

Chapter Meeting November 20, 2013

Technical Program:

Gas Booster System Applications

Speaker: Mr. Ernest Gallo

Location: Baci Grill
134 Berlin Road
Cromwell, CT

Time: 6:00 – Welcome
6:30 – Dinner/Business Meeting

Cost: \$30/ Members
\$30/Non Members or at the door

RSVP: Friday, November 15th
Ph: 800-854-8924
Fax: 860-568-680
Email: RSVP@CTAPSE.com
Online: www.ctaspe.com

President's Message

Nicole Parker, CT ASPE President

HAPPY THANKSGIVING!!

I would like to extend a very Happy Thanksgiving to all members. Hopefully everyone made it thru the rainy night of trick-or-treating with the children; I know we have more candy in our house than necessary! Reminder to all that this month's meeting as is on the third Wednesday of the month, November 20 due to Thanksgiving holiday. Next month we will have our Chapter's Christmas Party at the meeting.

CTASPE Chapter News

Save those Newsletters!!!

I would like to mention to all of the CPD's in the chapter to save your newsletters!! In each newsletter, I list member attendance for the previous month. This is your proof of attendance if you are audited by National.

Note: For our Inspector friends attending the monthly meetings, this is also your "proof of attendance" for the State's CEU's

Technical Program

This month's technical program will be "Gas Booster System Applications" presented by Ernest Gallo. I would like to thank Mr. Peter Gobis III for his very informational technical presentation on Thermostatic Mixing Valves at our October meeting.

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CTASPE Membership

As of May 01, 2013, The Connecticut Chapter's membership is 46. Our membership breakdown is as follows:

	May 2013	May 2012
Full Members:	30	31
Associated Members:	1	1
Affiliate Members:	13	15
Government Members:	0	0
Special Members:	2	2
Student Members:	0	0
Total Chapter Members:	46	49

New Members

If you are a new member of ASPE, the Connecticut chapter would like to welcome you and invite you to attend your first chapter meeting on us. All new society members will have their first chapter dinner paid for by the local chapter as a "Welcome to the Society". All you need to do is attend your first meeting and let one of the Chapter officers know, and we'll take care of the rest. Hope to see you at the next meeting.

Current Member Thank You

To all of our dedicated members who attend all of our meetings rain or shine, the Chapter would like to say "Thank you" for your continued support. That is why, if you attend five of our Chapters meeting this season, the sixth dinner is on the chapter. We will have a sign-in sheet available at the beginning of each meeting and we will be keeping track of all attending.

We start our count from the first meeting of the season, which is in September. Since the chapter tradition to pay for the December, we do not count that to the total.

Chapter Treasury

I am pleased to report to the membership that the Chapter is in very good shape for our size. I am proud to report that the Chapter is still able to remain self-sufficient.

I would like to say "Thank You" to all of the Chapter's members and our Affiliates for their continued support.

ASPE National News

As part of ASPE's 50th Anniversary celebration next year, ASPE will be publishing a yearbook of the Society's history, and they want every chapter to be included! They have sent out a questionnaire that they would like each Chapter to fill out to provide historical information about the chapter. The intent is to give every chapter space in the yearbook to let everyone know about your chapter's achievements over the years.

The questionnaire is as follows:

1. Provide up to 5 examples of how your chapter has contributed to your local community.
2. Provide up to 5 examples of how your chapter has contributed to the plumbing engineering industry.
3. Provide up to 5 examples of how your chapter has contributed to ASPE.
4. Provide up to 5 examples of how your chapter has contributed to charitable causes.
5. Name other achievements of your chapter that are noteworthy.
6. Name chapter members who have achieved positions of prominence in the local community or ASPE (include description of position).
7. Name other achievements of chapter members that are noteworthy.

If anyone has any information that would like included in as part of this please email me your answers at nparker@lindgrensharples.com

CT ASPE MEETING ATTENDANCE

Member	Sept 13	Oct 13	Nov 13	Dec 13	Jan 14	Feb 14	Mar 14	April 14	May 14
Nicole Parker		X							
Kyle Tasse		X							
Anthony Carosielli		X							
Scott Michaels		X							
Paul Leduc		X							
Bob Saba		X							
Peter Buttler		X							
Dori Daly		X							
Mark Bruder		X							
Russ Smith		X							
Rob Grome		X							
Adrian McIlvern		X							
Bo Prybyla		X							
Peter Gobis III		X							

I would like to thank all of the above members for their continued support of our Chapter.

October 2013 Meeting Minutes

Meeting Minutes

Place of meeting: Baci Grill Cromwell, CT

Date and time: October 23, 2013 @ 6:30 PM

Attendees: 14

Proceedings:

1. President Nicole Parker welcomed everyone to the Connecticut ASPE chapter October 2013 meeting.
2. President Nicole Parker announced that we have received a dues rebate payment from National.
3. President Nicole Parker announced as part of ASPE's 50th Anniversary celebration next year, ASPE will be publishing a yearbook of the Society's history, and they want every chapter to be included! They have sent out a questionnaire that they would like each Chapter to fill out to provide historical information about the chapter. She asked that if anyone has anything to contribute to please send it to her.
4. It was discussed as to how the Chapter will be able to fulfill this request from National and Nicole will look into past Chapter reports for charity donations and such.
5. President Nicole Parker announced to all CPD's in the chapter to save your newsletters. Attendance is listed for the previous month. This serves as proof of attendance if audited by the National Office.
6. President Nicole Parker introduced Mr. Peter Gobis III from Leonard who was the evening's technical speaker on "Thermostatic Mixing Valves."
7. President Nicole Parker thanked Mr. Peter Gobi III for his presentation and table top material.
8. Meeting adjourned 8:15 pm.

We believe the above to be an accurate representation of the events of the evening. Should any corrections be warranted, please notify within 48 hours of receipt.

By: Nicole M. Parker
President

ASPE Connecticut Chapter
Technical Program 2013-2014

September 25, 2013	Topic: CPVC Speaker: Mark Lemire Tabletop:
October 23, 2013	Topic: Thermostatic Mixing Valves Speaker: Russ Smith, Yost Tabletop: Yost Associates
November 20, 2013	Topic: Gas Booster Speaker: Ernest Gallo Tabletop:
December 11, 2013	Topic: CHRISTMAS PARTY Speaker: Tabletop:
January 22, 2014	Topic: TBD Speaker: Tabletop:
February 26, 2014	Topic: Quality and Pathogen Prevention Speaker: Viega Tabletop: Kyle Tasse, Viega products
March 2014	Topic: ASPE/ASHRAE Speaker: Tabletop:
April 23, 2014	Topic: Glass Acid Waste and Vent System Speaker: Steven Leek Tabletop: Jeremy Ross K Ross Company
May 28, 2014	Topic: Rainwater Harvesting Technologies and Design Speaker: Tabletop: Mike Flannery Engineered Product Sales

If you are interested in presenting at a CT ASPE Chapter Meeting please contact:

Vice President Technical:
Anthony Carosielli III
Silver/Petrucelli + Associates
3190 Whitney Avenue
Hamden, CT 06518
(203)230-9007 x248
acarosielli@silverpetrucelli.com

Technical Program

November Technical Program:

Gas Booster System Applications

The November meeting will be held on November 20, 2013 at the **Baci Grill, 134 Berlin Road in Cromwell, CT**. Reservations can be made on the website: www.ctaspe.com.

Reservations need to be in to rsvp@ctaspe.com no later than November 15, 2013.

The technical program offered for this meeting will be **"Gas Booster System Applications"**, presented by Mr. Ernest Gallo and will cover the following:

1. Review discussion on Hermetically Sealed Gas Booster design
Principal of Design and Operation
2. Factory built Package Booster Systems
Advantages versus loose knocked down components
3. Application of Package Gas Boosters in current NYC SCA Installations
Review of project gas usage
Review of Installation Guidelines (Hazardous or Non-Hazardous Locations)
Use of Cooling Loop with Heat Exchanger
Use of Automatic Flow Controller
Use of separate lock up type Gas Pressure Regulators
4. Outdoor Enclosures
5. Emergency Power
6. This is the topic for this evening's presentation that includes one (1) PDH Credit for New York State Licensed Engineers.

Biographical Data:

Ernest Gallo is with the Accardi Companies, manufacturer's rep and distributor of Eclipse Gas Booster Products.

He has the responsibility of working with the NYC Metro Area Architects & Engineers in sizing and applying Hermetically Sealed Gas Booster Systems to many and varied applications including Boilers, DHW Heaters, RTU's, Restaurants and Standby Generators.

Ernie was in the world of Instrumentation and Measurement Control (receiving ISA's Distinguished Achievement Award) until one day he realized that manufacturing was moving away. Realizing that the people remaining behind would always need heat and hot water, he studied for his boiler operator's license and began a new life in Mechanical Equipment and Gas Meter Rooms.

FYI - 'Older cities' cannot support medium to high pressure natural gas lines in the street and because of this deficiency / limitation within the infrastructure he found **Gas Boosters** as a solution.

Developer Won't Appeal Storrs Center Hotel Decision

by KENNETH R. GOSSELIN *Hartford Courant* Date: October 23, 2013

The developer of Storrs Center near the University of Connecticut won't appeal a decision by town of Mansfield rejecting the addition of a hotel to the project.



“Obviously, we are disappointed with the decision,” Howard Kaufman, managing member of developer LeylandAlliance, told me today. “We proposed the hotel because we felt it would be a great addition to Storrs Center and the new downtown mixed-use neighborhood we are creating.” He added: “In any event, we will not appeal. It is time for us to move on — we know we can develop a new plan that will be a positive addition to the new downtown.”

LeylandAlliance had asked the town to change the zoning for Storrs Center to allow a hotel, not previously permitted. The planning and zoning commission earlier this week voted 6-3 against the request.

Two nearby hotels operators — the Nathan Hale Inn & Conference Center and the Best Western — opposed the zoning change. They argued that it would further slice a hotel market that is already thin and one can fluctuate significantly depending on the season.

Jo Ann Goodwin, the planning commission's chairman, told me today that the commission did not consider whether a third hotel was needed in the area. The main concerns raised by the commission, she said, were the loss of 100 apartments originally planned for the site of the hotel, traffic and parking.

“The intention of the downtown was to be pedestrian friendly, foster local business, be a place for people to gather, and a hotel seemed inconsistent with all those things,” Goodwin said.

Tuxedo Park, N.Y.-based LeylandAlliance had proposed a 100-room, Fairfield Inn & Suites by Marriott. The hotel was expected to cost about \$5 million to build.

LeylandAlliance had argued that another hotel would be needed in the future. The developer said the university was growing, especially with the planned addition of a research park.

Kaufman said LeylandAlliance would consider restoring the apartments where the hotel was planned.

The \$220 million Storrs Center, on the southern edge of UConn's main campus across from E.O. Smith High School and Mansfield town hall, has already added 322 apartments and nearly 75,000 square feet of retail space, with plans for more.

MEMBERSHIP APPLICATION

(Please Print or Type)



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INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED.

☐ Mr. ☐ Ms. ☐ Miss ☐ Mrs.

First Name (Nickname) Middle Name Last Name

Birth Date: M /D /Y Check all that apply: ☐ P.E. ☐ P. Eng ☐ CPD ☐ Graduate Engineer ☐ LEED AP ☐ CET ☐ Other

I wish to affiliate with the Chapter. Certification (P.E.) State Certificate No. Branch

Preferred Mailing Address ☐ RESIDENCE ☐ BUSINESS

RESIDENCE: Street Address City State ZIP Phone

E-mail (required) Business E-mail Cell Phone

BUSINESS: Organization Name Your Title Phone Fax

Street Address City State ZIP

Other organizations you are a member of: ☐ ASHRAE ☐ ASSE ☐ NFPA ☐ NSPE ☐ ASME ☐ PHCC ☐ ICC ☐ IAPMO ☐ SFPE ☐ Other

EDUCATION

	Name of Institution	Course or Major	From	To	Graduation Date	Degree/Diploma
High School						
College/University						
Technical School						
Others						

PROFESSIONAL EXPERIENCE

(This section must be completed as it affects membership grade classification. List chronologically, beginning with the present. Work description must be clear and concise: e.g., plumbing, piping, fire protection, HVAC, etc. Use additional sheet as necessary.)

Date(Mo/Yr)	Firm Name and Address	Class* (see below)	Title	Description of Work	Degree of Responsibility
From	To				

*Classification of Firm A - Arch./Engr. or Cons. Engr. B - Govt. Agency C - Mfr. or Mfr's. Rep.
D - Educ. Inst. E - Contractor F - Other (Explain)

REFERENCES

(References should be in engineering profession. ASPE members preferred. ASPE reserves the right to contact references.)

Name	Address	Telephone

PLUMBING ENGINEERING DESIGN HANDBOOK

New members receive one of four volumes of the this definitive collection of general plumbing practices. As an ASPE member you will be sent the CD-rom unless you indicate preference for the softcover edition. If you would like both the CD-rom and softcover editions, please add \$50 to your total to the right.

☐ CD-ROM ☐ SOFTCOVER

CERTIFICATION BY APPLICANT

The undersigned certifies that all statements made herein are correct and, if elected to the Society, agrees to adhere to the Society's Bylaws and accept the Classification conferred by the Society. Upon becoming a member, the applicant will endeavor to advance the objectives of the Society and the plumbing engineering profession.

Signature of Applicant Date

Sponsor (Please Print)

How did you hear about ASPE? ☐ Past Member ☐ Plumbing Engineer Magazine ☐ Colleague/Employer ☐ ASPE App ☐ Website
☐ Other

American Society of Plumbing Engineers member dues are nonrefundable and not deductible as a charitable expense, but may be deductible as a business expense.

* Contributions to ASPE Education (create education programs for membership) and Alfred Steele Scholarship (to award college scholarships) Funds are Strictly Voluntary and are not deductible as a charitable contribution but may be deductible as an ordinary and necessary business expense.

** Contributions to the ASPE Research Foundation are Strictly Voluntary and are tax deductible as a charitable contribution.

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REMIT MEMBERSHIP DUES WITH APPLICATION

Member Type	Amount	Amount Due (Enter Amount)
<input type="checkbox"/> Full	\$190	\$_____
<input type="checkbox"/> Associate	\$170	\$_____
<input type="checkbox"/> Affiliate	\$190	\$_____
<input type="checkbox"/> Special	\$190	\$_____
<input type="checkbox"/> Governmental	\$190	\$_____
<input type="checkbox"/> Student	\$ 30	\$_____
<input type="checkbox"/> PEDH CD & Book	\$ 50	\$_____
<input type="checkbox"/> ASPE Alfred Steele Scholarship Fund*	\$ 25	\$_____
<input type="checkbox"/> ASPE Education Program Fund*	\$ 25	\$_____
<input type="checkbox"/> ASPE Research Foundation**	\$ 25	\$_____

TOTAL AMOUNT DUE \$_____

Payment Information:

☐ Enclosed is my check payable to ASPE.

Please charge my: ☐ Visa, MasterCard ☐ Discover ☐ American Express

Card # _____

Exp Date: _____

Signature: _____

Date: _____ Telephone: _____

Immediate Member Benefits

The Plumbing Engineering Design Handbook: The most definitive collection of general plumbing practices in the field of plumbing engineering. The ASPE Handbook consists of forty-seven chapters divided into four volumes. New members receive one of four volumes immediately upon joining and the revised volume thereafter.

Plumbing Engineer Magazine: Members immediately begin receiving *Plumbing Engineer* magazine. This monthly magazine covers a wide spectrum of topics important to the profession and to daily practices in the field.

The ASPE Report: The Society's bimonthly newsletter, incorporated within the *Plumbing Systems & Design* magazine, keeps members abreast of Society activities and issues impacting the profession.

Publication and Education Program Discounts: All publications, education programs, and other services and products of the Society are offered at special discounted rates to ASPE members.

Collegial Interaction and Networking

Every ASPE member not only belongs to ASPE worldwide, but has the opportunity to belong to one of 62 Chapters organized throughout the United States and Canada. Chapters sponsor seminars, conduct monthly technical meetings, publish newsletters and offer special peer-to-peer and professional-to-professional interaction and networking opportunities.

Professional Growth and Development

The ASPE Biennial Convention and Engineered Plumbing Exposition (EPE) is the premier educational and professional development event for plumbing engineers and designers. The Convention features a comprehensive program of educational, technical and professional development presentations and seminars designed to enhance professional knowledge and foster awareness of new techniques. The concurrent EPE is the largest Exposition dedicated entirely to the field of plumbing engineering.

The ASPE Technical Symposium is offered in non-Convention years and provides a unique forum for the most comprehensive and intensive half-day and full-day plumbing engineering design seminars and workshops available anywhere. The "hands-on" workshops provide the plumbing engineer with information about new developments in the industry and new techniques for practical implementation in the field.

Technical Seminars and Workshops sponsored by ASPE offer one- or two-day programs conducted by leading industry professionals. Each educational program focuses on a specific area of plumbing engineering.

Continuing Education Units (CEUs): ASPE offers the opportunity to earn Continuing Education Units at selected technical program sessions at the biennial Convention, the Technical Symposium and at stand-alone Seminars and Workshops. CEUs are nationally recognized units of achievement that may be used as evidence of increased performance capabilities and for job advancement.

The Society shall be open to anyone involved in, or having a special interest in, the design, specification or drawing of plumbing systems.

Dues: Please choose the appropriate membership classification and remit dues with this application. In the event the membership classification is changed, a corrected dues statement (or dues overpayment refund) will be sent with your notice of election.

Membership Classifications

Membership classification (Grade) will be conferred based on Article II of the ASPE Bylaws as follows:

Full Member: Eight (8) years of experience in plumbing engineering or related engineering field, a minimum of four (4) years of which must have been in a position of responsibility for the design of plumbing systems or in a position of responsibility for the design of systems and components related to, or incorporated within, plumbing engineered and designed systems. A maximum of four (4) years of experience may be waived by the Society Membership Committee for: (a) Education: one-half (1/2) year for each completed year in a curriculum related to plumbing engineering; (b) Engineering Registration: four (4) years for Professional Engineer registration in a field that includes plumbing engineering; (c) CPD certification: two (2) years. Dues: \$190.

Associate Member: Professionals engaged in plumbing design as consultants or engineers with fewer than eight years of industry experience. Dues: \$170.

Affiliate Member: Any individual involved in the production or marketing of plumbing products. Dues: \$190.

Retired Member: Any retired member with ten (10) years of continuous membership in the Society who has reached the age of sixty (60) years and is no longer active in the profession. Members in this category will not receive *Plumbing Engineering Design Handbook* materials and shall pay substantially reduced annual dues. Dues: \$40.

Special Member: Professionals in related fields, such as contractors, or those with a special interest in plumbing design whose professional background do not match the requirements for any of the other categories may apply for Special membership. Dues: \$190.

Governmental Member: Anyone employed by municipal, state, or federal governments for one of the following reasons:

- A. Checking and/or inspection of plumbing plans and installations;
- B. The formulation of codes, rules, requirements and regulations pertaining to the planning, designing and installation of plumbing systems, or any portion of a plumbing system;
- C. Research and development of plumbing systems design criteria. Exception: Persons employed by a government agency for the purpose of designing and/or specifying plumbing systems, who shall be eligible to be Full or Associate members, provided they have fulfilled the experience required as outlined for each respective classification. Dues: \$190.

Student Member: Any individual attending a recognized university, college, community college, vocational, or technical trade school full time or part time in a curriculum related to plumbing design. Student Members are considered to be an introductory level to the Society. Student membership shall be limited to five (5) years after which time the membership shall be upgraded to an applicable membership classification as deemed appropriate by the Society. Other member classifications shall not be permitted to downgrade to a Student Member classification. Dues: \$30.

New Supermarket Chain Comes To CT: Best Market Opening In Newington

DAN HAAR, *Hartford Courant*, October 22, 2013

Best Market, a chain of 17 supermarkets in Long Island, New York City and New Jersey, is making landfall in Connecticut with a store set to open as early as Friday in Newington.

The store, near the town center at the site of a former Waldbaum's Food Mart that closed a few years ago, is about 32,000 square feet — and is not likely to remain as the chain's only Connecticut location. The company is hiring as many as 150 people and is scrambling toward a possible "soft" opening Friday with a grand opening a week or so after that, if all goes well.

CEO and President Rebecca Philbert, busily overseeing the scene as a sign company installed the large letters above the front door late Tuesday morning, stopped for a minute to describe Best Market's strategy — not an easy task for a full-service market that appears to combine several niches.

"We're a fresh foods store that sells groceries," Philbert said, with a disproportionate share of sales coming from perishable foods, including meats and dairy and features such as an olive bar.

The company bought the entire Northwood Plaza shopping center on Lowrey Place where the store is located, indicating its commitment, Philbert said.

Dry goods shelves in the aisles of the Newington store were largely stocked by Tuesday as construction workers, Best Market employees and vendors walked in and out. "They have the freshest produce at the best price," said Burr McDermott, regional manager for Kayem Foods Inc., a maker of meat products. "Meats as well."

Best Market is in the midst of changing its brand from Best Yet Market, across the chain. The family-owned company started in 1994 in Ronkonkoma, in Suffolk County, Long Island. The owners' father had run a produce business in New York City.

"We're super-excited and we can't wait to open and show what we've got," said Jonathan Sender, the marketing vice president, from the main office. "It's something they're really looking forward to in that community."

That's certainly true for Antonio and Maria Teixeira, retired factory workers originally from Portugal, who were walking past the parking lot near their house. Antonio said he'd sometimes walk to the market.

"Depends on the groceries I've got to buy."

Best will need to be more than a neighborhood market, of course. Sender wouldn't give average sales figures per store, but he said, "We anticipate it being a very, very successful store....the future is wide open."

In greater Hartford, Best Market enters a highly competitive grocery marketplace with Stop & Shop as the largest player, family-owned Big Y Foods and Whole Foods very active, and also including Walmart — which has a growing presence. Because Best Market offers a range of natural and organic foods, some people have called it a slightly more downscale Whole Foods, although it's not a discount warehouse.

Sender couldn't resist taking a shot at Whole Foods when I asked for his reaction to that comparison. "You don't have to spend your whole paycheck when you're shopping with us," he said, referring to the derisive "Whole Paycheck" nickname.

Sender said he considered the store to be a destination for shoppers not just from Newington, despite its midsize floor footprint, smaller, for example, than many Big Y stores.

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New Supermarket Chain Comes To CT: Best Market Opening In Newington

DAN HAAR, *Hartford Courant*, October 22, 2013

Considering the general lack of growth in metro areas like Hartford, a new supermarket entrant must take market share from existing stores, said Jon Springer, associate editor of Supermarket News, a trade publication. So, what would give Best Market executives the confidence to expand into a region 100 miles from its nearest store?

Best Market bought the 70,00-square-foot Northwood Plaza — rundown and largely vacant — for \$2.25 million in an auction in March, seven years after the previous owners paid \$6 million. The company has refurbished the entire center, much of which remains vacant.

Aside from a good real estate deal, the Best Market owners' draw could be help from a major supplier, or a belief that their strategy is superior, or knowledge that their location is underserved. "There's any number of reasons these guys might see a business opportunity here," Springer said. "Grocery is always competitive."

With markets always looking for something to set them apart, Best Market's Newington store — the 18th in the chain — will include a large meat smoker, Sender said. The company launched that feature in its three-story Harlem location earlier this year, and it's been a success there.

Anytime a new entrant hits the market, it's good for the region's customers. But unlike some companies, such as the wholesale clubs, Best Market refuses to be pinned down to a certain niche. Sender declined to say, for example, whether Best Market will stick to largely middle-class towns such as Newington, or perhaps go after more upscale Farmington Valley towns.

"Anyone who eats is our customer," he said.

Picture below: Workers at Best Market prepare to open a store in Newington.

(Rick Hartford) (October 22, 2013)



PEX in Commercial Piping Applications Webinar

**Earn Continuing Education Credits:
This one-hour contact program provides .1 CEUs / 1.0 PDHs.**

While the use of crosslinked polyethylene (PEX) piping has been widespread in residential applications for some time, building owners, contractors and engineers are moving towards it as a cost-effective and flexible alternative to copper for plumbing and hydronic distribution on large-scale commercial projects. PEX has become a proven system solution that reduces both material and labor costs while providing the reliability and peace of mind that building owners demand. When considering PEX, however, it is important that contractors and engineers understand not only the benefits but the challenges and potential pitfalls.

This one-hour sponsored webinar will examine the following:

- What is crosslinked polyethylene (PEX)?
- What are the different types of PEX and fitting systems available in the commercial marketplace?
- What are the advantages of PEX compared to copper or CPVC?
- How does a PEX design differ from a copper design? What design considerations need to be taken into account? • Is PEX plenum-rated?
- How do recent code changes/approval affect the use of PEX in commercial projects?
- What are common design and installation best practices?
- What about the health and safety concerns surrounding PEX?

ASPE members, www.aspe.org to register today for this FREE webinar on December 9!

Sponsored by:

The logo for Uponor, featuring the word "uponor" in a bold, blue, lowercase sans-serif font.

Plumbing Engineer

November 5th, 2013

CHICAGO – The American Society of Plumbing Engineers (ASPE) announced that the American National Standards Institute (ANSI) has approved ASPE/ANSI 45-2013: Siphonic Roof Drainage as an American National Standard.

ASPE became an ANSI-accredited standards developer in May 2012, and its first initiative was submitting ASPE 45, originally published in 2007, for approval as an American National Standard. The Working Group headed by Chair Peter Kraut, PE, utilized ASPE's ANSI-accredited standards development procedures and public review to thoroughly revise the standard for publication.

"The group worked tirelessly for more than a year, discussing and debating the best practices from our collective experiences. We had representation from engineering, manufacturing, and contracting as well as professionals involved in other national standards," said Peter, president of South Coast Engineering Group Inc. "The final product is an exemplary standard that clearly defines the way siphonic roof drainage should be designed. I am extremely proud of the Working Group, ASPE's Main Design Standards Committee, and all of the volunteers and staff at ASPE who made this happen."

This new American National Standard establishes the minimum performance specifications for siphonic roof drainage systems and is intended to provide designers, installers, and code officials with a standard of practice for the proper application of siphonic roof drainage. ASPE/ANSI 45 applies to engineered siphonic roof drainage systems intended to prime and operate full-bore through proper pipe dimensioning and the use of siphonic roof drains. It does not apply to conventional roof drains covered under ANSI/ASME A112.6.4, atmospheric roof drainage systems, or sanitary drainage systems.

"ASPE is committed to developing design standards for the construction industry to help ensure the consistent engineering and installation of safe, water-efficient, and energy-conserving plumbing systems," said Jim Kendzel, MPH, CAE, executive director and CEO of ASPE. "ASPE/ANSI 45 is just the first of many American National Standards ASPE plans to develop for our members and the plumbing engineering industry at large."

To purchase ASPE/ANSI 45-2013, or for more information on ASPE's standards development program, contact Director of Publications & Standards Gretchen Pienta at gpienta@aspe.org.

By using available and abundant resources, one can make sensitive ecosystems greener and more productive. Innovative methods and solutions can turn profits in the world's most deprived areas.

Extreme deserts cover over a third of the Earth's land area. They are harsh and unpredictable environments, where the lack and uneven availability of water makes it difficult or impossible to farm. They are also sensitive – careless logging and depletion of soils in dry areas is associated with a constant risk of soil erosion and further desertification. Yet, these areas are home to more than 10 percent of the world's population, many of who are among the poorest. But deserts are also rich in two unique resources: sun and space.

Thermal solar power

A technique that takes advantage of this is thermal solar (Concentrated Solar Power, CSP), which means that sunlight is concentrated and runs a heat engine. The low cloud formation in combination with the amount of unused land makes an attractive location for such installations.

Thus far, the predominant focus has been to use light to heat water pipes, and store the energy. Water is then evaporated through a heat exchanger, before the energy is finally converted into electricity via a steam turbine.

Another form of thermal solar power is a wide field covered with rotating, computer-controlled mirrors, called heliostats, which continuously track the sun's movement, and direct the heat to a solar tower. The sunlight is concentrated in this way from the field's entire surface to a single point.

Oil has previously been used as a heating media, but the hope in the future is to yield even higher temperatures with molten salts or liquid sodium.

An alternative and efficient way to use the heat is to directly power Stirling engines. There are two Swedish companies at the forefront of these applications, such as Cleanergy and Ripasso Energy, which developed the Kockums Stirling engines and adapted them for solar power applications.

Water is key

If the desert is recaptured, it must bloom. Desert planting is not a new idea, but a limiting factor is the availability of water. Water is not scarce in an absolute sense – however, there is a local shortage of clean drinking water, especially where it's needed most. So-called seawater greenhouses are intended to be placed in dry areas. The concept is to pass seawater through an evaporator. It then passes the greenhouse roof where it is heated by the sun that acts as a second evaporator. It is then condensed into fresh water by cooled incoming seawater. The fresh water is used for irrigation.

Synergies provides hope for the future

Perhaps the most interesting of synergies, from a future perspective, is what can be attained by allowing multiple technologies to work together for robust solutions.

One promising example is the Sahara Forest Project, a project that is looking for opportunities to combine the right solar thermal and seawater greenhouses.

The thermal solar power plant pumps water to the greenhouse, and in return clean water is made for cleaning and cooling. Waste heat from the process can also contribute to desalting. There are plans to surround the greenhouses with hardy outdoor cultivation to take advantage of the humid microclimate created. The incoming salt water can also be fed in via cultivation ponds, where microalgae and their residues can provide biomass as a fertilizer.

The Norway-based Bellona Foundation is supporting the project. Pilot plants have been set up in Jordan and Qatar, in collaboration with Norwegian and Jordanian authorities, and fertilizer companies Yara and Qafco.

DESERTEC is another visionary project that is seeking ways to produce renewable energy in desert areas. The idea is to provide solar power from the Sahara for example to Europe via high voltage power cables laid under the Mediterranean.

Providing the world's growing population with food, clean water and renewable energy is perhaps the biggest challenge the world faces. When renewable energy is used to desalinate water and vegetate the desert, critical problems such as water scarcity, dependence on fossil fuels and food security, can maybe be solved. There are many problems to solve along the way, but the future of the desert looks brighter.



2012 has been a year of blistering heat, wildfires, and drought throughout much of the United States. With the specter of climate change looming, experts believe such extreme weather events will only become more common. As temperatures increase and population grows, demands on the already strained power supply will lead to increased occurrences of brownouts and rolling blackouts.

With fossil fuels having fallen out of favor, nuclear increasingly viewed as risky, and renewable energy nowhere near the point at which it can take the place of coal, one has to wonder how the growing need for power will be met. In the minds of many, energy efficiency is a vital strategy to mitigate energy-related demand and curb the impact the rising cost of electricity has on bottom lines everywhere.

In buildings, which represent 40 percent of our total energy requirements, automation and control technologies play a key role in efforts to reduce energy consumption. Energy-harvesting, wireless systems, which require no maintenance and provide a high degree of flexibility in system planning and implementation, are becoming increasingly popular in building monitoring and control.

Cooling the Economic Engine of Growth

Nearly all of the world's booming cities are located in the tropics. These hot and humid areas will be home to nearly 1 billion new power-consuming individuals by 2025. As population grows and temperatures rise, demand for air conditioning will grow substantially.

Scientific studies show that health improves and productivity increases significantly with cooling of indoor spaces in hot weather.

"It is true that air conditioning made the economy happen for Singapore and is doing so for other emerging economies," Pawel Wargocki, an expert on indoor-air quality for the International Center for Indoor Environment and Energy at the Technical University of Denmark, said.

In India, air conditioning has become a cultural priority, sending scientists scrambling to invent more-efficient equipment and better coolant gases to minimize energy use and planet-warming emissions. This demonstrates the beneficial relationship air conditioning can have with economic development.

Energy-Harvesting, Wireless Automation

Batteryless systems becoming increasingly popular in building monitoring and control

Oct. 3, 2012

CORY VANDERPOOL, EnOcean Alliance Inc., San Ramon, Calif.

The Cost to Cool

Research shows an alarming trend with respect to air-conditioning use. In 2007, for instance, only 11 percent of households in Brazil and 2 percent in India had air conditioning, compared with 87 percent in the United States. These data reflect considerable latent demand, with current energy consumption not yet reflecting what will happen when less-developed countries have more money and more people who can afford luxuries such as air conditioning.

Optimizing Cooling With Energy-Harvesting, Wireless Automation

Used in the control of HVAC and lighting, energy-harvesting, wireless technologies can be expected to save 20 to 50 percent on energy. For example, if a sensor detects that a room no longer is occupied, lights can be switched off and the HVAC systems controlled automatically, saving an average of 30 percent compared with a non-automated system. Alternatively, if enough natural sunlight is entering a room, lights can be programmed to dim or switch off automatically.

To appreciate the broad utility of wireless sensors, consider that up to 50 percent of the energy used to heat or cool a space is wasted through open windows with the HVAC running at full power. In a typical building, hotels in particular, a sensor can be used to detect an open window or balcony door. The HVAC unit then can be signaled to reduce heating or cooling or shut off until the window or door is closed. Individual room or area temperature monitoring and control (Figure 1) can reduce HVAC energy consumption by up to 30 percent alone.

A Standard for Green Buildings

Devices that are self-powered, meaning do not require wires or batteries, collect energy from their surroundings, including from motion, indoor light, and temperature differentials. This not only eliminates complicated and costly cabling, it ensures virtually maintenance-free operation.

The EnOcean protocol, which recently became an international standard, supports self-powered devices. It is the only standard designed to support very-low-power devices and energy-harvesting applications. EnOcean-based products use little power by delivering very short data packets and utilizing frequency bands with excellent signal propagation and minimal interference.

The EnOcean standard utilizes the less-crowded 868-MHz and 315-MHz frequency bands, making it suitable for use worldwide. This provides a safeguard against other wireless transmitters, while offering fast system response and eliminating data collisions. The range of EnOcean wireless sensors is about 900 ft in open spaces, such as warehouses, and up to 90 ft inside of buildings. Signals can be extended using repeaters.

Intelligent Interconnection

With EnOcean technology, an intelligent system can be realized by interconnecting automated thermostats, window contacts, humidity sensors, occupancy sensors, carbon-dioxide (CO₂) sensors, and more. For example, a room controller receives information related to temperature, humidity, window position, or CO₂ from sensors and controls the opening and closing of valve actuators for radiators. At the same time, the room controller sends information to an energy controller. Demand is calculated as a function of outdoor temperature and flow temperature to control energy generation (Figure 2).

The more complex a cooling installation, the greater the amount of information needed to control it. The utilization of single-room controllers with energy-harvesting, wireless technology and self-powered, wireless sensors can reduce significantly, if not optimize, the energy needs of a modern cooling plant.

The Role of Building Codes

The move toward energy-wise code modification began in California with the adoption of Title 24, a set of standards with energy-saving requirements for walls, roofs, windows, insulation, lighting, and HVAC systems. The introduction of Title 24 has saved Californians billions of dollars in electrical and natural-gas expenses. Although per-capita electricity use in the United States has increased by nearly 50 percent since the mid-1970s, California essentially has maintained its per-capita electricity use.

Other states have taken aggressive approaches to developing building codes. Hawaii, for instance, recently passed legislation requiring a method of adjusting thermostat setpoints and turning off permanently installed light fixtures and outlets powering portable light fixtures and entertainment devices when a "sleeping unit" in a new hotel or resort is unoccupied. To meet this requirement, hotel owners can utilize a key-card switch or an occupancy sensor.

Energy-Related Incentives

Let's say you want to retrofit your building with energy-efficient HVAC or lighting, but funding is elusive. Fortunately, there are strategies to pay for energy-efficiency projects by significantly lowering your tax burden. Some companies help property and facility owners leverage tax incentives to implement energy systems.

One tax benefit that can be applied to energy-efficient construction and improvements is found in Section 179D of the Energy Policy Act of 2005. Also known as the Commercial Buildings Tax Deduction, 179D includes full and partial tax deductions for investments in commercial buildings intended to increase the efficiency of energy-consuming functions. The deduction available is up to 60 cents per square foot each for lighting, HVAC, and building envelope. These deductions are applicable to buildings built or retrofitted after Dec. 31, 2005. To qualify for the deduction, a taxpayer must receive third-party energy-efficiency certification.

The Future of Wireless Is Now

Wireless, batteryless devices provide improved flexibility, enhanced occupant comfort, and reduced energy consumption and are virtually maintenance-free.

Companies utilizing EnOcean technology are driving innovative solutions in HVAC and lighting control. One, for instance, combines wired, wireless, and Web technologies to provide flexible options for interfacing EnOcean and BACnet, as well as the ability to control lighting and HVAC with one controller. Another introduced the first solar-powered, energy-harvesting-based diffuser. Collectively, the EnOcean ecosystem continues to push the limits of wireless technology, proving that energy-management devices can operate efficiently and effectively, even without batteries.

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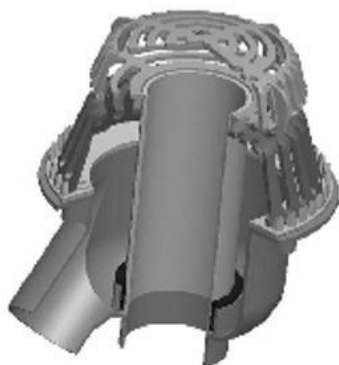
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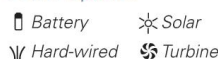
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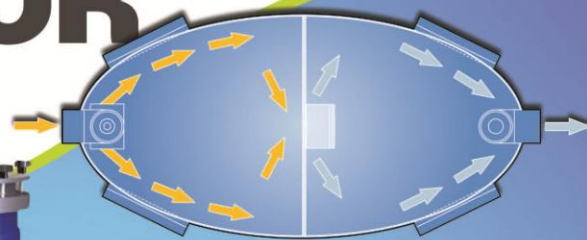
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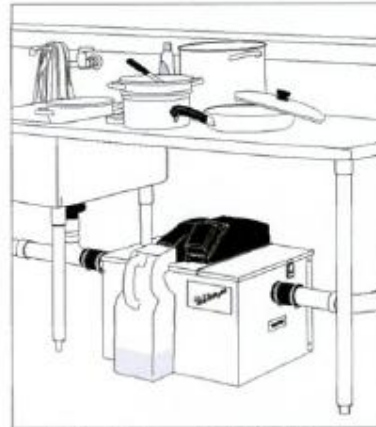
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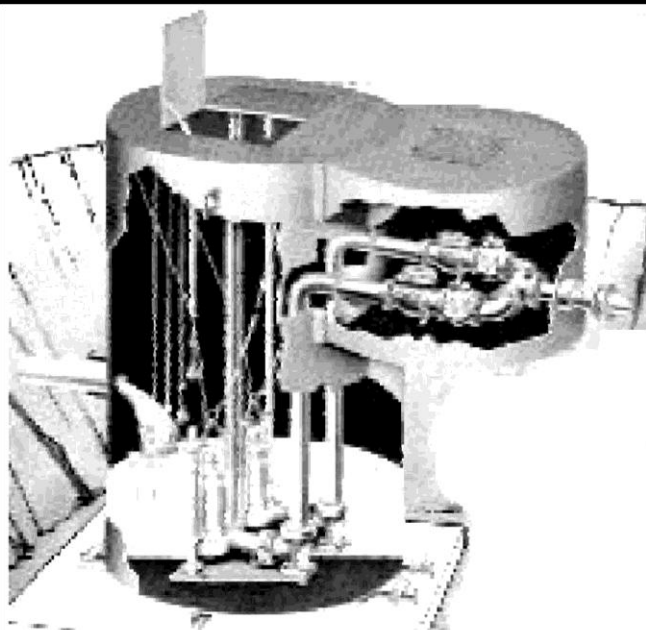
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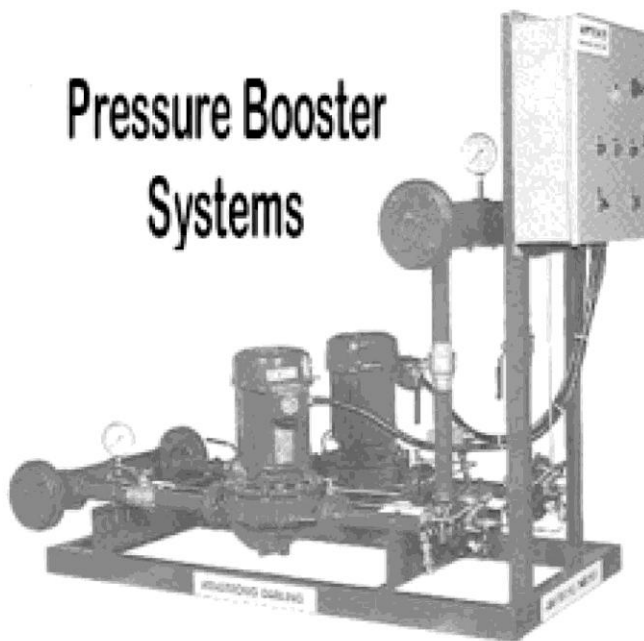
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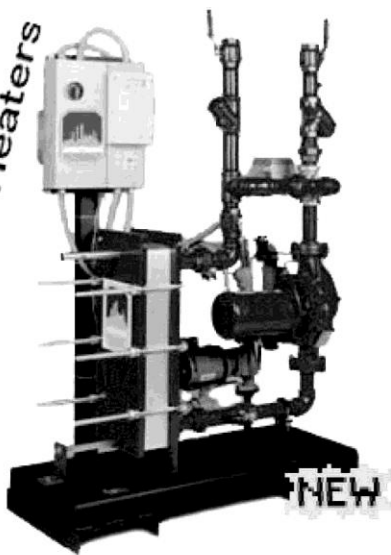
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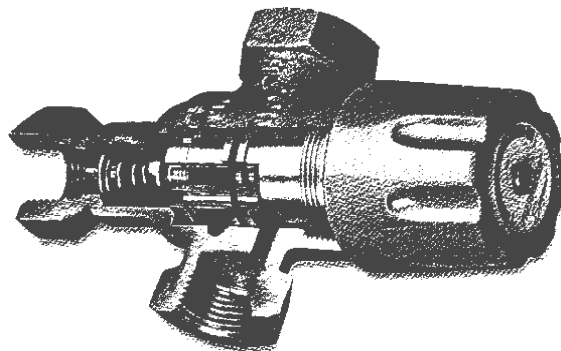


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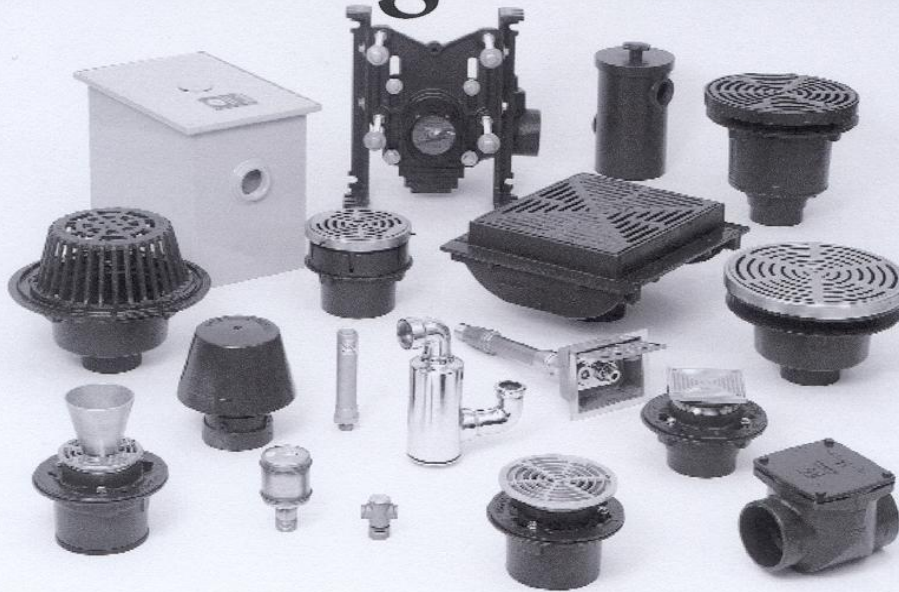
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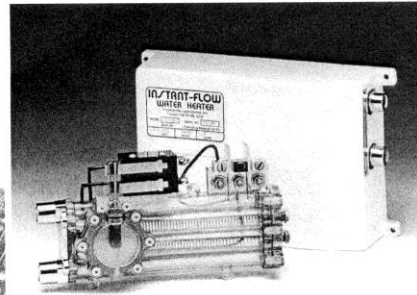
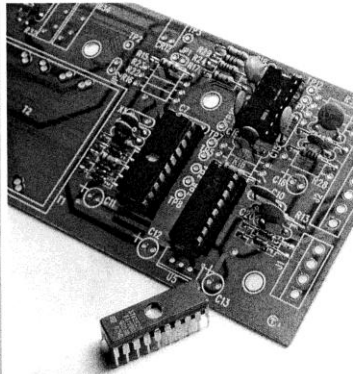
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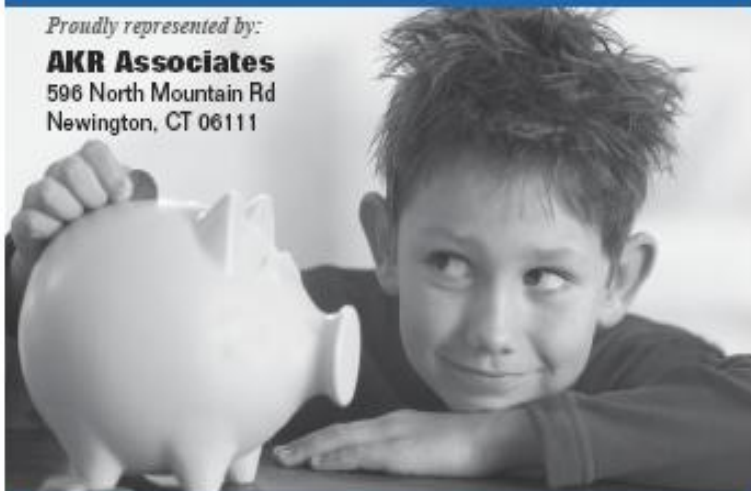
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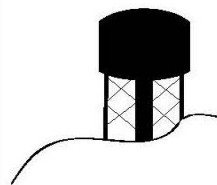
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	Brasscraft is a leader in innovative plumbing products with manufacturing and headquarters in the US. They are a leading manufacturer of water supplies and gas plumbing products for new construction and repair and remodel markets. (CT, VT & Western Mass Only)
	Clear, pure flowing water. The focal point of Dornbracht's product design work. All fittings and accessories that bear its name place a clear and unmistakable emphasis on function. Their materials and finish are of the highest quality and their pioneering design is constantly being refined.
	Duravit develops sanitary ceramics, bathroom furniture, shower trays and bathtubs, whirl and wellness systems, shower-toilets, kitchen sinks and accessories.
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	Hydro Systems, Inc., founded in 1978, is based on the principle of providing high-quality whirlpools, airtubs, shower pans, as well as specialty products at affordable prices. Integrity and quality are built into each one of our bath systems as a foundation for long lasting products and customer satisfaction.
	Inspired by the french drain, Infinity Drain is a linear drain system. Its architectural structure allows for limitless possibilities.
	Headquartered in Racine, Wisconsin, InSinkErator, a division of Emerson (NYSE: EMR) is the world's largest manufacturer of food waste disposers and instant hot water dispensers for home and commercial use. (CT, VT & Western Mass Only)
	Founded in 1944, Franklin Electric has grown from a small motor manufacturing company into a leading global provider of complete water systems and fueling systems. Franklin Electric's principal markets include clean water systems, water transfer and grey water systems, and fueling systems. (Not in NY)
	Raychem is the world leader in self-regulating, heating cable technology with innovative products for industrial, commercial and residential applications. Emerson Swan represents the Raychem family of products for freeze-protection, flow maintenance and domestic hot water applications to the Commercial Plumbing and Heating industry.
	Tower manufactures, fabricates and installs premium solid surfacing, natural stone, quartz surfacing, standard and custom shower bases and a variety of cultured products, including marble, onyx, granite and alabaster.
	For 35+ years Water Control Corp has been helping engineers with complex water applications. Commercial softeners, rainwater recovery / reuse systems, RO packages and multi-stage filtration. Look to Water Control for cost-effective packaged solutions.
	Watts Industries manufactures a complete line of potable water piping for residential and commercial use. All Watts WaterPEX® tubing is manufactured in accordance with American Society for Testing and Materials (ASTM) F-876 and F-877 to SDR-9 dimensional standards. It's listed by the National Sanitation Foundation to NSF Standards 14 and 61 for use in potable water systems.



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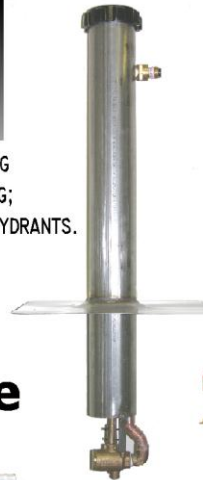
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ASPE Connecticut Chapter Technical Program 2013-2014

September 25, 2013	Topic: CPVC Speaker: Mark Lemire Tabletop:
October 23, 2013	Topic: Thermostatic Mixing Valves Speaker: Russ Smith, Yost Tabletop: Yost Associates
November 20, 2013	Topic: Gas Booster Speaker: Ernest Gallo Tabletop:
December 11, 2013	Topic: CHRISTMAS PARTY Speaker: Tabletop:
January 22, 2014	Topic: TBD Speaker: Tabletop:
February 26, 2014	Topic: Quality and Pathogen Prevention Speaker: Viega Tabletop: Kyle Tasse, Viega products
March 2014	Topic: ASPE/ASHRAE Speaker: Tabletop:
April 23, 2014	Topic: Glass Acid Waste and Vent System Speaker: Steven Leek Tabletop: Jeremy Ross K Ross Company
May 28, 2014	Topic: Rainwater Harvesting Technologies and Design Speaker: Tabletop: Mike Flannery Engineered Product Sales

All Meeting to be held at Baci Grill unless noted
Proposed Program topics subject to change!