience in various roles including technical support and product development, primarily in valve product lines and holds ten patents for inventions relating to valves and fluid control. Steve is also a member of ASHRAE and ASPE.



Steven Wortmann

JANUARY DINNER AND PRESENTATION

6:30-8:00 PM

TOPIC: Hydronic College Key 2: Differential Pressure Control

The presentation will address the challenges faced in hydronic systems and will allow the participants to develop an understanding of how pressure changes in a dynamic system can affect building control, balancing, and energy efficiency.

Presenter: **Bart Decker** (Tour and Andersson) is a Hydronic Training Manager for IMI Hydronic Engineering Inc. He has worked in the HVAC industry in various training, sales and business development roles with focus on valves, system optimization etc. In his past experience he has been instrumental in implementing various training programs on energy saving opportunities for engineers, contractors and end users. Bart is a graduate of Western Michigan University in Kalamazoo, MI with a Bachelors in Mechanical Engineering. Bart is an active member of ASHREA, JEC, IDEA, HEA, National Fluid Power Society and. TAP your steam 1-5 certified and has been a speaker at all of the above Societies.



Bart Decker

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

All Professional Engineers and Certified Plumbing Designers

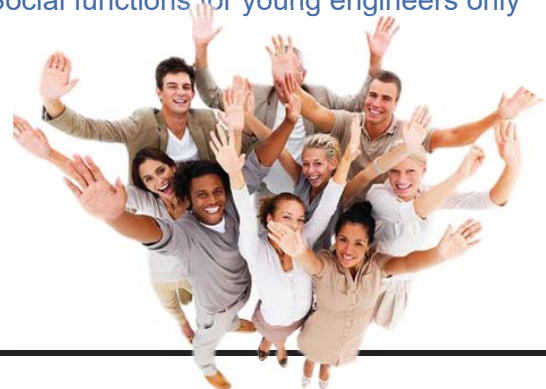
Your CEUs will now only be available online at your education. aspe.org account. They should be uploaded about 2 weeks after the Chapter meetings.

For questions or concerns please contact a board member.

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



IN THE KNOW

NEW CODE BOOK ORDER FORM

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

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.



Don't miss the

NASPE

event

March 2020

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YOUNG ENGINEERS IN ASHRAE + ASPE YOUNG PROFESSIONALS



Detroit Symphony Orchestra MEP Tour and Concert

Thursday January 30th, 2020

5:30pm **Cocktail Hour**
Paradise Lounge at Orchestra Hall

6:00pm **Tour of Orchestra Hall**
Historical Tour w/
Mechanical and Plumbing Spaces

7:30pm **DSO Concert**
Shéhérazade (Ravel)

Sponsored by:



Get the insider's view of Orchestra Hall! Join YEA and AYP for cocktails, light refreshments, and a behind-the-scenes tour of historic architecture and modern MEP systems with DSO NextGen. Then, stick around for the concert as the DSO plays Ravel (tickets courtesy of Victaulic).

Orchestra Hall, 3711 Woodward Ave, Detroit, MI 48201

Street parking available on Parsons or Selden. DSO Garage is \$10.

Space is Limited! RSVP by Tuesday January 21st, 2020

RSVP via Detroit ASHRAE EventBrite page.

Questions to George Bellman/ASPE (gbellman@sesnet.com) or Aaron Frantz/ASHRAE (afrantz@pbanet.com)



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Project Manager (PM)

Job Competencies and Description

Department: Construction Department

Reports to: Vice President

Supervisory Responsibility:

This position manages field technicians and is responsible for the performance management and accountability of these employees.

Positional Overview:

The Project Manager will plan, execute and finalize projects according to strict deadlines and within budget. This includes acquiring resources and coordinating the efforts of team members and third-party contractors in order to deliver projects according to plan. The Project Manager will also define the project's objectives and oversee quality control throughout its life cycle.

Qualifications:

Required Education and Experience:

1. Associates/Bachelor's degree in a technical discipline, or business management is preferred.
2. 1-2 years of experience in managing or leading the work of others.

Preferred Education and Experience:

1. Five years relevant work experience with an architecture, engineering or construction firm required.
2. Industry Certifications

Competencies:

1. Communication Proficiency
2. Customer/Client Focus
3. Leadership
4. Organizational Skills
5. Performance Management
6. Problem Solving/Analysis
7. Technical Capacity

Additional Eligibility Qualifications:

1. Experience working independently and, in a team-oriented collaborative environment.
2. Can conform to shifting priorities, demands and timelines through analytical and problem-solving.
3. Strong interpersonal skills and communication skills to effectively interface and gain cooperation with all levels of company structure, including outside vendors and General Contractors.
4. Proficient in Microsoft Office (Word & Excel), clearly written proposals, detailed estimating templates for bids and change orders; familiar with project scheduling software.
5. Ability to effectively prioritize and execute tasks in a high-pressure environment is crucial.

Project Manager (PM) – v. 11/1/19

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Essential Functions:

1. Direct and manage project development from start to finish.
2. Define project scope, goals and deliverables that support business goals in collaboration with senior management and stakeholders.
3. Ensure project cut sheets, drawings, RFI's and all pre-construction documents are timely submitted.
4. Effectively communicate project expectations to team members and stakeholders in a timely fashion.
5. Estimate the resources and participants needed to achieve project goals.
6. Draft and submit budget proposals and recommend subsequent budget changes where necessary.
7. Determine and assess need for additional staff and make the appropriate recruitments as necessary.
8. Delegate tasks and responsibilities to appropriate personnel.
9. Identify and resolve issues and conflicts within the project team.
10. Plan and schedule project timelines and milestones and interpret various scheduling charts and software.
11. Track project milestones and deliverables; ensure long lead equipment is released timely.
12. Prepare status/progress reports and analyze results – troubleshoot problem areas.
13. Proactively manage changes in project scope, identify potential crises and devise contingency plans.
14. Coach, mentor, motivate and supervise project team members and contractors.
15. Build, develop and grow business relationships vital to success of the project.
16. Conduct project post-mortems and create recommendations report to identify successful and unsuccessful project elements.

Work Environment:

- This position operates in both an office and field setting. This role routinely uses standard office equipment, Microsoft Software and data management software.

Position Type and Expected Hours of Work:

1. This is a full-time (40-50 hour/week) position.
2. The Project Manager is expected to work during all normal business hours, Monday - Friday, 7:00 a.m. to 5:00 p.m., with additional on-call shifts required.
3. Occasional evening and weekend work may be required as job duties demand.

Travel:

- Project Managers are expected to travel to all jobs.

Professional Development Expectations:

- Update job knowledge by participating in educational opportunities, reading professional publications, maintaining personal networks, and participating in professional organizations.

Interested??

Email John Johnson, Vice President
[@jjohnson@macombmechanical.com](mailto:jjohnson@macombmechanical.com)

Project Manager (PM) – v. 11/1/19

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VP Technical Report

Kristin Simoneaux, P.E., CPD, LEED



Hi Everyone!

We had a wonderful turn out for our December meeting on Fire Protection. Thank you to everyone who attended! Karl Wiegand gave three presentations covering fire protection basics, ceiling cloud design, and concealed space protection. Some highlights from the meeting:

Wet pipe fire suppression systems are efficient and inexpensive when compared to the cost of other means of fire suppression and offer significant reductions in life and property loss. They are excellent means for protecting buildings and lives.

Fire sprinkler systems fall under one of 3 versions of NFPA (NFPA 13D (1 and 2 story homes, mostly for life safety and not for necessarily property protection, least expensive), NFPA 13R (light residential applications, 4 stories or less, middle cost), or NFPA 13 (commercial applications, most expensive)).

Hazards are broken into different hazard classifications (light hazard, ordinary hazard, extra hazard, and storage). Small fire gets little amounts of water, large fire gets lots of water!

The amount of water delivered depends on the sprinkler. A sprinkler head has an orifice that allows for water to flow through the sprinkler.

The K-factor is the relationship between the flow and pressure of the water discharged from the sprinkler head. 1.4 is smallest K factor and 28.0 used to be the largest but now there is a 32.0 that has just hit the market. The most common k-factor is 5.6 and heads with this factor have been around since the early days of fire protection design.

The size of the connection that the sprinkler screws into are called threads.

- ½" thread: k1.4-K11.2
- 3/4" thread: k8.0 – k16.8
- 1" thread: k19.6-k28

Ever see a movie and someone holds up a lighter to a sprinkler head and all the sprinklers in the building activate? This is movie magic to add to the drama. The orifice cap on each sprinkler head prevents all heads from activating unless the individual sprinkler head bulb is broken. It is what is typically missing in movies.

There are two types of activating links for sprinkler heads. They are glass bulb or solder links. The markings are different, and temperatures are slightly different. Standard response or quick response are easy to tell with glass bulbs as quick response has a very thin glass bulb.

Spaces where temp may exceed 100 degrees may get intermediate (150° F) or high temperature (225° F). Typically, high temp is done with dry or deluge sprinkler system. Temperature ranges for sprinkler heads can go up to 625° F.

Solder links contain eutectic solder and are difficult to control exact solder melting temperature. Glass bulbs are filled with a sugar solution that expands when heated. Glass bulbs are easier to install and design to activate at specific temperature but harder to figure out why they activated. Glass bulbs are also less robust than solder link sprinklers.

From 2007 and on, the deflector for the sprinkler contains all identification information.

Pendent sprinklers are the most effective sprinkler as gravity assists with the distribution.

Upright sprinklers come up off the top of the pipe. This results in a little loss of pressure and pipe shadowing the coverage area. Sprinklers off the top of the pipe can prevent sediment build up.

Sidewall sprinklers are very effective for reducing labor for areas like corridors. They do have more limited applications. Can't be used above ordinary hazard and only allowed in specific applications for ordinary hazard.

Recessed sprinklers have the body of the sprinkler above the ceiling. These are more forgiving on installation.

Concealed sprinklers have the entire sprinkler above the ceiling. Flush sprinklers are flush with the ceiling. The deflectors need to drop below the ceiling upon activation.

There are 5 types of sprinklers: standard spray, extended coverage, residential, CMSA, and ESFR.

- Standard spray is the most common and appropriate for most occupancies.
- Extended coverage has more restrictive criteria for obstructions but have larger coverage areas than standard.
- Residential are only for residential occupancies. They are quick response and designed to spray up higher than standard commercial sprinklers. This is to help with safe egress and to handle the increased number of items (pictures, bookcases, etc.) that tend to be on walls in residential applications.
- CMSA sprinklers are special storage sprinklers that have large droplets to penetrate fires.
- ESFR sprinklers are designed to activate in 90 seconds from 50 feet up in the air. They are designed for high challenge fires and used primarily in storage applications. One of the challenges is the sprinklers are large with a 2-1/2 mm bulb so limits to k17 for glass and larger than k17 are solder links. Vertically the bulbs hold 1000 lbs. of force. Depending on the temp of the sprinkler, the air bubble inside the bulb is larger or smaller. When the bulb heats up the air bubble shrinks and the bulb breaks activating the sprinkler.

Continued on page 9

VP Technical Report (cont. from page 8)

Kristin Simoneaux, P.E., CPD, LEED

The most common reason fire sprinkler systems fail is because the control valves are closed. Control valves are two-way valves and are used to shut down portions of the system. They have indicators to determine if open or closed.

System valves differ depending on the type of system. They monitor the waterflow and hold back water.

There are four common types of sprinkler systems: wet, dry, pre-action, and deluge. Wet systems are constantly filled with water. They are the cheapest, most efficient, least maintenance, and activate upon water flow. They require a check valve or alarm check valve.

Dry systems are used in areas subject to extreme temps (too hot or too cold). System is filled with air downstream of the system valve. The system activates when the air in the system pressure drops.

Pre-action systems are 3 types:

- Non-interlocking (either sprinkler or detection system activates system, typically detector activates faster than a sprinkler)
- Single-interlock (detector activates and sends water into the system, then sprinkler head has to activate)
- Double-interlock (requires air pressure drop (sprinkler activate) and detection system activating)).

In order to be classified as a fully sprinklered building, specialty systems (inert gas, etc.) do not count so must have a secondary system (typically double interlock pre-action).

Deluge systems are used for hazards where the entire design area needs to be flooded in the event of a fire. Activation occurs when the detection system activates. Uses open sprinklers so upon activation all sprinklers spray (just like in the movies!). Typically, these systems are found in aircraft hangers or larger transformer rooms.

A huge thank you to our tabletop sponsors: Dave Watson Associates, Globe/Victaulic and Legend Valve!

Our next meeting will be a joint meeting with ASHRAE. Please note the location is at The Mint at Michigan First Conference Center. The meeting will be covering pressure control solutions for potable water and differential pressure control. These joint meetings tend to fill up quickly so register early!

Ceiling Clouds

Cloud ceilings are architectural features that are floating ceiling used for aesthetic or acoustic benefit. The ceilings are at a different height than the remainder of the ceiling. NFPA 13 defines a cloud ceiling as all on the same plane. If clouds are at different elevations than the NFPA exceptions do not apply. Cloud ceilings prior to 2016 were treated as an obstruction so it was sprinkled both above and below the cloud.

Small trashcan fire is about a 50 kw fire. Heptain and wood is used for the fire tests.

FDS modeling (Fire Dynamic Simulator) interactive heat transfer calculation program. It is an iterative heat transfer program that simultaneously calculates heat and smoke movement on many locations over an area to develop a temperature profile for an area.

Passing requirements for the system are dictated by time to extinguish the fire. Want to make sure the cloud is trapping the heat to activate the system and not the falling hot layer above the cloud. Temperature at head height cannot exceed 200° F instant temperature and cannot be over 130° F for over 2 minutes. (Wet clothing over the head will help to delay extreme heat). Temperature at the cloud cannot exceed 600° F. Temperature at the upper ceiling cannot exceed 392° F. (this is to avoid collapse of the higher ceiling creating issues for lower ceiling).

Testing was done as squares for consistency.

Concealed Space Protection

Sprinklers are required in concealed spaces per NFPA 13 section 8.15. Sprinklers are required everywhere within a building. There are 19 exceptions. Those can be lumped into 4 categories: the space is non-combustible, the space is completely filled with materials that won't burn, there is no room to put sprinklers in the space*, or the space is small and won't allow the fire to spread that far. All other concealed spaces need to have sprinklers!

*3000 square foot rule is the hydraulic design are under combustible concealed space that are not protected by sprinklers needs to be at least 3000 square feet. Protecting for a second fire. It is not an alternative to providing protection in combustible concealed spaces.

NFPA has not been able to define a combustible concealed space.

Unobstructed trusses are 4 inches or less. Obstructed trusses are members up to 12 inches (steel only).

Combustible concealed sprinklers are only required when the space is 36 inches or less in height. Space in excess of 36 inches follows standard NFPA 13 space requirements.

If you have any questions about previous or upcoming meetings and/or would like to sponsor an event, please feel free to contact me. Have a happy holiday and I hope to see you Jan 14th!

Kristin Simoneaux, P.E., CPD, LEED AP

Senior Mechanical Engineer, Stantec Architecture

ksimoneaux@stantec.com

AYP Liaison Report

George Bellman



Happy New Year everyone! I hope your holiday season was filled with warmth and contentment that lasts well into the new year. Speaking of the new year, there is a new new year event! The Wednesday, Jan. 29 meetup event has changed to **Thursday Jan. 30th Tour the Detroit Symphony Orchestra Hall and see Shéhérazade!** Exclusive sponsor – Victaulic! A limited

number of free tickets are available. I am very excited to learn about this historic 100-year-old structure and its operations.

The devil is in the details.

In my young professional experience I've come to appreciate the importance and effectiveness of a well-drawn detail. Details communicate so much information clearly and effectively that a regular floor plan might assume, or worse – miss. Having the right detail on my drawings has helped guide my design and understanding of mechanical systems in ways such as: What are all the components in this segment of the system? How much space does this really take to install? How about Code and Manufacturer considerations that the floor plans don't describe?

Because of this I've gotten into the habit of starting my design development documents with developing my detail sheet(s). This step has helped me reduce misinformation, reduce space constraint conflicts, and increase the effectiveness of system layouts early on in the design.

So with as much as this tip has helped me I hope this little snippet of insight can encourage you to take a second look at these beautiful jumble of lines and the information they convey.

George Bellman, ASPE Region 2 EMC AYP Liaison

gbellman@sesnet.com



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In celebration of
World Plumbing Day
the EMC-ASPE will be
hosting the following
event at the
March 12th, 2020 meeting:



NASPE racing is a timed race similar to a Pinewood Derby Race utilized in the Cub Scouting Program around the world.

The NASPE Race is themed to celebrate **World Plumbing Day**.

World Plumbing Day is an international event held every year on March 11 and was initiated by the World Plumbing Council to celebrate the important role plumbing plays in the health and safety of modern society.

**WORLD
PLUMBING
DAY**

EMC-ASPE is encouraging chapter members to design, build and race cars in celebration of World Plumbing Day. A trophies, awards and prizes will be provided at the event. Based on the number of entries prizes will be awarded for:

- Fastest race time 1st, 2nd and 3rd place.
- Best representation for World Plumbing Day
- Best representation of a Plumbing Product.
- Best representation of a Plumbing Tool.
- Best Green Design

EMC-ASPE Board members will serve as Official Judges for the event and William Grayzar chapter V.P. Legislative will serve as the race moderator and official.

OFFICIAL RACE AND ASPE TECHNICAL MEETING:

WHEN: Thursday, March 12th, 2020.

WHERE: Plumbing Industry Training Center located at 1911 Ring Drive in Troy, Michigan

AGENDA:

- | | |
|---------------------------------|---|
| ➤ Race Registration & Weigh-In: | 4:30 P.M. till 7:00 P.M. |
| ➤ Design Class | 4:30 P.M. till 5:30 PM |
| ➤ Dinner | 5:30 P.M. till 6:00 P.M. |
| ➤ Technical Meeting | 6:00 P.M. till 8:00 P.M. |
| ➤ NASPE Race | 8:00 PM till completion (approx. 8:20 P.M.) |



CODES AND STANDARDS for NASPE Racing are as follows:



OFFICIAL RACE CAR DESIGN BUILD KIT:

1. Official Race Car Kits must be the same as those used for the Cub Scouting program pinewood derby races. Car kits will be available at the ASPE Technical meetings, or they can be obtained by contacting an ASPE board member. **The kits are free for members who commit to be in attendance at the March 2020 technical meeting.** Official car kits may also be purchased from your local scout store.
2. If you have a child, grandchild, nephew, etc. involved in Cub Scouting, please feel free to use their car for the NASPE race, provided it meets the Specification for Construction requirements. Car must still be registered and weighed-in on the night of the event to be eligible for prizes.
3. Participants may enter more than one (1) car for the event, but only the first car kit is free. Additional kits can be purchased at a cost of \$5.00 each.



CAR SPECIFICATIONS FOR CONSTRUCTION: (Also see sheet included with your official car kit).

1. WEIGHT: 5 ounces **maximum** (but can be lighter). Min. weight of 4 ounces is suggested.
2. LENGTH: 7 inches **maximum** (but can be shorter).
3. WIDTH: 2 3/4 inches **maximum**, and 1 3/4 inches **minimum** between the front wheels and the same between the rear wheels. Otherwise, your car will not fit over the track guide rail.
4. CLEARANCE: 3/8 inches **minimum** from bottom of car to track (rail) top. Otherwise, your car will not clear the track guide rail.
5. WHEELS: You must use the wheels supplied with your official car kit (or similar BSA official racing wheels available at your local scouting shop).
6. Axles do not necessarily have to be placed in the pre-drilled slots, but the axle (nails) supplied in your car kit **MUST** be utilized.
7. **NO**, bearings, moving or loose parts are allowed **ANYWHERE** on or in the car.
8. The car shall not ride on any kind or type of spring.
9. Graphite (or dry lubricant) may be added to the wheels until the car is registered and weighed-in, but not after. **No Liquid or oil base lubricants will be allowed** as they can ruin the racing surface.

REGISTRATION AND WEIGH-IN PERMITS:

1. All cars must be registered and weighed-in to be eligible to participate in the event.
2. Your official car number will be provided during registration and weigh-in period.
3. Cars will be impounded (retained) by the race staff until completion of the event at which time they will be returned to the participants.
4. If a car is not in compliance with the codes and standards outlined above it will be disqualified and will not be eligible to receive trophies and awards. However, at the discretion of the race official the car may still be allowed to race.
5. If you are unable to be present for the registration and weigh-in period, but still wish to participate, please contact the race official to make arrangements register and weigh-in car prior to March 10th, 2015.

“Good Luck and Have FUN Racing”





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CPDT - 2020 EXAM DATES: TBD

Registration opens: TBD

Registration closes: TBD

CPD - 2020 EXAM DATES: March 30 - April 5, 2020

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EMC Chapter Members provided a great audience for a series of informative sessions on Fire Protection Sprinklers



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DECEMBER PHOTOS



Pictured L to R: VP Tech Kristin Simoneaux presented a Certificate of Appreciation to speaker Karl Wiegand, PE of Globe Sprinkler

ASPE Announces The Women of ASPE

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

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

review 

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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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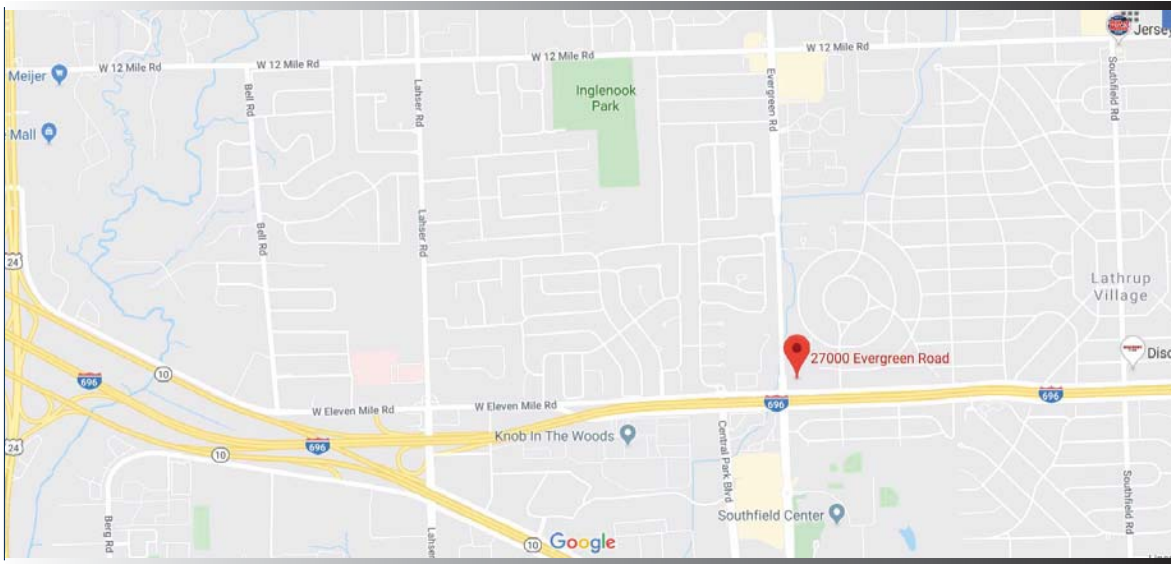
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 · \$250.00 for the 1st table per meeting/per vendor
 · \$200.00 for each additional table meeting/per vendor
 If a vendor purchases table tops for 3 meetings during the year, a 4th meeting table top will be provided for free.

PAY FAST, PAY EASY
Secure Payments Accepted By

