



SOUTH FLORIDA NEWS

Chapter Announcements

- ◆ Our next meeting will be held on Thursday, June 9th, 2022 from 5:30 PM to 9:00 PM. This month will be the 2nd Annual Table Top and Bowling Tournament. This will be held at Bowlero-Dania Beach, 1841 Way Pointe Place, Dania Beach, FL. Please [register](#) here for more information.
- ◆ ASPE has opened registration for the 2022 Convention and Expo. Attend the 2022 ASPE Convention & Expo to discover game-changing innovations, profitable solutions and new ideas to maintain your competitive edge. Join thousands of your industry peers in Indianapolis, Indiana at the 2022 ASPE Convention & Expo. Please [register](#) here for more information.
- ◆ We are asking all members to save these dates:
 - Thursday, June 9th, 2022—Tabletop Expo & Bowling Tournament
 - Friday, November 4th, 2022—2nd Annual Clay Shooting Tournament

ASPE Pipeline

Keep up to date with everything ASPE on the [ASPE Pipeline](#).

About ASPE

The American Society of Plumbing Engineers (ASPE) is the international organization for professionals skilled in the design, specification and inspection of plumbing systems. ASPE is dedicated to the advancement of the science of plumbing engineering, to the professional growth and advancement of its members and the health, welfare and safety of the public.

The Society disseminates technical data and information, sponsors activities that facilitate interaction with fellow professionals, and, through research and education, expands the base of knowledge of the plumbing engineering industry. ASPE members are leaders in innovative plumbing design, effective materials and energy use, and the application of advanced techniques throughout the world.

The SOUTH FLORIDA NEWS is a publication of the South Florida Chapter of the American Society of Plumbing Engineers. The Society or Chapter assumes no responsibility for any advertisements, statements by any officer or member which may be construed as an approval or disapproval, or official position of the Society, of the material contained herein. Local Chapters are not authorized to speak for the Society.



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ASPE Connect

ASPE Connect: One of the Best Things ASPE Has Done in Years

- Since the launch of ASPE Connect—the hottest online community for plumbing industry professionals—thousands of plumbing engineers and designers from around the world have benefited from its shared knowledge and expertise on a daily basis. In our Open Forum, you can get quick answers and advice from numerous experts, often within minutes. ASPE Connect is free for ASPE members and we also offer a 30-day trial for nonmembers, so what





Coming to the
2022 ASPE Convention & Expo
This September

Get Geared Up for ASPE Racing at Indy

We are pleased to announce that the Eastern Michigan Chapter will be hosting ASPE Racing at Indy during the 2022 ASPE Convention & Expo, and all Chapters are invited to participate.

WHAT IS ASPE RACING AT INDY?

ASPE Racing at Indy is similar to a pinewood derby event of Scouts BSA. It will be a timed race in which each car will race four times once in each lane of the four-lane track, thus eliminating any lane advantage. The four race times will be totaled and averaged through a computerized timing system to provide an official race time for each car that will be used in determining awards and prizes. [Eastern Michigan Chapter](#) members will serve as the pit crew for the event, and the Chapter's VPL, William Grayzar, CPD, GPD, will serve as the Master of Ceremonies.

OFFICIAL RACE CAR KIT AND SPECIFICATIONS

A car kit will be supplied to each Chapter free of charge by the Eastern Michigan Chapter. The car kits will be the same as those used in the Scouts BSA program.

Racecars are to be constructed within the following parameters. (Also see the instructions included with your official car kit.)

CAR #: You will be provided with an official car number that must appear in some fashion on the top and/or side(s) of your race car.

WEIGHT: 5 ounces maximum (but can be lighter)—minimum weight of 4 ounces is suggested.

LENGTH: 7 inches maximum (but can be shorter).

WIDTH: 2¾ inches maximum, and 1¼ inches minimum between the front wheels and the same between the rear wheels; otherwise, your car will not fit over the track guide rail.

CLEARANCE: 3/8 inches minimum from the bottom of the car to the track (rail) top; otherwise, your car will not clear the track guide rail.

WHEELS: You must use the wheels supplied with your official car kit (or similar BSA official racing wheels available at your local scouting shop).

AXLES: Axles do not necessarily have to be placed in the pre-drilled slots, but the axles (nails) supplied in your car kit **MUST** be utilized.

- >> No bearings, moving, or loose parts are allowed ANYWHERE on or in the car.
- >> The car shall not ride on any kind or type of spring.
- >> 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-based lubricants will be allowed as they can ruin the racing surface.
- >> Magnets are not allowed anywhere on the car as they may interfere with the timing system.

REGISTRATION AND WEIGH IN

1. All cars must be registered and weighed in to be eligible to participate in the event. Members of the Eastern Michigan Chapter will weigh in and collect and impound the racecars during check-in and registration at the ASPE Convention & Expo.
2. If a car is not in compliance with the specifications outlined above, it will be disqualified and will not be eligible to receive awards and prizes. However, at the discretion of the race official, the car may still be allowed to race.
3. If you can't be present for the registration and weigh in period at the Convention & Expo but still wish to participate, please contact the Eastern Michigan Chapter to make arrangements to register and weigh in your car.
4. Cars will be collected and impounded (retained) by the race staff until completion of the event, at which time they will be returned to the participants.

QUESTIONS?

Contact Bill Grayzar at bill@dsdonline.com. The Eastern Michigan Chapter looks forward to racing with you at Indy in September!



Indianapolis // September 16-21



Presidents Report



And the Answer is...

During the past year, I have had contact with many of our members and it seems that they always have questions about ASPE and/or the benefits of their membership. So I would like to pass along some answers to the questions that were posed to me. I hope that you find them helpful and they give you a better insight to what ASPE is all about.

How often does our chapter hold elections for board positions?

The officers, as shown in Article 4, Schedule 1 of the ASPE Bylaws, shall be elected for a term of one (1) or two (2) years as voted by the chapter membership at the chapter's Election of Officers meeting held in May.

Who can run for a chapter board position?

To run for a chapter board position, you must be a member in good standing of that chapter.

Who are the chapter delegates at the convention?

Chapter delegates are normally board members of that chapter. The number of delegates is regulated by the chapter membership in accordance with ASPE By-laws.

Are board officers compensated for their position?

The elected board officers and appointees are all volunteers and there is no compensation for the work they perform.

What benefits will I get from being an ASPE member?

The ability to network with engineers, designers, inspectors and contractors is a primary benefit. Add to that the ability to obtain product information at our meetings and attend the convention and symposium makes your membership very valuable.

I look forward to seeing many of you at the June Table Top & Bowling Tournament on June 9th. It should be a great event...so come out and support the chapter, and enjoy a night out with our members.



South Florida Chapter Board

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AYP Liaison:

OPEN



Suddenly on May 17th, we lost a man who was a friend to everyone in the plumbing community, Bill Freeman of Spirit Group. For those of us who were fortunate to know Bill, he was always a person who was there to help you not only in business, but in life as well.

The ASPE South Florida Chapter would like to extend our heartfelt sympathy to the Freeman family and the employee's of Spirit Group.

OSCAR WILLIAM FREEMAN III

DECEMBER 10, 1951 – MAY 17, 2022

Oscar William "Bill" Freeman, III was born on December 10th, 1951 in Atlanta, GA to Dr. Oscar and Laura Jean Freeman. The family moved to Orlando, FL when he was 3 years old where he was raised alongside his younger brothers, Ken and Barry. He attended Edgewater High School and graduated with the class of '69 and went on to graduate Cum Laude from Furman University in 1973. After graduation, he returned to Orlando to begin his career. In 1976, he met Sheree Walburn while working for Knoble Homes, when she called on him in her sales role.

Shortly after, he took his work to Cat Cay, Bahamas where he was contracted to build homes. Bill and Sheree maintained their relationship by ship to shore radio and occasional weekend visits. In 1979, his greatest achievement came after returning from the Bahamas when he married Sheree and they began their lives together in Orlando. Bill had a strong faith and was a member of First Presbyterian Church of Orlando for over 50 years. He and Sheree were married in the Reformation Chapel. He served as an Elder and taught youth Sunday School.

Growing up "Billy" enjoyed boating, fishing, diving, trips to the Bahamas, hunting, playing golf and anything outdoors. All of which was most enjoyed with his brothers, Ken, and Barry. The joy he felt in passing these interests to his sons was only surpassed by the joy he felt in seeing his sons pass them on to their children.

His lifelong career, as a manufacturers rep in the plumbing industry, began at Carr Company in 1979, where he worked for 14 years. In 1994, with the support of Charlotte Pipe & Foundry, Bill, Sheree, and 6 other key employees founded Spirit Group, Inc. He built Spirit Group into a nationally recognized brand. Through his leadership and guidance, Spirit Group would go on to win many awards, none he was more honored by than Supply House Times "Rep of the Year." He's referred to as a foundational pillar of the industry due to his work in many advisory roles. He served on the AIM/R Board for many years and was President from 2006-2007. In 2012, Bill began the transition of Spirit Group, Inc. to the next generation of family and employees by taking on the role of CEO. Most recently in an advisory role he enjoyed being part of the business, while having more time with Sheree and his 7 grandkids.

Bill was a true patriot and loved his Country. He believed in hard work, continuous improvement, and Capitalism. Bill had a passion for live music and entertaining his friends. He took pride in planning events and trips that would gift those involved lasting memories.

Everything he did was for his sons Benn, Chase, and Mike. Their passions became his passions, their friends became his friends. His friendships were multi-generational, age didn't matter in his eyes. He discovered

a love for Auburn Football while Benn and Chase attended the school. However, in right field of Doug Kingsmore Stadium at Clemson University, Bill found one of his happiest places on earth. Recognized as the Cheapseats, he was able to share his love of watching Mike play baseball while surrounded by people he loved and who loved him.

Always a child at heart, he cherished the role as a grandfather, and loved the opportunity to be called "PawPaw," "Bill," and "Booba." He saved his greatest love and admiration for his wife Sheree. They did life side by side as best friends and *true companions*. He was a legend, a selfless leader, a man of integrity, and he will always be the leader of the band. Whatever you do... Do it with Bill's Spirit!

Bill is survived by his wife Sheree Freeman, his sons Benn (Lindsey), Chase (Catharine), and Mike (Caroline). His grandchildren, Walker (9), Piper (9), Weslyn (7), Ellie (7), Will (3), Savvy (3), Barrett (1). He is also survived by his brothers Ken (Celeste) and Barry Freeman (Stacy) and his nieces and nephews.

Please Support Our Sponsors



BOWLING NIGHT

Thursday, June 9, 2022

TOURNAMENT & TRADE SHOW

Check-In begins @ 5:30 PM • Tournament Starts @ 6:00 PM





ASPE South Florida Chapter Bowling Sponsors





Technical News

Elvira Pita-Mejia — Chapter VP-Technical

“Education is not the learning of facts, but the training of the mind to think” — Albert Einstein

As we prepare for the last meeting of our 2021-22 ASPE South Florida Chapter year, we want to thank all the technical speakers that presented in and sponsored our monthly technical meetings. Your support has enhanced the growth of our Chapter.

We also want to thank all those that attended our May 2022 technical meeting. We are happy to report it was a full house where we had the opportunity to learn about the best practices, industry standards and code requirements relating to gas safety and gas control in commercial boiler and mechanical rooms. Did you know that boiler rooms and mechanical rooms are the areas in your buildings where you are going to have the most gas coming through? As a result, providing combustible gas detectors in these spaces is proving to be the solution for many engineers to protect these spaces and the building overall.

June 9, 2022 – ASPE TABLETOP AND BOWLING TOURNAMENT.

Who is ready to show off their bowling skills? The ASPE South Florida Chapter will be holding its 2nd annual tabletop and bowling tournament. We would love to have you all join us. We have available spots for anyone interested. For more information, [CLICK HERE](#).

August 18-21, 2022 – ASPE MedGas Workshop

The first of ASPE's highly anticipated MedGas Workshops will be held August 18–21, 2022, at ASPE's headquarters in Rosemont, IL. Registration will open in early June. Taught by medical gas expert Mark Allen, this 32-hour workshop will be based on the parameters outlined in ASSE 6060: Medical Gas Systems Designer. Those who complete the workshop will receive a certificate of training and will have fulfilled the training requirement to take the ASSE 6060 certification exam. For more information, please click [HERE](#):

2022 ASPE Convention & Expo – REGISTRATION IS OPEN!

The 2022 ASPE Convention & Expo will be held September 16–21 at the Indiana Convention Center in Indianapolis. To find out more and register please [CLICK HERE](#)

“Stay in the know”

Don't forget to follow us on [“LinkedIn”](#)! We are regularly providing information on our chapter and upcoming events.

Stay well,
Elvira Pita-Mejia



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Membership Corner

David Erickson — Chapter VP-Membership



Greetings Members,

I would like to let you know that the ASPE Bowling Event on Thursday June 9th, is right around the corner and if you have not signed up you should get that done sooner than later because we are filling up fast. If you need additional information you can go to our website: <https://aspemiami.com/meetinginfo.php>

We continue to add new members to our South Florida chapter, this month I was notified from ASPE National that we have 3 new members which brings our total to 80. We are the 4th largest chapter in our region and have plenty of room to grow.

Please join me in welcoming our newest member.

Mr. Rodolfo Area

Mr. Albert Korelishn

Paul Richerson

As we continue to grow, we will continue to need additional support for our chapter, we are looking for a young professional that is under the age of 30 to fill our local AYP position and a person to help with our Newsletter, if you are interested or know of someone that is interested, please let me or one of our current board members know. If you have someone that is considering joining our chapter, send them my way and I will personally help them out with the process.

Please keep talking about ASPE membership to your associates at work, with your help we will continue to grow and become a vital chapter for our region.

Thank you for reading and have a great day,

David Erickson

VP Membership ASPE SFL Chapter



2020-2021 Chapter Meeting Dates

DATE	TOPIC	LOCATION
Thursday, September 9, 2021	Understanding Energy Compliance Reports Presenter: Timothy G. de Carion. Chief Energy Code Compliance Officer for the Broward Co. Board of Rules and Appeals	Virtual
Thursday, October 14, 2021	History and Overview of Cast Iron Presenter: BJ Schrader – McWayne Plumbing Group	Virtual
Thursday, November 11, 2021	Smart Water Management for Improving Safety and Efficiency in Premise Plumbing Presenter: Edwin Gonzalez - George Fischer	TBD
Thursday, December 9, 2021	Holiday Happy Hour	Tommy Bahama 150 N. Pointe Dr. Dania Beach, FL 33004
Thursday, January 13, 2022	Drinking Fountains & Bottle Fillers In A Post Covid-19 World Presenter: Brian O’Keefe—Oasis	Plumbing Contractors Association 7204 SW 48th Street Miami, FL 33155
Thursday, February 10, 2022	Pre-manufactured Commercial Plumbing Systems Presenter: Daniel Rourke - Right Way Plumbing	Right Way Plumbing - Training Facility 1329 Shotgun Rd. Sunrise, FL 33326
Thursday, March 10, 2022	Pressure-Reducing Valves/Systems for Domestic Water Presenter: David Dears - Victaulic	Fairfield Inn & Suites - Delray Beach I-95 910 West Atlantic Ave. Delray Beach, FL
Thursday, April 14, 2022	Commercial Water Reclamation Systems & Applications Presenter: Andrew Paulsen—Water Control Corp.	City of Ft. Lauderdale – Building Department 700 NW 19 th Ave. Ft. Lauderdale, FL
Thursday, May 12, 2022	Boiler Safety Presenter: Christopher May - National Sales Director American Gas Safety LLC	Harry Warren -Pompano Office 2215 NW 30th Place, Pompano Beach, FL
Thursday, June 9, 2022	2nd Annual Tabletop Show and Bowling Tournament	Bowlero Dania Beach 1841 Way Point Pl. Dania Beach, FL



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McWanePlumbingTechServices.com/contact

Legislative News

Enrique (Henry) Salvador—VP-Legislative

Greetings and welcome to the June Newsletter. Looking forward to our 2nd annual Tabletop and Bowling Tournament on June 9th from 6:00 PM to 9:00 PM. The event will be held at Bowlero in Dania Beach. This will be an exciting time for everyone in attendance.

I am often asked what my involvement is around the state as well as locally. Currently, I am involved with:

- The South Florida Code and Standards Chiefs Committee. The Plumbing and Mechanical Chiefs of Dade and Broward County meet every month and interpret the codes, ICC, Florida, County and Local codes. We also look at new products and give our recommendations to The Florida Construction commission
- Member of State and South Florida Building Official Association. We go over and review new House Senate Bills that have to do with changes to construction, inspections, and local Jurisdictions requirements.
- Past President of the Florida Association of Plumbing, Gas and Mechanical Association (FAPGMI). I sit on the Board of Directors and work with approval and presenting CEU hours that are approved by the inspectors board of the Department of Business and Professional Regulation of Florida. I am also a member of the local Broward County Chapter

Sincerely,
Henry Salvador





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Affiliate Report

Scott Smith—Affiliate Liaison

When you think of the ASPE South Florida Chapter and their sponsors:

- Who do you think about?
- Who comes to mind?
- Would you believe that not everyone is a plumbing engineer or designer?

Yes...ASPE is here to help the engineers and designers but we offer so much more. The ASPE South Florida Chapter supports plumbing engineers and designers in many ways, but the addition of our sponsors also assists in the promotion as well:

- Are you exploring the many job opportunities available and want a forum to meet the right people to get you access?
- Do you want to broaden your knowledge base by taking on a different role, meet people in the wholesale industry or the different manufacturer representatives or inspectors?
- Would you like meet contractors in the area.

The ASPE South Florida Chapter is very active with all these disciplines. Our newsletter goes out every month to over 200 members and non-members. No matter who you want to get access to, the ASPE South Florida Chapter is here to help.

Mark your calendar for the ASPE South Florida Bowling Tournament on June 9th, 2022 at Bowlero, 841 Way Pointe Place, Dania Beach. Check-in starts at 5:30pm.





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Jacksonville, FL, 32204

Phone: (904) 475-1477

What Is ASPE Connect?

ASPE's newest member benefit! ASPE Connect is an online community where ASPE members can find answers to design questions, build relationships, share successes, brainstorm ideas, and get career advice. You can access ASPE Connect 24/7 from any computer or mobile device.

ASPE CONNECT BY THE NUMBERS



WAYS TO LEVERAGE ASPE CONNECT

1. Get answers to your most pressing questions
2. Build relationships with fellow professionals
3. Offer your advice and knowledge to other members

MOST POPULAR DISCUSSIONS

ASPE members are actively talking about:

- High-rise domestic hot water design
- Grease interceptor sizing
- Revit use for engineers
- Flow in sewer lines
- Medical gas sizing
- CPVC piping



HOW TO GET STARTED

- STEP 1 ➤ Go to connect.aspe.org
- STEP 2 ➤ Click the blue "Sign In" button
- STEP 3 ➤ Select "Confirm your email" and enter your email
- STEP 4 ➤ After receiving the email, set your password and log in to the community
- STEP 5 ➤ Fill out your profile
- STEP 6 ➤ Go to the Open Forum and start connecting!

Women of ASPE

Elvira Pita-Mejia — WOA Liaison



Many exciting things happening with the Women of ASPE (WOA) this year!

Ever wonder why join WOA? Well here are a few things that the WOA of ASPE are involved in that we hope will convince you to join our group.

June 30 ,2022 – WOA 2022 Convention & Expo Scholarship

WOA has created a scholarship to help one deserving member attend ASPE's 2022 Convention & Expo in Indianapolis, to promote the importance of fostering the growth and professional development of women in the field of engineering. The scholarship will cover expenses up to \$3000, which includes a one-year membership renewal, full registration to the Convention & Expo, any special events, round-trip airfare, hotel accommodations, airport transportation and meals. If you are interested in learning more about this great opportunity, click [HERE](#).

June 9 ,2022 – ASPE TABLETOP AND BOWLING TOURNAMENT

The WOA South Florida Chapter is looking to put together a women's team to join us at the upcoming 2022 Tabletop and Bowling Tournament on Thursday, June 9,2022. We would love to have all eligible women in the industry join us. For more information contact me at woaliaison@aspemiamichapter.com

And as always, we are looking for women in the industry to join our group. This organization is open to women who have an active membership with the American Society of Plumbing Engineers. For more information you can contact me or check out our [WEBSITE](#).

Sincerely,
Elvira Pita-Mejia



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Import, Std & XH), Cast Iron Fittings
(Class 125 and Class 250), Steel Nipples
(Galv and Black), Tee/tee



Education Update

Kyle Stottlemeyer—Education Chairman



Here we are, already in June. Looking forward to seeing everyone at the upcoming bowling tournament and trade show Thursday June 9, 2022. This month's article was provided by Edwin Gonzalez. Thank you Edwin for the Article, I thought it was very interesting and educational. Hope everyone enjoys it.

The number of Legionnaires' disease cases reported to the U.S. Centers for Disease and Control Prevention (CDC) has been on the rise for two decades (<https://bit.ly/3rhUPzz>). As the number of cases continue to rise, so does the need to manage the risks associated with premise plumbing systems.

In recent years, there has been an increase in *Legionella* awareness as multiple stakeholders have entered the conversation – government organizations, water utilities, health professionals, local jurisdictions, model code bodies, industry organizations, manufacturers, engineers, academic scholars, *Legionella* consultants, water treatment professionals, etc. These stakeholders hold conferences, attend seminars, create standards, develop guidelines, establish best practices, write research papers, manufacture products, and introduce model code changes.

Through the individual efforts of stakeholders enough is known about the bacteria and its transmission to successfully control growth in premise plumbing systems; however, with the continued rise in reported cases a comprehensive implementation of control strategies involving multiple stakeholders is necessary.

Most of the resources and standards available focus solely on water management plans and actions by facility operations staff. While this is certainly a critical component to managing risks, it overlooks the tremendous impact that comprehensive plumbing design can make in supporting key water management principles. Design professionals are essential to managing risks. Before diving into how to manage risks in system design, it is important to understand trends affecting premise plumbing safety.

A Perfect Storm

Both internal and external factors are contributing to the increase of Legionnaires' disease cases in the United States.

Aging water service infrastructure. Each year approximately 240,000 water main breaks occur in the United States (<https://bit.ly/3raGvc4>). According to the American Water Works Association (AWWA), repairing and replacing old water pipes could cost more than \$1 trillion over the next 20 years (<https://bit.ly/3IM46pf>). The residual effects of water main breaks include bacterial contamination and bacterial corrosion resulting in a habitat favorable to the proliferation of water-borne pathogens. Until new infrastructure is installed, the United States will continue to experience water contamination in municipal water service and premise plumbing systems.

(Continued on Page 21)

Education Update (Cont.)

(Continued from Page 20)

Wide spread use of low flow fixtures. Water use has changed drastically since the implementation of the U.S. Energy Policy Act (1992). This policy made the production and sale of low flow plumbing fixtures necessary to reduce water use; however, industry standard sizing methods for water distribution piping did not change. As a result, potable water service and water distribution systems are grossly oversized, creating an environment conducive for biofilm and bacteria growth.

Building water systems during COVID-19. Feeding the perfect storm is the extended vacancy and reduced occupancy that buildings are experiencing during the coronavirus pandemic. Re-occupying a building with neglected water systems increases the likelihood of *Legionella* bacteria transmission.

Increased lawsuits. With greater understanding of the causes of *Legionella*, there is an increase in allegations of negligence and liability claims. With a standard of care established in ANSI/ASHRAE Standard 188, just one Legionnaires' disease claim could cost negligent owners millions of dollars in litigation costs and settlement claims.

Insurance coverage. Insurance companies are fighting their liability for coverage as more lawsuits and claims are brought forward. Some insurers are limiting coverage or imposing higher deductibles if building systems are outdated (<https://reut.rs/33X10zS>). Others are asking customers to document how they maintain plumbing and cooling systems. This is leaving building owners exposed to great financial risks.

Owners are not the only ones exposed to allegations of negligence or liability claims; engineers are also exposed to liability given the widespread availability of industry research and recommendations concerning design strategies to control *Legionella*.

Many buildings lack a water management program. According to the CDC, 9 out of 10 *Legionella* outbreaks could be prevented with more effective water management (<https://bit.ly/3Hb1WPE>). In June 2017, the Centers for Medicare & Medicaid Services (CMS) released a memo requiring health care facilities to develop and adhere to an ANSI/ASHRAE Standard 188 compliant water management program to reduce the risk for *Legionella* in their water systems. While this requirement was a great first step to improving public health and safety, it should not stop here. Unfortunately, facility types outside of CMS jurisdiction are not required to develop or adhere to a water management program. Without this requirement, it makes implementing proven control strategies into a wide range of building types much more difficult.

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Education Update (Cont.)

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Continuous increases in construction costs. Construction costs have increased more than 5% each year since 2017 (<https://bit.ly/3rUXXAp>). Architectural, engineering, and construction teams are consistently asked to evaluate options for cost savings. Unfortunately, the unrelenting pressure to cut costs makes effective design concepts and innovative products developed to manage risk constantly vulnerable to elimination from the project design.

Managing Risks

Effectively managing risks associated with building water systems takes a commitment from everyone involved, from owners and operators to engineers and contractors.

Managing risks must be a priority of the building owner and discussed at the very beginning of project planning. Engineers should include recommended control measures in early conceptual and schematic design documents. This ensures control measures are included in initial cost estimates and creates an opportunity to discuss the owner's priorities concerning managing *Legionella*.

As the project moves through design development, engineers should focus on supporting key water management principles:

- Maintain water temperatures outside of *Legionella* growth range.
- Prevent water stagnation.
- Ensure adequate disinfection.
- Prevent scale, corrosion, and biofilm growth.

During construction, it is critical for engineers to review construction submittals through the lenses of *Legionella* control and assess all cost saving proposals. Yet the continuous increase in construction costs exposes effective design strategies and innovative products to elimination from the project to save money. An owner's commitment to managing risks is vital to the successful implementation of proven control measures. Engineers must balance public health and safety, good engineering practice, sustainability, operational efficiency and owner requirements while also being cost conscious.

Focus on the Fundamentals

Good engineering practice starts with fundamental *Legionella* control measures. These control measures often have little to no cost impact. Two of the most common control measures are maintaining water temperatures (hot and cold) outside of *Legionella* growth range and preventing water stagnation.

Unfavorable temperatures and water stagnation increase the likelihood of bacteria and biofilm growth. One of the biggest challenges to maintaining water temperatures is the domestic hot water recirculation system.

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Education Update (Cont.)

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Without proper balancing of the recirculation system, hot water circuits further away from the heat source (i.e., water heater) will struggle to meet or maintain design temperature while the hot water circuits closest to the heat source consistently maintain design temperature.

The reason is due to water taking the path of least resistance. To balance a system, valves are installed on each hot water return circuit to create resistance. This resistance encourages water to choose an alternate path while still allowing enough flow through the circuit to overcome heat loss. A properly balanced system will maintain and deliver hot water quickly and consistently throughout the building.

Multiple issues can affect the proper balancing of a system: system design, valve selection, commissioning, scale, renovations, repairs or neglected maintenance. The bottom line is most recirculation systems do not work correctly. As such, we have multiple balancing valve technologies on the market designed to improve system balancing.

Automated balancing valves are the best option to ensure a building consistently maintains hot water temperatures throughout the system. They provide a perfectly balanced system based on custom parameters, automate weekly maintenance to prevent scale build-up, monitor temperatures in real-time at each return circuit, and continuously log data for verification, risk assessment, and compliance.

Eliminating the potential for water stagnation using system design alone is not possible. However, engineers can reduce the potential for stagnation and support regular water exchange by using good engineering practices and manufactured solutions. Consider pipe routing, fixtures, and fittings to minimize dead legs and eliminate dead ends. In addition, provide a means to facilitate remedial or routine flushing. Routine flushing is a preventative action performed during periods of low water use or at seldom-used bypasses, mains, branches and outlets.

An overlooked potential for stagnation and bacteria growth is the period between substantial completion and building occupancy. Engineers can address stagnation during this time by including an automated system designed to periodically flush mains and branches according to time, temperature or usage. This ensures regular water exchange while the building is still unoccupied, thus minimizing bacteria and biofilm growth while maintaining residual disinfectant levels.

Minimizing and Managing Transmission

Legionella is transmitted through aerosolization. Contaminated droplets of water enter the lungs where the bacteria can grow potentially leading to severe pneumonia.

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Education Update

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In building water systems, aerosolization can take place at showers, faucets, decorative fountains, cooling towers, humidifiers, etc. Engineers should consider selecting plumbing fixtures that minimize the potential of producing aerosols. Sediment, scale, and corrosion provide a habitat and nutrients for *Legionella*. It is important to address these issues through the thoughtful selection of equipment and piping materials:

- Water filtration removes sediment and provides nutrient control.
- Water conditioning reduces scale in facilities with hard water.
- Supplemental disinfection allows facilities to control residual disinfectant levels.
- Select piping material that is corrosion-free and immune to degradation due to chlorine, monochloramine, or chlorine dioxide disinfectants.

Plumbing systems often lack the control and monitoring capabilities necessary for effective water management — even in the newest and most critical facilities. If controls and monitoring are installed, they almost exclusively require manual oversight and operation, which relies heavily on the operator's time, diligence, and expertise. Engineers must consider designing smarter, more intelligent systems that take advantage of market innovations to simplify water management. These systems automate fundamental control measures and allow operators to quickly respond to potentially hazardous system changes, perform risk assessments, and verify compliance with an established water management program.

Comprehensive Plumbing Design

Two long-term care facilities in the Southwest United States wanted to manage the risk of *Legionella* without the use of continuous supplemental disinfectant treatment. Engineers provided a comprehensive plumbing design by implementing a multi-barrier approach:

- Applied control measures at the point of source including water conditioning to reduce scale, ultrafiltration for nutrient control, and UV disinfection to destroy harmful microorganisms.
- Selected a booster pump with no accumulator tank and a flow-through expansion tank at the water heater to reduce potential risk.
- Designed hot water storage and distribution temperatures outside of *Legionella* growth range.
- Selected CPVC piping for hot and cold water distribution.
- Utilized “flow splitters” in the cold water system, minimizing dead legs.
- Recirculated hot water close to the fixtures to minimize the opportunity for bacteria growth and survival.
- Provided an intelligent system capable of automatically flushing valves to ensure regular water exchange, monitoring of control limits and continuous data logging.
- Provided ports for temporary supplemental disinfection (remedial or routine).

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Education Update (Cont.)

(Continued from Page 24)

By making a conscious decision to incorporate fundamental principles and comprehensive strategies into the design process, engineers can minimize the impact of emerging trends and give building operators the systems they need to manage risks successfully.

Going forward, if anyone would like to share any hot topics that might be informational to our viewers, please feel free to drop me an email with your topic @ kylestottlemeyer@gmail.com. Thank you for taking time out to read this month's article.

Sincerely,
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UPDATED 05/21

Schedule of Events

June 2022	
3 rd - 5 th	ASPE Region 3 Chapter Presidents Meeting – New Orleans, LA
9 th	Chapter Tabletop & Bowling Tournament
22 nd – 25 th	ASPE Global Leadership Meeting – Chicago, IL
September 2022	
22 nd to October 2 nd	ASPE Convention & Expo - Indianapolis, IN
November 2022	
4 th	2 nd Annual South Florida Chapter Clay Shooting Tournament
September 2023	
26 th to October 2 nd	ASPE Symposium – Bellevue, WA
September 2024	
18 th – 23 rd	ASPE Convention & Expo – Columbus, OH
September 2025	
TBD	ASPE Symposium – TBD





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