

# ASPE Report

aspe.org

Monthly News from the American Society of Plumbing Engineers



## From the President's Pen

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2018-2020 ASPE President

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### ASPE—What It Means to You!

The ASPE Board understands the critical nature of the industry. Nelson Mandela said, "Action without vision is only passing time; vision without action is merely day dreaming; but vision with action can change the world." Your ASPE Board and Staff are in "action" mode. Earlier articles have provided you with information on ASPE Connect, a portal for interactive communities for ASPE members, as well as information on the reorganization of ASPE committees, a pillar in our foundation. Articles will continue showing we are working at all levels to provide you educational, technical, and codes and standards information. Future articles will update you on ASPE's involvement in legislative items and give you detailed information on the development of our new website. We are developing a working group for a new healthcare certification and a Legionella/waterborne pathogen design guide. For this article, I want to stress why this action is important.

The plumbing industry is at a critical point for well-educated designers and engineers, for contractors with well-educated installers, project managers, and estimators, and for code education and standard development involvement. These are statements that I have discussed with several people as facts in our industry. ASPE is more important today than any other time. I read about "code issues," the "critically ill," and "billions of dollars for infrastructure issues," and these headlines will continue. The need for well-educated engineers/designers, installers, contractors, manufacturer representatives, and the plumbing voice is strong today and will be every day moving forward. The point is that these factors focus ASPE's goals for our members. The sparseness of resources available in the field indicates that it is time (critical) to take action and forge forward on ASPE's path.

What these "critical" statements mean to ASPE is that this is our time. ASPE, in its role of leadership in the plumbing industry, is in a prime position to move forward. To move forward, we must be on the correct path. To be on the correct path, one must understand the reason ASPE is important to this industry. ASPE's path is critical for the growth of this industry and profession. Our future path of actions for ASPE's prosperity is critical to you, your employer, city officials, contractors, manufacturers, and all other people in this profession. So, the questions are "What does ASPE mean to you?" and "What does that mean to the path?"

For designers and engineers, ASPE is the best source of plumbing system design information. This information is from all sources: other engineers, data books, educational materials/programs, articles, and manufacturers. ASPE is layered with opportunities, and extensive attention is being placed on communication and improving access to ASPE's resources for our members. If you have a code question anywhere, there is a resource to get the answer to that question. What this means to you, the ASPE member, is tools to do your job—tools and access to industry partners, your network of contacts, and a knowledge base that extends well outside your local area.

ASPE provides a strong knowledge base, which gives you unlimited career potential. We provide you with knowledge to have a rewarding career and sustain your family. What this means to ASPE's path is that ASPE is focused on providing a knowledge base for you to meet your goals with education, tools for engineers, and code resources.

What does ASPE mean to your employer? You being an engineer/designer who knows how to do your job benefits your employer, and it benefits you as well. The obvious reasons why your employer benefits are the reduction of risk, efficiency of work, and satisfied clients. Nothing loses clients quicker than costly mistakes, and nothing loses reputation quicker than poor work. ASPE provides you with a measure of qualification for your knowledge base with certifications, which are based on actual experience and knowledge.

*continued...*

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The items listed above are the primary reasons. The secondary reasons can also save a company's bottom line. Career development and support improve employees' satisfaction with their jobs. Employee satisfaction and opportunity mean less turnover and more bottom-line profit. Companies should evaluate where they are from the perspective of talent and the ability to provide quality projects.

Let's take time to do the ugly math. The Department of Labor predicted a 9 percent growth in STEM engineering services between 2016 and 2026. (This number does not include a breakout for the plumbing industry.) The average number of jobs for 2016 was 289,000, with a predicted 9 percent growth for mechanical engineering. If there is an average of 40 percent in the consulting field, then a potential ratio of mechanical engineers to plumbing engineers is 3/1; this yields an approximate need for 38,000 plumbing engineers. The median pay for a mechanical engineer is \$85,880 per year with a typical entry-level BS degree, per the occupation outlook handbook.

Simply stated, these numbers indicate a high demand for engineers and an even higher demand for plumbing engineers/designers. For owners, a continual loss of qualified staff will be harder and even more costly to replace. For these primary and secondary reasons, satisfied, talented, and educated designers and engineers are an asset and possibly soon to be a critical asset. What does this mean for ASPE? Employers needing well-trained plumbing engineers/designers make ASPE's focus on providing a knowledge base and career development resources even more critical.

What does ASPE mean to the manufacturer? An engineer is more than a specifier of your products. They are a first-line contact for your products with owners and even contractors. A well-trained designer can be your biggest asset. You can interact with engineers and provide resources to the owners, architects, and facility members with whom they communicate. The engineer can be your biggest asset in your acceptance in a market. When your product enters the market, properly selected for the job, purchased, and installed, the world is perfect. When the engineer selects your product but your product does not get installed properly or is in the wrong application, the world is imperfect. The engineer, however, is on the front line of working through the issue, and this relationship can be your biggest asset.

ASPE is a large group of engineers/designers, and for manufacturers the common platform of communication and education provides a continual stream of access to your specifiers, resources for product development through application, and resources for marketing—bottom-line efficiency for marketing and savings with direct contact to a multitude of projects and people needing your products. What does this mean for ASPE? ASPE focuses on building these relationships to support the education of our members to be better at engineering and have a good knowledge base on your product.

ASPE is focused on resources for your career, whether you are an engineer/designer, owner, code official, inspector, or manufacturer; the focus is to be the resource for the plumbing industry and the leading voice in this industry. This is the No. 1 reason plumbing

engineers need to know how to do their job from all perspectives: code knowledge, plumbing system knowledge, constructability, and products. The second reason is that owners need to reduce their risk and maintain their viability with well-educated plumbing engineers.

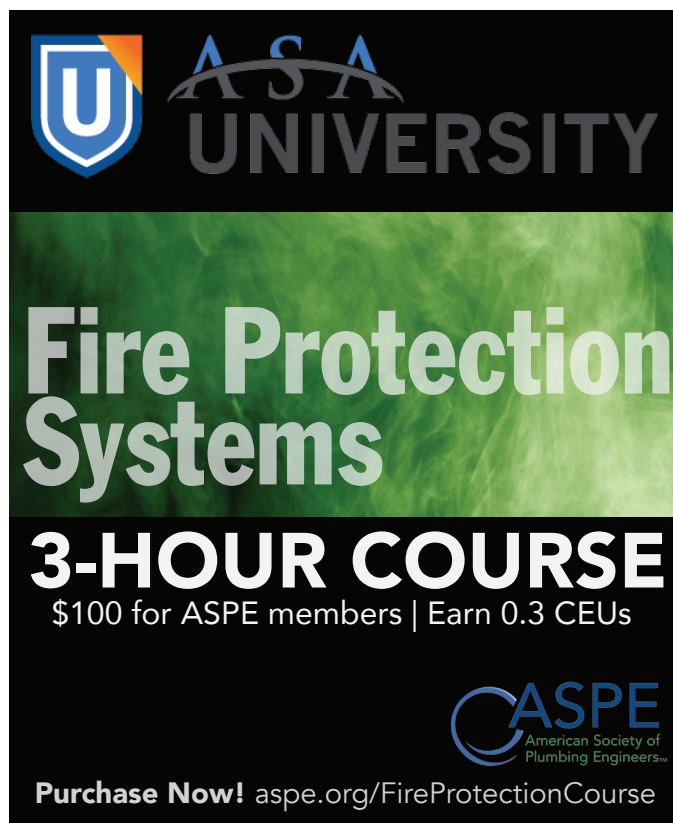
Let's stay focused on who we are. We are the voice of the plumbing engineering industry. We are One ASPE! We are dedicated to the advancement of public health and safety and the advancement of plumbing science. We give people tools to do their jobs and have great careers.

### New Book of the Month Program Is Launched

To help our members fill their digital bookcases with knowledge and design tips, ASPE will be offering one publication at a significant discount each month. For April, members can purchase the PDF version of *Plumbing Engineering & Design Handbook of Tables* for 50% off. Just add it to your cart from April 1–30, 2019 and use coupon code **AprilShowers** when you check out.

### ASPE Apologizes for Oversight in PEDH Volume 2

On the contributors page of the 2018 edition of *Plumbing Engineering Design Handbook, Volume 2*, we neglected to include Mark Penoyar of the Central Florida Chapter as a contributor to Chapter 6: Domestic Water Heating Systems. You can find the corrected page at [bit.ly/2VHeshD](http://bit.ly/2VHeshD).



The advertisement features a black header with the ASA University logo (a shield with a 'U' and 'ASA' text) and the word 'UNIVERSITY' in large, bold, white letters. Below this is a green section with the text 'Fire Protection Systems' in large, bold, white letters. Underneath is a black section with '3-HOUR COURSE' in large, bold, white letters, followed by '\$100 for ASPE members | Earn 0.3 CEUs' in smaller white text. At the bottom right is the ASPE logo (a circular emblem with 'ASPE' text) and the text 'American Society of Plumbing Engineers™'. At the bottom left, in white text, is 'Purchase Now! aspe.org/FireProtectionCourse'.



### From the Executive's Desk

William "Billy" Smith, FASPE

ASPE Executive Director/CEO

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### Can You Hear Me Now?

Each of you, as you are reading this month's column, should be able to place the headline above into proper perspective, as we've all seen the cell phone commercial with the gentlemen covering the globe in an effort to ensure that the said cell service provider is getting proper reception by asking "Can you hear me now?"

With that in mind, ASPE's Board of Directors and Staff are asking the same question. We are working collaboratively to ensure that we are providing and properly communicating a unified message of who ASPE is, who you are, how very important each of you, our current members, are to the overall success of the Society, and the importance of recruiting and retaining the nonmembers who will soon become new members to assist the continuance of the quickly increasing uptick in ASPE's membership growth. Again, "Can you hear me now?" I hope so! If not, we can definitely turn up the volume. Don't believe me? Just ask my wife, who hates it when I have control of the TV or stereo remote. It's going to get loud!

Regardless of the volume level, by the time you've had an opportunity to read this month's column, I will have returned from one of the industry's best biennial events, ISH 2019, which allows for face-to-face communication with other like-minded associations, within both the domestic and international markets, that can be so important for not just ASPE, but those associations as well. Working together with the likes of CIPHE (the Chartered Institute of Plumbing and Heating Engineering) and RSPH (the Royal Society for Public Health), our efforts are to continue seeking joint opportunities to bring additional benefits to all of our associations' members by using joint resources that make sense and can help us with our main goal to protect the health and safety of the public on a global basis, while also growing our joint memberships if possible. Doing so together could allow our members to gain access to additional educational documents, online courses, training tools, etc. If I have something and you don't know about it, how important is what I have if it's not being shared with those in need who could benefit and grow from the knowledge? Hoarding or not sharing information is one of the most unfortunate mindsets in the marketplace. Let's instead work together in sharing the wealth of knowledge we have.

Working closely together in a focused and collaborative effort will help ensure this important knowledge sharing, both domestically

and internationally. Plumbing engineering is so important in all areas of the world. How important, you might ask? Your specific plumbing engineering and design capabilities and responsibilities are critically important as we continue to hear more and more about waterborne diseases and pathogen growth. To use my analogy above, let's turn up the volume ridiculously loud relative to subjects such as Legionella. Our association and your profession should be proud to be right at the forefront, taking the lead in planning and executing proper design methods to provide the utmost protection within plumbing systems.

Speaking of bringing more educational and career growth opportunities to our members, during the first quarter of 2019, we've already seen the successful completion of very well-received webinars and workshops. In January, two webinars were provided: Drainage Selection for Hygienic Applications and NFPA 99-2018 Revisited, and in March, a webinar was provided on the Review of Sprinkler System Shop Drawings. As for workshops, in February three workshops were provided, and they were Basic Plumbing Design II, Intermediate Plumbing Design, and Medical Gas Design. Continuing with our educational offerings, in February and March CPD Review Classes were held in Irvine, California and Pittsburgh. Most importantly, relative to our webinar and workshop offerings, I would be remiss if I did not thank the presenters and instructors, as well as the very important engineering firms that provided their respective facilities and time to host these member benefit events.

In closing, I will once again refer to the column title "Can You Hear Me Now?" as it relates to being more proficient in our communication efforts in giving everyone a great venue for just that: communication. This brings me to one of the best tool utilization efforts ASPE has ever brought to our membership, and that is ASPE Connect. With ASPE Connect, each of you will have the ability to communicate with all other members to provide input and gain important direction and guidance pertaining to issues or problems you may be having with a design or application. A host of communities will be available for you to join and participate in to further your educational and career growth.

Again, can you hear me now? I hope so! If not, let me know as I still have that hated remote. The volume can be increased.

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### Three Companies Renew as ASPE Affiliate Sponsors

Kohler Co. (kohler.com) is one of America's oldest and largest privately held companies and is a global leader in the manufacture of kitchen and bath products, engines and power systems, and premier furniture, cabinetry, and tile. Rheem (rheem.com) has been a pioneer in developing some of the most innovative advancements in heating, cooling, and water heating for nearly 100 years. IAPMO is a complete service organization, providing code development assistance, industry-leading education, plumbing and mechanical product testing and certification, building product evaluation, and a manufacturer-preferred quality assurance program.

To learn how to join our Affiliate Sponsors, visit [aspe.org/affiliates](http://aspe.org/affiliates).

### ASPE Members Are Recognized at ASSE Banquet

We are pleased to announce that the following members received awards at the ASSE Michigan Chapter Awards Banquet that was held on January 26:

- » John E. Matthews Award and Engineer of the Year: Pamela Hartsell, CPD
- » L. Glen Shields Award: Esteban Cabello, PE, FASPE

You can find pictures of the event in the Eastern Michigan Chapter's March 2019 newsletter at [eastern-michigan.aspe.org](http://eastern-michigan.aspe.org).

Congratulations Pamela and Esteban!

### New ASPE Members

#### Atlanta Chapter

Mark Thomas Clay  
Troy William-Pattison Slider

#### Baltimore Chapter

Kyle Carson  
Naveen Kumar Shivanna, LEED GA

#### Boston Chapter

Stephen Joseph Fulgoni  
Robert Healy, CPDT

#### British Columbia Chapter

Thomas James Barber

#### Buffalo-Niagara Chapter

Jesse Lee Jarrett

#### Central Florida Chapter

Sean David Wise

#### Central Ohio Chapter

Spencer A. Alestock  
Bradley M. Jackson  
Sean Kent Merrill  
Robert Daniel Money

#### Central Texas Chapter

Jordan Matthew Nixon

#### Charlotte Chapter

Silvano A. Ferrazzo  
Mike Long

#### Chicago Chapter

Conrad Lemieux Jahrling  
Yanyan Jiang  
Samuel Lee Marchesi  
Michael E. Stach

#### Cleveland Chapter

Mikhail Valeryevich Alekseyev, PE

#### Connecticut Chapter

Rhea Hager Thornton Lamoureux

#### Dallas/Ft. Worth Chapter

Richard Howard DeForest  
Cody Garret Lawler  
Harris Ashcroft Pfeil, PE, LEED AP  
Anthony Cecil Sanchez  
Melanie Willhite

#### Denver Chapter

David Hartman  
Patrick Larson

#### Eastern Michigan Chapter

Michael Elias Pietrzak

#### Houston Chapter

Brittney Leigh Heath  
Caleb Andrew Kreger  
Jeffrey Michael Lopez  
John Michael Maupin, PE

#### Johnstown Chapter

Timothy Neil Wagner

#### Kansas City Chapter

Darren Kent Baker  
Gregory Harris, PE  
Dylan Robert Shmalberg, PE

#### Long Island Chapter

Robert Anthony Marsiglia

#### Los Angeles Chapter

Mamdouh M. Barsoum  
Richard A. Cruz  
Kathy Deng  
Alex Lubomirsky  
Ringo Mariscal  
Armando Nunez  
Danielle Protas

#### Member at Large

Gary Michael Thompson

#### Minnesota Chapter

Tyler A. Kleinsasser  
Robert Eugene Warnke

#### Montreal Chapter

Philippe Leveille

#### Nashville Chapter

Stephen Cherry

#### New Jersey Chapter

Kevin Griesse Jr.  
Matthew Parke  
Kimberly Scochin

#### New York City Chapter

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Joseph Ignazio Cosentino, PE  
Harrison C. Kwok, CEM, CBCP, LEED AP  
BD+C  
Danny Lau  
Roman M. Limonta  
Leo R. Pollack

#### North Florida Chapter

Brandon Athanas Russakis

#### Northern California Chapter

Riley James Breslin  
Christopher Scott Needham  
Kevin Yuen

#### Orange County Chapter

Ismail Beltran  
Jacob Oq Kasten  
Steven Komenda

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Mohammed Shebl Abbas

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Steven Mutton

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Weston Michael Banks  
Matt Dodgson

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Khoa Phan

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Aaron Lucas Novotny

#### San Francisco Chapter

Sambhav Gada  
Rigoberto Dizon Manalac

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Robert Lee  
John Edmund Snell

#### Southwestern Ohio Chapter

McKenzie Tisdale  
Jeffery E. Turner

#### Washington, D.C. Chapter

Christopher Ryan Able

#### West Coast Florida Chapter

Nancy Abraham  
Hernan Alberto Garcia

#### Western Michigan Chapter

Jordan W. Boothby  
Brent Homan

#### Wisconsin Chapter

Patrick Shawn O'Neill  
Allen Stowers

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