

September 22-26 // San Diego Marriott Mission Valley



ASPE Is Back In-Person for the 2021 ASPE Tech Symposium

Join your peers at this year's premier professional development event for plumbing engineers and designers. We once again are combining top-notch technical education with our popular Product Show and other special events, and we can't wait to see you in San Diego!

Why Attend?

At the 2021 ASPE Tech Symposium, you can:

- Discover the latest advances in plumbing system design techniques
- Network with hundreds of professionals from across North America
- Learn about new products and services
- Get solutions to your practical application problems
- Gain the skills you need to advance in your career
- Find innovative ideas to take back to your coworkers
- Earn up to 1.2 CEUs for your certifications and licenses

REGISTER NOW!

Go to aspe.org/2021-tech-symposium to register today. All full registrations include attendance at the education sessions of your choice, up to 1.2 CEUs, the two-day Product Show, welcome party, breakfast and lunch events, and committee meetings.

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TECHNICAL EDUCATION PROGRAM

The 2021 ASPE Tech Symposium features 40 technical education sessions designed for plumbing industry professionals at all career levels. Each session offers 0.15 CEUs that can be used for your license and certification continuing education requirements.*

	CODES & STANDARDS/ WATER QUALITY	SYSTEM DESIGN	SUSTAINABILITY/ CONSTRUCTION DISCUSSION	SPECIALTY DESIGN	FIRE PROTECTION, LIFE SAFETY & MORE
Friday, September 24					
1:30 - 3:00 P.M.	Responding to Crisis: Best Practices for Shutting Down & Reopening Buildings	Hydronic Expansion Tanks for HVAC & Plumbing Applications	Copper: A Key Element in Sustainable & Resilient Design	Firestop Pre-Con for Plumbing Engineers	Backflow Prevention Assemblies in Fire Protection Systems
3:15 - 4:45 P.M.	2021 International Plumbing Code Significant Changes	Design of Sitewide Natural Gas Distribution Systems	Water Treatment for Commercial Humidification	Firestop Installation for Plumbing Engineers	Tech Top 5 - The Most-Asked Questions (and Answers) from Reliable Automatic Sprinkler Technical Services Staff
Saturday, September 25					
9:00 - 10:30 A.M.	A Detailed Review of the ASSE 1087 Standard	Applying Roof Drain Flow Rates in System Design	Prefabrication: Not Just for a Manufactured Assembly	Selecting the Right Water-Based Fire Protection System	Nitrous Oxide, Nitrogen, & Carbon Dioxide Medical Gases
10:45 A.M. - 12:15 P.M.	Extending the Water Demand Calculator to Commercial & Institutional Buildings	Vacuum Plumbing for Safe, Sustainable & Future-Ready Plumbing Design	New Design Concepts in Response to Crisis: Balancing Sustainability & Water Safety	Designing DWV Systems with Cast Iron Soil Pipe	Fire Protection Special Hazards & Hazard Analysis
2:00 - 3:30 P.M.	Decoding Plumbing Codes	Designing Booster Systems - ASPE Chapter 5 Method	Applications for Smart Water Management in Commercial Buildings	Cast Iron Coatings for Aggressive DWV Applications	New Innovations in Med Gas Piping - Changes Found in NFPA 99
3:45 - 5:15 P.M.	Water Treatment Systems for Healthcare & Lab Facilities	PP-RCT for Building Services Piping	Oil Separators vs. Grease Interceptors Design & Sizing - Taking the Mystery Out	Automatic Auxiliary Drains: New Innovations in Freeze Protection	Becoming a Solution Provider
Sunday, September 26					
8:45 - 10:15 A.M.	CSST Gas Piping Systems Code Compliance & Sizing	Fuel Oil-Handling Systems for Generators & Boilers	Containerized Water Treatment & Plumbing Design	Water Heater Venting Fundamentals	Self-Regulating Variable-Speed Fire Pump Units - Better, Simpler & More Cost-Effective
10:30 A.M. - Noon	Emerging Contaminants in Drinking Water - Issues & Answers	Water Heating Design in the Modern World	Hot Water Distribution Temperature, Legionella Control & the Need for Enhanced Scald Protection	What's Old Is New Again: The Environmental & Operational Benefits of R744 Heat Pump Water Heaters	Leading Intentionally: A Young Professional's Guide to Developing Their Personal Leadership Vision in Construction & Beyond

Go to aspe.org/2021-tech-symposium/sessions for session descriptions, speaker bios, and room assignments.

*ASPE is recognized as an approved provider and sponsor of CEUs and PDHs throughout all 50 states for registrations and licensing requirements. Specifically, ASPE is approved as a Continuing Education Sponsor in the states of New York, New Jersey, Indiana, Louisiana, North Carolina, and Florida. It is ultimately your responsibility to make sure that you are in compliance with your state's rules and guidelines.

All sessions are subject to change. Consult the official program guide on-site for the final schedule.

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AYP LEADERSHIP ACADEMY

Next Level Leadership

Thursday, Sept. 23 // 8 A.M. – 3 P.M.

Engineering complex, dynamic systems in a world of budgetary constraints and rapidly evolving systems can be difficult, but the right skills and experience make that work manageable. The same is true of your leadership. Having the right skills and tools makes all the difference in creating the desired outcomes. Navigating the complexities of teams in the workplace can be daunting without them, and at the AYP Leadership Academy you will learn proven strategies for bringing the best out in yourself and in team members:

- **Tools for Difficult Conversations:** Managing tough conversations with your reports and managers is always a challenge, and learning how to best handle these situations is crucial for developing solid leaders in our firms.
- **Expectations and Boundaries:** Being able to balance satisfying the needs of your team at the same time as satisfying your individual needs is a problem for everyone. There always seems to be a loser and a winner. This discussion will help you find ways to make everyone a winner.
- **Valuing Team Members:** Having the ability to review your peers and provide praise or constructive comments is a skill that everyone can improve. The same goes in reverse: being able to receive the same comments and praise. You will learn how to recognize the positives and challenging values that your team brings to the table. Showing/known where your strengths are and that you are a valued team member will assist everyone in improving their craft.

The AYP Leadership Academy is open to professionals 35 years old and younger. The cost is \$170 for ASPE members and \$255 for nonmembers.

WELCOME PARTY

Sponsored by

CHARLOTTE
PIPE AND FOUNDRY COMPANY



San Diego Marriott Mission Valley Hotel
Friday, Sept. 24 // 6:00 – 8:30 P.M.

To welcome you to the 2021 ASPE Tech Symposium, the Friday Night Party/Reception Presented by Charlotte Pipe will be held at the San Diego Marriott Mission Valley Hotel. During this relaxing evening by the pool you will be able to meet up with old friends and build new relationships before hitting the town for dinner and other entertainment. Downtown San Diego and the Gaslamp Quarter are just a short trolley ride away.

AYP NETWORKING EVENT

Park & Rec

Saturday, Sept. 25 // 6:30 – 9:30 P.M.

ASPE Young Professionals are invited to an evening networking event at Park & Rec in University Heights. Unwind with your peers after an intense day of technical education with games, drinks, snacks, and fun!

Pre-registration is required, and you must be 35 years old or younger and registered for the 2021 ASPE Tech Symposium to attend. Attendance is limited to 40 people.

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Official
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PRODUCT SHOW

Thursday, Sept. 23 // 4 – 8 P.M.

Friday, Sept. 24 // 9:45 A.M. – 1:15 P.M.

We would like to thank the following Sponsors for their support of the 2021 ASPE Tech Symposium. All of our Sponsors will be exhibiting at the two-day Product Show, so please join us on Thursday and Friday to learn all about their latest innovations in plumbing design. The ASPE Tech Symposium Product Show is a unique chance for you to get one-on-one face time with the industry's top manufacturers and service providers. It also provides an excellent opportunity to get your product questions answered by the experts and possibly even influence future product designs.



HOTEL INFORMATION

The 2021 ASPE Tech Symposium will be held at the San Diego Marriott Mission Valley, which is the ideal gateway to experience the best of San Diego. Enjoy easy access to Old Town, or hop on the Rio Vista Trolley and explore Mission Bay, SeaWorld, and Downtown San Diego, including Petco Park and the Gaslamp Quarter.

ASPE has secured a special rate of \$169 single/double occupancy for attendees. To secure the discounted hotel rate, be sure to make your reservation by August 31, 2021.