
HOUSTON CHAPTER

ASPE Newsletter

Chartered July 10, 1968

Jan-Feb 2025

Houston, Texas



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COMMERCIAL SALES
MANAGER CENTRAL

**TOPIC: Incorporating Semi-Rigid
Metallic Piping Solutions in Healthcare**

 February 5th 2025

 11:30am-1pm

 Dukessa

2840 Chimney Rock Rd, Houston, TX 77056

REGISTER TODAY @
aspehouston.com



President



February 2025

We've just wrapped up this year's annual plant tour, and what a fantastic event it turned out to be! A big thank you to Billy Turcios for organizing such a unique and enjoyable experience. The event saw an impressive turnout, and we're especially grateful for those who were able to showcase their product trailers along with beautiful weather that added to the day's success.

Looking ahead in February, we will have our regular scheduled chapter meeting February 5th At Dukessa. Please refer to Billy's article for all the details on our next meeting. Planning for the 2025 Annual Houston ASPE Chapter Product Show is well underway. Greg Salter and team are on top of it, all booths should be close to being filled up by now. Contact Greg at 832-202-4032 if you have any questions or if you simply would like to volunteer. Donald Taylor has traditionally hosted a CPD Review Course each March. However, he will no longer be offering these courses. Instead, he is now providing the training materials for a fee to support those preparing for the exam. Feel free to reach out to him at Donald.taylor@crbgroup.com or 405-406-0548. Lastly, the end of February kicks off the start to our popular Houston Livestock Show and Rodeo, YEE-Haw!

We're always looking for fresh ideas for future chapter events or meeting topics! If you have any suggestions, please don't hesitate to share them with one of our Board members. Your input is invaluable, and we want to encourage as much member participation as possible.

If you're interested in getting involved with any of the exciting events we have planned for this year, I'd love to hear from you. Feel free to reach out to me via email or give me a call. Let's make this a fantastic year together!

As we celebrate this season of love, we hope you take a moment to appreciate the people, passions, and small joys that make life sweeter. Whether you're spending the day with loved ones, friends, or indulging in a little self-care, remember love comes in many beautiful forms.

Thank you for being a part of our community, you make every day feel a little more special. Until next time, stay safe, stay kind, and spread the love! ❤️

Thanks,
Jaime Cruz
President

VP Technical



Dear ASPE Houston Chapter Members,

Welcome back from the holiday break! I hope everyone had a wonderful time celebrating with family and friends.

As we kick off the new year, we want to extend our heartfelt gratitude to all our sponsors for their continued support. A special thank you to those who contributed to the success of our recent plant tour and demo display at Karbach Brewing. It was a fantastic event, and I hope everyone who attended enjoyed walking through the brewery and interacting with the latest plumbing technology showcased by our sponsors. Your participation made it a memorable experience.

I want to give a special shoutout to Jaime Cruz and Zed Hernandez for their assistance in organizing the event. I could not have done it without your help—thank you both!

As we return to our regular schedule, I'm excited to announce that our first monthly meeting of 2025 will be held on February 5th. Our featured speaker, Samantha Hanna, will present on the topic: "Incorporating Semi-Rigid Metallic Piping Solutions in Healthcare." This promises to be an engaging and informative session, so please make sure to register in advance.

Additionally, our meetings are now being posted on the Houston ASPE Meeting section of the website as we secure speakers each month. While all technical speaker slots for our 2025 ASPE Product Show are now full, I'm happy to receive suggestions for speakers at our general meetings. Feel free to reach out to me at TheTurciosfam@gmail.com or call me at 832-229-7819.

I look forward to seeing all of you in February for this exciting session and wish you all a fantastic start to 2025!

Warm regards,

Billy Turcios

VP of Tech, Houston ASPE Chapter

What Is a CEU?

A **Continuing Education Unit (CEU)**, also known as Continuing Education Credit (CEC), is a **vital measure in ongoing education programs**, helping professionals maintain their licenses, or, in ASPE's case, their credential (CPD or CPDT).

The primary purpose of the CEU is to **provide a permanent record of the educational accomplishments** of a plumbing engineer/designer who has completed a significant noncredit educational experience.

CEUs also give plumbing engineers/designers a **means to be recognized as experts in their fields**.

Proving Your CEUs

In most cases, you must successfully pass a quiz to verify what you learned before CEUs are issued.

For the CEUs to be considered valid for ASPE's purposes, you must obtain a certificate that lists the name of the course and the number of continuing credit units issued.

Acceptable CEUs

Chapter meetings
Webinars
Workshops
ASPE Tech Symposium sessions
ASPE Convention & Expo sessions/walking the floor

Non-Acceptable CEUs

Factory tours
Non-educational Chapter events

education.aspe.org

VP Membership



Welcome new/returning members: Jason Criss (AJB Construction), James Hewitt PE, LEED AP (WC-Engineering)

Chapter	Total	PE	CPD	CPD + PE
Chicago	305	49	66	20
Dallas/Ft. Worth	277	67	50	17
Houston	244	34	34	15
Wisconsin	164	34	13	3
Central Texas	155	30	26	4
Minnesota	151	43	25	4
Kansas City	140	47	16	7
St. Louis	130	33	27	7
Omaha	76	14	14	1
Oklahoma	68	16	7	0
Arkansas	52	10	5	0
Central Illinois	32	6	5	0
Lubbock High Plains	12	5	0	0
Region 5 Total:	1806	388	288	78

Curtis Dady
VP Membership

Member Benefit Tips

BOOST YOUR INDUSTRY VISIBILITY

Demonstrate your abilities to lead and boost your industry visibility by volunteering to join your Chapter Board of Directors or apply to join the Society Board of Directors. Employers, clients, and coworkers respect and look up to ASPE Chapter and Society Officers. Without our leaders, we would not have a Society; it's worth the work.

SPECIAL-INTEREST GROUPS

ASPE Young Professionals (AYP) is designed for young industry professionals looking to meet with peers to share experiences, exchange ideas about the plumbing design industry, and network with other Chapter members. The focus of AYP is to help young plumbing engineers, design professionals, and practitioners establish contacts and further the mission of the Society. ASPE members 35 years old and younger are all included in this special-interest group.

The core mission of the Women of ASPE (WOA) is to engage, retain, and advance women in the plumbing design industry, through education, leadership development, and networking opportunities. WOA is committed to bringing together women and assisting them to achieve their professional and personal goals.

MEET POTENTIAL CLIENTS/MEMBERS

If you are an Affiliate member, in sales, who steps up and takes on a membership role, you are in a unique position to promote ASPE and your company. Your leadership role is a valuable way to place yourself in front of prospective clients and members. Talk to your Chapter Board of Directors and see what you can do to promote yourself and ASPE.

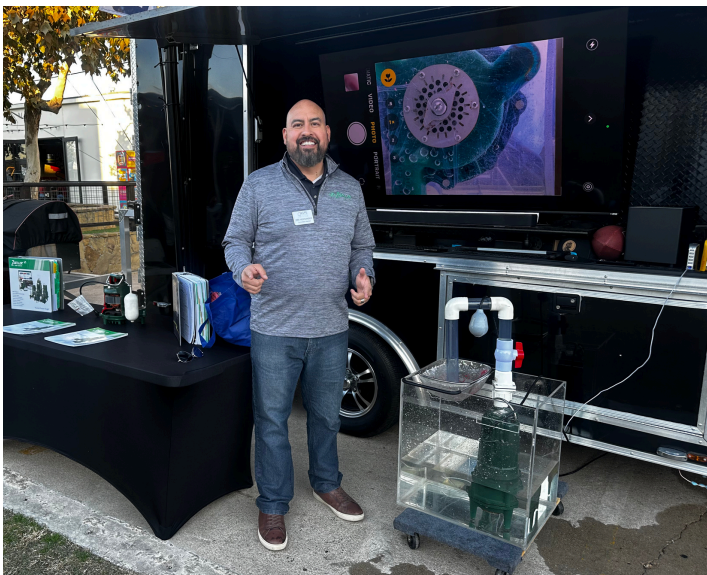
December Winter Wonderland







January Karbach Factory Tour and Demos





TECHNICAL MEETING

Designing with oil interceptors,
solid interceptors, and
chemical waste tanks.

WEDNESDAY, 5TH MARCH
11AM-1PM

DUKESSA

2840 CHIMNEY ROCK RD, HOUSTON, TX 77056

REGISTER NOW

WWW.ASPEHOUSTON.COM



Speaker: Brett Bass





www.aspehouston.com

ABOUT US ▾ MEETING/EVENTS NEWSLETTER AYP WOA **PRODUCT SHOW** SPONSORS CLASSIFIEDS | 🔍 🔒 in



PRODUCT SHOW WEDNESDAY APRIL 2ND, 2025

REGISTER FOR PRODUCT SHOW AND SEMINAR HERE ←

Booth Registration is NOW OPEN!



2025 Houston ASPE Product Show Registration

REGISTER NOW



Name

First Name

Last Name

Company Name

Email

example@example.com

Company Type

Urban Growth Impact on Sewer & Storm design



One of the latest challenges that have been affecting the city's utility infrastructure, is the fast and constant addition of vertical edifications.

Mid-rise and High-rise buildings require a large demand for water, and most important, these buildings will create a large drainage load that it was never anticipated by the developers decades back.

Nowadays things have changed, and each time that a large building is projected to be added to the existing drainage infrastructure, it is required to add to the building permit request the projected maximum drainage load, not just as the intended function of the building, but the possible projected load as if the building was going to be converted from office use into residential apartments in the future. We, as designers are required to provide this information. This information does not go beyond the usual five feet from the structure, even when the intended result will serve to increase the mains on streets, and or its designated sewer treatment plant.

Some cities based sizing on a LUE value (Living Unit Equivalent), in which the most used value is equal to 3.5 persons.

An office building is rated at 1 LUE per 3000 sq ft. or, one person per 857 sq ft and 200 gal/day/person, or 0.233 gal/day/sf ft.

Other cities just require 20 gal/day/person, based on "largest shift".

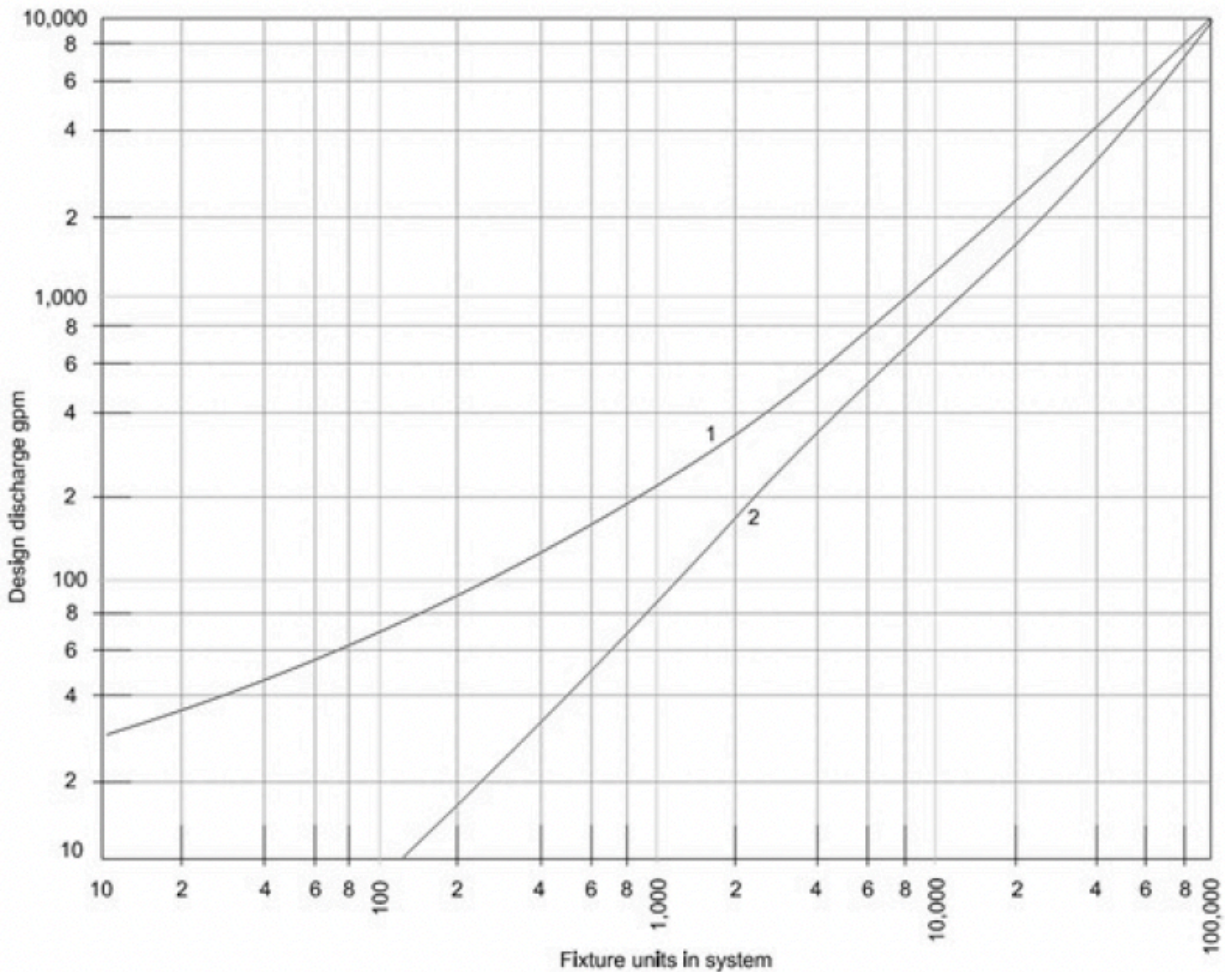
Another available value that can be used is the IBC occupant load (max occupant load factor)- 1 person per 100 gross sq ft, for business areas or 0.20 gal/day/sq ft.

What happens when the value is requested but there is not a well-defined calculation procedure established by the city or municipality?

Here is a practical table to be used to estimate those loads.

The NBS (National Bureau of Standards) Published the Nomograph 31, which is used as design flow curves for plumbing drainage systems.

NOMOGRAPH 31



Curve 1: Represents the peak discharge into the drainage system that won't exceed over 1 % of the time during the highest demand periods.

Curve 2: Is just to compare the relation to the average discharge into a drainage system at the heaviest calculated flow representing the use of toilets.

But that is only half of the situation to be solved.....

The other most common question, often asked by a civil engineer or developer, is: How many GPM (Gallons Per Minute), or CFS (Cubic Feet per Second) is the building storm drain load?

Both plumbing codes IPC and UPC have tables that will give you this information. We are so used to going through the code books and size per their tables, that the common equations and processes to obtain information have been forgotten.

However, here is the process to find that that drain value:
First, let's understand rainwater:

The amount of water in gallons one inch deep per square foot is 0.623

One inch of rainwater an hour = .0623 GPH divided by 60 minutes = 0.01038333 GPM (0.0104)

For a building with added vertical wall storm drainage load the Q=CIA formula is not fully applicable.

Here is a quick applied example on how to calculate that additional vertical load (equivalent roof area)

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

Define storm GPM and/or CFS, and Drainpipe size. The building location is under IPC with a rainfall rate of 4"/hr.

$$\text{GPM} = .0104 \times I \times \text{Area}$$

I= Rainfall Intensity- inches/ hour

A= roof area- Square Feet

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

$$1 \text{ CFS} = 448.831 \text{ GPM}$$

TABLE 1106.2 STORM DRAIN PIPE SIZING

Therefore:

- 4" rainfall per hour
- 22,500 sq. ft. roof area.
- GPM= .0104 x 4 x 22,500 sq. ft.
= 936 GPM
- 936 / 448.831 = 2.085 CFS

Per 2021 IPC requirements.

Based on a 4" inch/hr. rainfall for 22,500 equivalent square feet storm load, a 12" Ø drainage pipe will be required for a 936 GPM building drain load.

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

With this information you will have the answers needed for the impact in added load by a large building on the existing Sewer and storm infrastructures.

Here is other useful data regarding water loads. Water Equivalents (approximate)

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

Volume and weight

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

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

However, based upon the "rule-of-thumb" that ten inches of snow is equal to one inch of water, this value can vary considerably, depending on whether the snow is heavy and wet, or powdery and dry.

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

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

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



Rate of flow (in a stream)
Water flowing at the steady rate of
1 gallon per minute is equivalent to:
1,440 gallons per day;
0.00223 cubic foot per second;
192.7 cubic feet per day; or,
0.00442 acre-foot of water per day.

Water flowing at the steady rate of
1 cubic foot per second is equivalent to:
449 gallons per minute;
646,000 gallons per day;
86,400 cubic feet per day; or,
1.98 acre-feet of water per day.

Water flowing at the steady rate of
1 acre-foot per day is equivalent to:
226 gallons per minute;
326,000 gallons per day;
0.504 cubic foot per second; or,
43, 560 cubic feet of water per day.

Water flowing at the steady rate of
1 cubic mile per day is equivalent to:
764.6 million gallons per minute;
1.1 Trillion gallons per day;
1.7 million cubic feet per day; or,
3.38 million acre-feet of water per day.



[This Information is from, Rain a Water Resource (Pamphlet), U.S. Geological Survey, 1988]

References:

USGS (United States Geological Survey),
2021 UPC (Uniform Plumbing Code)
2021 IPC (International Plumbing Code), &
Practical Plumbing Design Guide by James
C. Church, P.E.

If you have any suggestions,
questions, or comments, feel free
to get in contact with me at:
JFDeHoyos@gmail.com

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ASPE Houston Chapter
Education Chairman
ASPE Society multiple
Committee member





Have you checked out ASPE Connect yet?

It's one of ASPE's greatest member benefits!

Our online community, ASPE Connect, is an invaluable resource to help you get expert advice and new insights on your design, career advancement, and product questions. And it's available only to ASPE members!

It's like having a brainstorming session with the world plumbing community.

- Paula Leatherman, CPD, FASPE

How to Get Started

1. Visit connect.aspe.org



2. **Sign in.** Your ASPE Connect login information is the same as your login for ASPE.org and ASPE Education. Once you are signed into one site, you are signed into all of them.



3. **Build your profile.** Help your fellow ASPE members get to know you by including a headshot, bio, education, and career history.



4. **Go to the Open Forum** and browse the discussions to add your thoughts to an ongoing conversation or start a new discussion.

Get Connected Today! connect.aspe.org

2025 Chapter sponsors



DIAMOND



GOLD



2025 Chapter sponsors

SILVER



BRONZE



What is ASPE?

The **AMERICAN SOCIETY OF PLUMBING ENGINEERS** (ASPE) is the only organization dedicated to promoting the plumbing engineering profession to both enhance career opportunities for our members and ensure the health, safety, and well-being of the public through the design of safe plumbing, drinking water, and sanitation systems.

WHAT WE DO



Provide continuing professional education programs



Publish design manuals, tools, and standards



Host conferences, tradeshows, and networking events



Certify professionals skilled in plumbing system design



Promote safe and sustainable water and sanitation systems



Represent the industry in local and national government



Help develop safe plumbing and building codes and standards



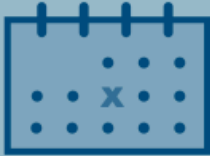
OUR MEMBERS

Our members are individuals working in various professions related to plumbing system design.

← What Is Plumbing Engineering?

Plumbing engineering is a vital part of the design/build construction process. Plumbing engineers use the principles of fluid flow with engineering calculations to design plumbing systems that transport fluids such as water, wastewater, natural gas, and rainwater throughout buildings.

BY THE NUMBERS



Founded in

1964



Number of Members Worldwide

6,500+



13

Elected Board Positions



66

Local Chapters

20+

Technical Publications



2

Special-Interest Groups for Young Professionals and Women

3

Professional Certification Programs



10

Staff Members



INDUSTRY PARTNERS

To achieve our goals, ASPE collaborates with the following organizations:

American Backflow Prevention Association

ARCSA

ASHRAE

ASSE International

Canadian Institute of Plumbing & Heating

CSA Group

IAPMO

International Code Council

National Institute of Building Sciences

NSF International

Plumbing Efficiency Research Coalition

Plumbing Industry Leadership Coalition

Plumbing Manufacturers International

United Association

Water Quality Association

World Plumbing Council

HOW YOU CAN GET INVOLVED



Our Chapters host monthly meetings, golf outings, tradeshow, seminars, picnics, baseball outings, and more fun networking events to help local professionals connect.

Contact a Chapter

Join Today!

Connect with Us



WHAT IS A Plumbing Engineer?

PLUMBING ENGINEERS are a vital part of design/build construction teams for residential, commercial, and industrial facilities. They interact with other construction trades to provide building owners with efficient, functional, and sustainable plumbing systems that protect the health, welfare, and safety of the public and prevent environmental contamination.

WHAT DO PLUMBING ENGINEERS DO?

PLUMBING ENGINEERS use the principles of fluid flow along with engineering calculations to design plumbing systems that transport fluids and gases throughout buildings. Those systems include:

$$S = \frac{rpm\sqrt{Q}}{NPSH^{0.75}}$$
$$x 2.31 - h_f L_h + \frac{(P_B - V_p)}{\text{Specific gravity}}$$



Domestic water systems



Wastewater



Fuel gas



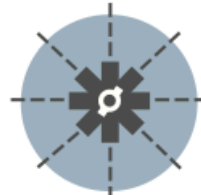
Medical gas & vacuum



Compressed air



High-purity water



Fire suppression



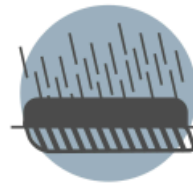
Chemical waste



Rain & stormwater systems



Venting



Site & building drainage



Water efficiency

WHAT DOES THE PROFESSION ENTAIL?

"The old adage that 'anyone can do plumbing' does not hold water anymore. A diversified and accomplished plumbing engineer is a valuable commodity in the design/build market."



PLUMBING ENGINEERS are highly skilled individuals involved in many different aspects of the design/build process, including:

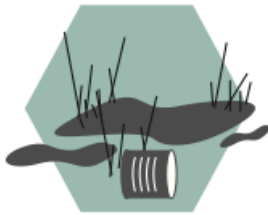
PLUMBING SYSTEM DESIGN	COMMISSIONING
PROJECT MANAGEMENT	CODE & STANDARD EXPERTISE
CONSTRUCTION ADMINISTRATION	FORENSIC & SUBSURFACE SYSTEM EVALUATION
BUILDING INFORMATION MODELING (REVIT)	COST ESTIMATION
PRODUCT & SYSTEM SPECIFICATION	PROBLEM SOLVING

PROTECTING PEOPLE & THE ENVIRONMENT

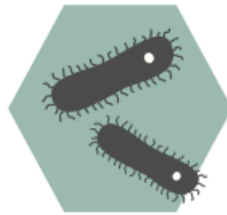
PLUMBING ENGINEERS help eliminate many of the threats that sicken people and harm the environment on a global scale by:



Delivering safe drinking water & sanitation systems



Combating groundwater contamination & depletion

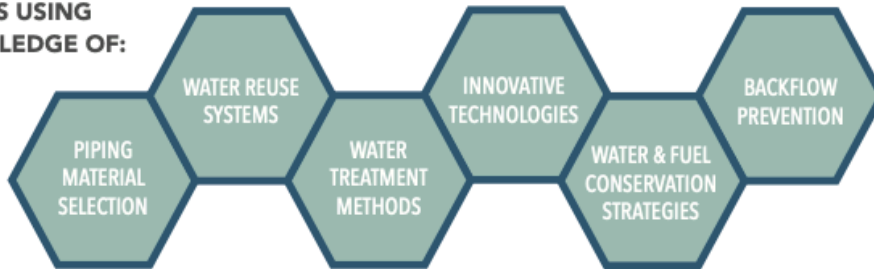


Preventing waterborne diseases



"Through their designs, plumbing engineers affect every life."

THEY DO THIS USING THEIR KNOWLEDGE OF:



HOW TO LEARN MORE

The American Society of Plumbing Engineers (ASPE) is the only association dedicated to promoting the plumbing engineering profession and helping plumbing engineers advance in their careers. Our members have a wealth of knowledge and experience and are ready to help others learn more about the industry.



To discover ASPE and find local contacts, visit:

aspe.org



Connect with Us



Special Interest Groups

Women
of ASPE®



Catelyn Cantwell

We're excited to welcome Catelyn Cantwell of Ferguson Enterprise as the new Women of ASPE representative for our Houston chapter! Catelyn brings her dedication and energy to this role, and she's eager to strengthen connections within our community. She's already working on a fantastic lineup of events for the new year, so stay tuned for opportunities to get involved, network, and grow together. Let's support Catelyn as she leads the way for Women of ASPE Houston!

ASPE
YOUNG
PROFESSIONALS



Michael Balboni

The ASPE Young Professionals (AYP) special interest group is designed for young industry professionals looking to meet with peers to share experiences, exchange ideas about the plumbing design industry, and network with other chapter members. The focus of AYP is to help young plumbing engineers, design professionals, and practitioners establish contacts and further the mission of the Society. ASPE Members 35 years old and younger are all included in this special interest group.



HAPPY

Birthday

January

Cyril Unger FASPE,GPD,CPD

Gary Ross

James Humphrey Jr.

Randy Muller LEED AP

Richard Cabrera

Sinat Svay

Troy Johnson

Jeffrey Holley

Shannon Spear

Bryan William Blass

Freddie Landaverde

Bella Vignola

Shane Young

Mohammad Soureety

Roemar Cereno E.I.T.

Adriana Hernandez

Beau Jolly

Alex Pozdrowski

Erik Schorken

Remington Quirante

Jeremiah Williams

Paul Garza

Catelyn Cantwell

February

John Garner P.E.,HFDP

Jay Stenklyft

Luminita Mihaela Bondar CPD

Geoffrey Lussier P.E.

Anthony Jaspal P.E., CPD

Michael Dodson

Vince Roach

Marcus Asmar

Victor Schneider

Chirs Fuller

Michael Rostvold

Vanessa Aguilar

Christon Royal

EdwinSaldivar

Mauricio Franco

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FOR ASPE:

Infinity MEP+S Consultants is Growing! And we Need YOU!

We are always looking for top talent to join our team, and now more than ever.

Positions available across Texas in Austin, Dallas, Houston, and San Antonio.

Opportunities Include:

Plumbing Designers, Mechanical and Structural Engineers!

Industries, Verticals, and Skills We're Looking for in Resumes:

- Healthcare Projects
- Higher Education Projects
- Laboratory & Life Sciences Projects
- Med-Gas
- Revit

Have any of the above? Ready for a change? Ready to grow?

Then join the team at Infinity MEP+S and work with us as we continue bringing passion to engineering across all types of projects - including commercial, industrial, oil and gas, higher education, science and technology, healthcare, high-rise residential, mission critical, and more.

Submit your resume TODAY to careers@infinitymep.com

Career Opportunities



Wylie Engineering is hiring! We are looking for Plumbing Designers with experience in building construction plumbing and fire protection systems design. Come join our dynamic team in our Houston office! Wylie Engineering has a strong history of serving the architectural and construction community in Houston, Austin, and across Texas – currently celebrating our 35th anniversary! Our portfolio includes diverse and interesting projects ranging from healthcare, lab, high-rise residential, commercial office, higher education and many more.

Primary areas of responsibility include providing design concepts for plumbing and fire protection systems, coordinating design with project management and other disciplines, and production of system designs using AutoCAD & Revit.

Certified Plumbing Designer (CPD) is preferred, but not required.

Please submit resumes to HR@wylieeng.com.

Career Opportunities



LEAF Engineers is a frontrunner for success in providing comprehensive mechanical, electrical, and plumbing, technology, and fire protection engineering design services. Our engineers are focused on system performance, reliability, flexibility, and ease of maintenance. Our work typically consists of large commercial projects, primarily award-winning K-12 schools. With an emphasis on teamwork, we reach beyond the traditional MEP approach to solve problems and integrate a more holistic style to our processes. Within LEAF, you will find a fast-paced environment with many opportunities to learn and accelerate your career.

LEAF Engineers is searching for a candidate to fill the Plumbing Engineer/Designer position. You will aid the engineering team in developing plumbing calculations, and plumbing system designs of gas, water, and waste systems.

Your Impact:

- Produce reports/drawings using calculations and specifications for various buildings
- Utilize client requirements and specifications to generate consistent drawings to meet their needs
- Assist senior engineering staff support in equipment selection through project calculations and equipment research
- Assist in the evaluation and equipment selection for the design of plumbing system components and apply standard engineering procedures
- Aid in areas that require consulting on feasibility reports and sustainability analyses
- Work with team to design plumbing systems like sanitary, water, gas, storm, medical gas, fire protection

Here's What You'll Need:

- Associate degree in Mechanical Engineering or related engineering technology degree preferred
- 3-5 years of work experience with an engineering consultant
- Proficient in Revit 2022 and AutoCAD 2021

Here's How You'll Stand Out:

- Licensed Professional Engineer
- CPD – Certified Plumbing Designer
- Ability to self-assess and command a high level of accuracy
- Strong oral, written, and communication skills
- Excellent time-management and organizational skills

Reasonable accommodations may be made to enable individuals with disabilities to perform essential functions. LEAF is an equal employment opportunity employer. It is our policy to provide equal employment opportunity in all phases of employment in compliance with applicable federal and state laws, rules, and regulations.

#OS #FT #AS

ASPE

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

connect.aspe.org



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Committee Members

Dave Cropper

Chapter Affiliate Liaison, Construction Industry Council

Francisco DeHoyos, CDP, FASPE

Society legislation committee co-chair, Society education committee member, Society long-range committee member Region 5 legislation representative, Houston Chapter Education Chair, Society College of Fellows Committee

Donald Taylor, CPD, GPD, FASPE, ASSE 6060

Board of Governors, Society Education Committee, Society College of Fellows Committee

Zed Hernandez

Webmaster, Newsletter Editor/ Social Media Director

Greg Salter / James McStravock

Product Show Chair/ Co-chair

Curtis Dady

Region 5 Affiliate Liaison

Chris Ennis, CET

Chapter Social Director

HOW TO BECOME AN ASPE VOLUNTEER

*Recognize Leadership
and Professional
Growth Opportunities
Through Participation
in ASPE*



Participation in ASPE

As the voice of the plumbing engineering industry, ASPE is sought out to provide the latest technical and legislative information as well as education and career growth opportunities for plumbing system design professionals. ASPE is dedicated to the advancement of the science of plumbing engineering, to the professional growth and advancement of our members, and to the health, welfare, and safety of the public, but we need the experts—our members—to help fulfill those goals. Your practical experience and knowledge will help ASPE provide top-notch service for our ASPE family members and other industry professionals worldwide.

Becoming involved is not a one-way street. Volunteering provides you with resources to keep up with the technical aspects of our industry. You will make new contacts and increase your voice. You also will have direct influence on plumbing engineering and become a recognized leader in the industry.

Here are some ways you can get involved to help foster technical innovation and professional advancement.

Become a Mentor

ASPE's new Mentoring Program is designed to connect ASPE members who have a particular skill set (mentors) with individuals (mentees) who are searching to acquire the same skills to make progress toward their personal and professional goals. Mentors gain satisfaction and personal fulfillment while helping others discover new talents and grow in the industry. To learn more, go to <https://connect.aspe.org/aspe-mentor-match/mentoring>.

Run for National Office

Every two years, Chapter delegates vote on the 12 national officer positions. Serving on the ASPE Board of Directors is the highest level of volunteerism and marks individuals as achieving the pinnacle of leadership within the Society. To learn more about becoming a candidate, review the Guide to the Board of Directors Nomination Process on the members-only page: <https://www.aspe.org/membership-global-community/membership/members-only/>.



Join Your Chapter Board of Directors or a Committee

With more than 60 ASPE Chapters worldwide, volunteering at the Chapter level is one of the easiest ways to become involved with ASPE. Volunteering at the Chapter level helps you develop a better understanding of how the Society functions and how to receive the most benefit from your membership, while also contributing to the betterment of ASPE.

ASPE's Chapters are run by dedicated individuals who provide high-quality technical and networking opportunities for local industry members. Many levels of participation are available: positions range from being the newsletter editor or golf outing chair to vice president, technical and president. By becoming a Chapter leader, you will increase your presence in your local area while helping others grow and succeed.

To learn about the roles of Chapter officers, go to <https://education.aspe.org/products/chapter-officer-training-video>.

If you aren't ready to join the Chapter Board of Directors, volunteering for a Chapter committee is the perfect way to get your feet wet. Contact information for your local Chapter can be found at <https://www.aspe.org/membership-global-community/chapters/>.



Share Your Expertise

Volunteering doesn't necessarily mean a long commitment. Several opportunities are available to share your knowledge and skills on a short-term basis.

- You can review and revise a chapter in one of the four Plumbing Engineering Design Handbooks, which are updated annually. Contact gpienta@aspe.org.
- You can present a one-hour webinar on a technical topic of interest to plumbing engineers. Contact education@aspe.org.
- You can write an article for ASPE's members-only publication, ASPE Journal, or Plumbing Engineer magazine. Contact gpienta@aspe.org.
- You can present a technical session at either the Technical Symposium or the Convention. Sessions range from 75 minutes to three hours. Contact education@aspe.org.

Serve on a National Committee

ASPE's Committees provide the backbone to the Society's operations. Committees are responsible for providing input on policies and procedures regarding everything from ASPE's technical publications and educational programs to the career growth of special-interest groups. Membership in the following Committees is available:

- Membership Committee
- Technical & Research Committee
- Education Committee
- Legislative Committee
- Long-Range Planning Committee
- Nominating Committee
- Bylaws Committee
- Finance Committee
- Credentialing Committee
- Main Design Standards Committee
- ASPE Young Professionals
- Women of ASPE
- Convention and Exposition Committee
- Technical Symposium Committee

To apply for a national Committee, just fill out the application found here: <https://www.aspe.org/membership-global-community/committees/>.



ASPE's Board of Directors and staff appreciate you volunteering and providing your knowledge and experience for the betterment of the Society, the advancement of plumbing engineering, and the protection of the public's health and safety. Thank you for your support.

Houston Amendments to the 2021 Uniform Plumbing Code



Adopted by Ord. No. 2023-907¹

Passed October 25, 2023²

Effective January 1, 2024³



¹. The City Secretary shall insert the number of the adopting ordinance.

². The City Secretary shall insert the date passage and approval of the adopting ordinance.

³. The City Secretary shall insert the effective date of the adopting ordinance.

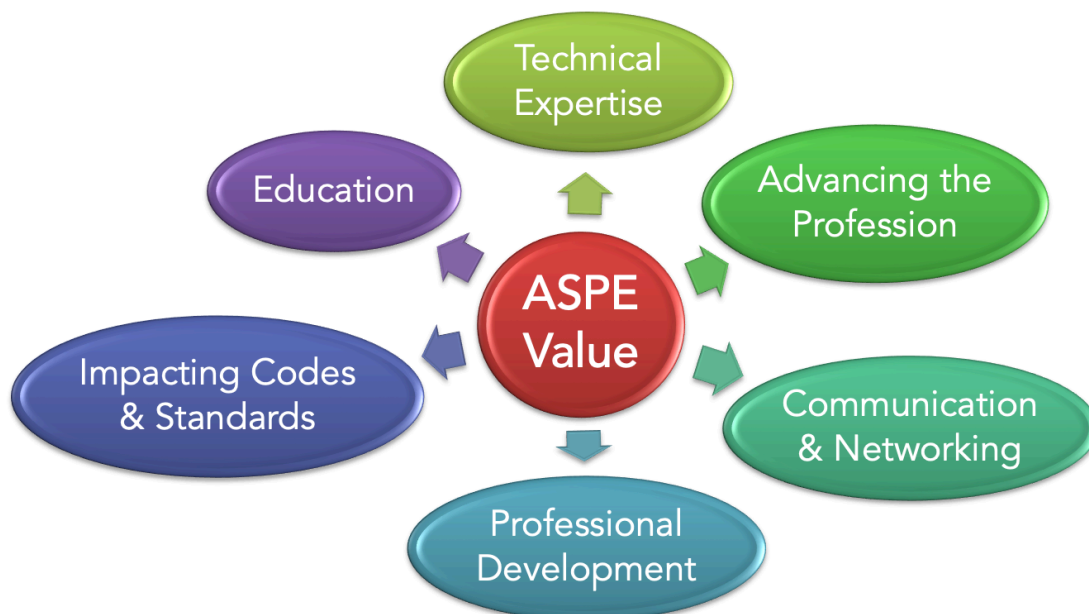


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ASPE Purpose

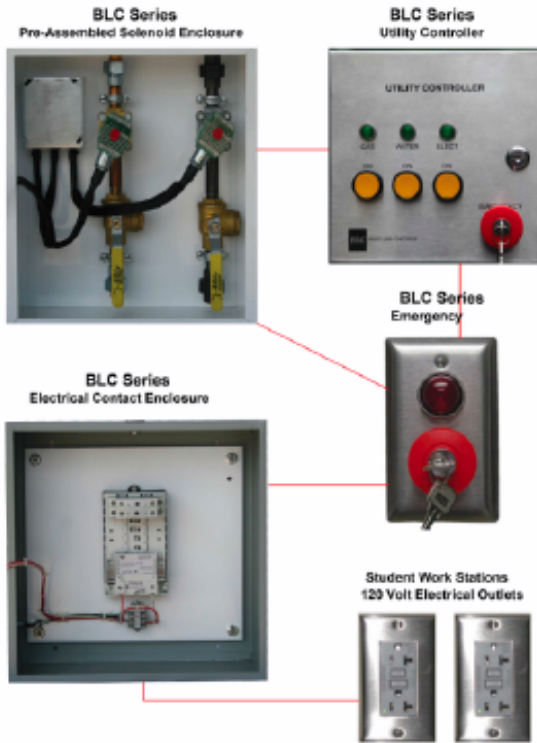
The core purpose of the American Society of Plumbing Engineers is to continually enhance and promote the profession of plumbing engineering design while assisting in improving the health, welfare, and safety of the public on a global scale.



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HOUSTON CONSTRUCTION CODE MODERNIZATION

SIGNIFICANT CODE CHANGES & HIGHLIGHTS OF THE 2015 TO 2018 AND 2018 TO 2021 UNIFORM PLUMBING CODE (UPC)



Download presentation



The following are the current construction codes enforced by the City of Houston.

Code	Publisher	Effective Date
2021 International Residential Code (with Houston Amendments)	ICC	January 1, 2024
2021 International Building Code (with Houston Amendments)	ICC	January 1, 2024
2022 Minimum Design Loads & Associated Criteria for Buildings and Other Structures (ASCE-7)	ASCE/SEI	January 1, 2024
2021 International Fire Code (with Houston Amendments)	ICC	January 1, 2024
2021 International Existing Building Code (with Houston Amendments)	ICC	January 1, 2024
2021 Uniform Mechanical Code (with Houston Amendments)	IAPMO	January 1, 2024
2021 Uniform Plumbing Code (with Houston Amendments)	IAPMO	January 1, 2024
2021 Swimming Pool and Spa Code (with Houston Amendments)	ICC	January 1, 2024
2023 National Electrical Code (State Mandated) ♦ Administrative Code Provisions (Effective January 1, 2024)	NFPA	September 1, 2023
Sign Code (Chapter 46 of the Houston Building Code)	COH	July 29, 2020
2021 International Energy Conservation Code (with Houston Amendments) - <i>For One and Two-Family Dwellings and Multi-Family 3 stories or less.</i>	ICC	January 1, 2024
2021 International Energy Conservation Code (with Houston Amendments) - <i>For Commercial Structures, including Residential Structures more than 3 stories</i>	ICC	January 1, 2024
ASHRAE 90.1-2019 (with Houston Amendments) – <i>For Commercial Structures, including Residential Structures more than 3 stories)</i>	ASHRAE	January 1, 2024
2021 Code Words - various sections interpreted and administrative policies	COH	N/A

- The enforcement of Chapter 11 of the International Residential Code became mandatory by state law effective September 1, 2016.
- The enforcement of the IECC-Commercial Provisions became mandatory by state law effective November 1, 2016.

ICC International Code Council
500 New Jersey Avenue, NW
6th Floor, Washington, DC 20001
(888) 422-7233
<http://www.iccsafe.org>

IAPMO International Association of
Plumbing and Mechanical Officials
4755 E. Philadelphia St
Ontario, CA 91761
(909) 472-4100
<http://www.iapmo.org>

NFPA National Fire Protection Association
1 Batterymarch Park
Quincy, MA 02269
1 (800) 344-3555
<http://www.nfpa.org/>

ACCESSIBILITY

For regulations pertaining to Accessibility, please contact:

Texas Department of Licensing & Regulation
Compliance – Architectural Barriers
PO Box 12157
Austin, TX 78711

877-278-0999 Toll-Free Number
512-463-6599 Voice Telephone
512-539-5690 Fax Number

For Technical questions Contact:
E-mail: Techinfo@tdlr.texas.gov
Phone: 512-569-5669
<https://www.tdlr.texas.gov/ab/abtas.htm>

The Houston Amendments to the Codes, the Sign Code, and 2021 Code Word can be downloaded at:
<https://www.houstonpermittingcenter.org/help/codes>

MECHANICAL, ELECTRICAL, AND PLUMBING PLAN REVIEW

PLUMBING

SPILMAN, STEVE Plan Analyst Supervisor 832-394-9174

LEWIS, BOBBY Sr. Plan Analyst 832-394-9175

LOGAN, RUSSELL Sr. Plan Analyst 832-394-9176

PARROTT, DANNY Sr. Plan Analyst 832-394-9185

SPELL, CASSIDY Sr. Plan Analyst 832-394-9524

WARREN, RICHARD Sr. Plan Analyst 832-394-9182