



Next Meeting

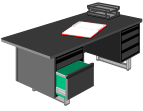
THURSDAY, April 21
JOINT MEETING With GBPCA
LOMBARDO'S, Randolph, MA

MARK YOUR CALENDARS!!!

June Social - JUNE 16 6-8pm
NE Aquarium - West Wing Gallery

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President's Report

Thank you Jack Accardi, Great technical session on gas pressure regulators and flow control valve. A lot of info about regulators and control valves in a short time. Two things I came away with is there are two types of control valves Direct Operated and Pilot Operated. The second thing is sizing. Like a lot of valves if they are too big or too small they don't work.

Our CPD review class is well attended. We have 22 brave souls looking to increase their knowledge of plumbing systems. Thank you to Derek Sylvia for getting our CPD review class off the ground and making it a success. Thank you to all our volunteer instructors:

Blair Chamberlain, Ken Charest, Rich Dean, Frank Teebagy, Bill Brady, Kevin Lally, Jim Craig, Jim Polando and Bill Jerome.

We are very lucky here in Boston to have so many knowledgeable and generous engineers and designers willing to help teach this class.

Region One meeting is June 3 & 4th. This is where all the chapters from Region One meet and discuss what's going on in their chapter over the past year and their plans for next year. We also discuss what's going on with ASPE National.

This season will be over before you know it. If you have ideas for topics for next year please send them to Ed Nadeau.

Code question below:

Polyvinyl Chloride (PVC) Schedule 40 Plastic Pipe and Fittings are limited to drains, waste and vent piping that serve the sanitary or storm drainage systems in the following building types residential dwelling, assisted living facilities, hotel, motel, inn, condominium and similar building that are no greater than ten stories in height.

Chlorinated Polyvinyl Chloride (CPVC) is limited to for hot and cold water located in dwelling portion of residential dwelling, multi family, hotel, motel, inn, condominium and similar building six stories or 60 feet in height.

PEX tubing is used for hot and cold water distribution in residential dwelling/buildings up to and including three stories in height.

The question to our engineers and designers is should these restrictions be changed, expanded, eliminated or remain as is? Please let us know.

See you all Thursday April 27th at Lombardo's Restaurant in Randolph.

Laurence D. Johnston CPD, President, Boston Chapter ASPE

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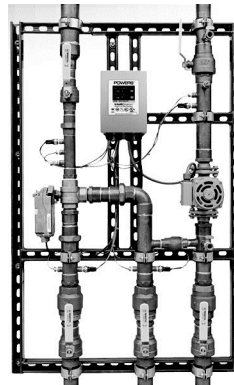
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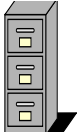
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Technical Report

March Meeting Wrap up

If you were not able to attend the March meeting you missed out on some good stuff! This past month we welcomed Mr. Jack Accardi Jr. from Accardi Companies, LLC to our chapter's monthly meeting. Jack talked about the fundamentals of Gas Pressure Regulators & Safety Shutoff. Below is a list of some of the key points that Jack covered during his presentation.

Key points on Gas Regulators:

- Gas pressure regulators are required to deliver a steady flow pressure to downstream gas fired appliances.
- They are typically self-contained or electrically actuated, diaphragm operated with adjustable spring outlet pressure.
- Vent connection allows evacuation of the regulator case during diaphragm failure.
- A regulator is a pressure drop device, meaning it must have a significant differential pressure drop across it in order to operate effectively.
- When sizing a regulator, if it is sized too small it creates too much restriction and limits the flow. If it is sized too large it creates droop; which is when the drop in the outlet pressure side is below the original set point. Droop can also be caused by significant changes in the inlet pressure.
- Two main types of gas pressure regulators are appliance and line pressure regulators.

Appliance regulators

- * Need to conform to the requirements of NFPA 54 and ANSI Z223.1 by requiring a gas pressure regulator on all gas fired appliances.
- * Do not lock up the pressure on a reduction of flow.
- * Can only be used where downstream controls or devices can operate safely.
- * Cannot be utilized as a line regulator.
- * Certified by CSA with a gas fired appliance to a maximum of 14" w.c. (1/2 psi) only.

Line regulators

- * Are utilized when downstream controls cannot operate safely at line pressure.
 - * Must be lockup design in compliance with ANSI Z21.80 for 2, 5, or 10 psi applications.
 - * Installed upstream and added to appliance regulators when maximum pressure ratings of a certified appliance have been exceeded.
 - * Per ANSI requirement for greater than 2 psi inlet pressure a certified Over Pressure Device (OPD) or internal or external relief valve design are required.
- When installing regulators isolation valves and pressure gauges, they should be installed upstream and downstream of the regulator.
 - There should be a minimum of 7-10 pipe diameters of straight run pipe downstream of regulator.
 - Can be installed outdoors or indoors.
 - Regulators can be installed in the horizontal or vertical position pending on manufacturer.
 - Local codes typically dictate allowable height above grade and maximum distance from usable windows and doors for gas vents.
 - The gas vent is sized to eliminate potential for back pressure. The typical rule of thumb is one pipe diameter above the vent tapping size increasing every 100'.
 - A vent limiter is a calibrated orifice with integral check valve.
 - A vent limiter can only be installed on a regulator that is certified to ANSI Z21.80.
 - Only intended to be used indoor applications.
 - Vent limiter are only allowed by local codes.

Key points on Gas Safety Shutoff Valves:

- Designed to be fail safe in the automatic shutoff of flow in fuel lines.
- Can be electrically or mechanically operated.
- Electrical safety valves can be solenoid activated, motorized automatic reset, or motorized manual reset.

April Technical Topic and Meeting

The April technical topic will be a joint meeting with the Greater Boston Plumbing Contractors Associations (GBPCA). This meeting will be held on the third Thursday of the month April 21 at 5:30pm located at Lombardo's Restaurant in Randolph. The session will focus on Updates and discussions with the Plumbing Board; with Board Chairman Paul Kennedy and Executive Secretary Wayne Thomas.

Just a few reminders:

The May monthly meeting will be held on the second Tuesday of the month (5/10/16) located at The Chateau in North Andover. The technical topic will be on Solvents.

The June Social will be held on Thursday June 16, 2016 from 6 to 8 at the New England Aquarium. For more information please go to our website. <http://www.aspebostonchapter.org/>

Best Regards, Ed Nadeau, VP Technical, ASPE Boston Chapter



Membership News

New Boston Chapter Members

The Boston Chapter ASPE would like to welcome the following new members:

Nick Giakoumidis	C3	Full Member	Boston, MA
Don Piatt G.E.	Futura Sales	Affiliate Member	Framingham, MA
Anne Kubota	BR+A Engineers	Full Member	Boston, MA
Sonia Barrantes P.E.	Ripcord Engineering	Associate Member	Portland, ME

Pending Drop List

The following members haven't renewed their membership as of 3/4/16 and are in danger of being dropped from the Society roster. Please renew your membership ASAP if you haven't done so already.

- Frederick S. Neth EIT
- Shaun Gallano
- Sean Kelly
- Gary G. Serpa
- Shaher N. Boustany
- Eduard Doraci
- David A. Ferrari
- Lawrence F. Harding
- Andrew Holt
- Robert E. Jackson CPD

March Renewals

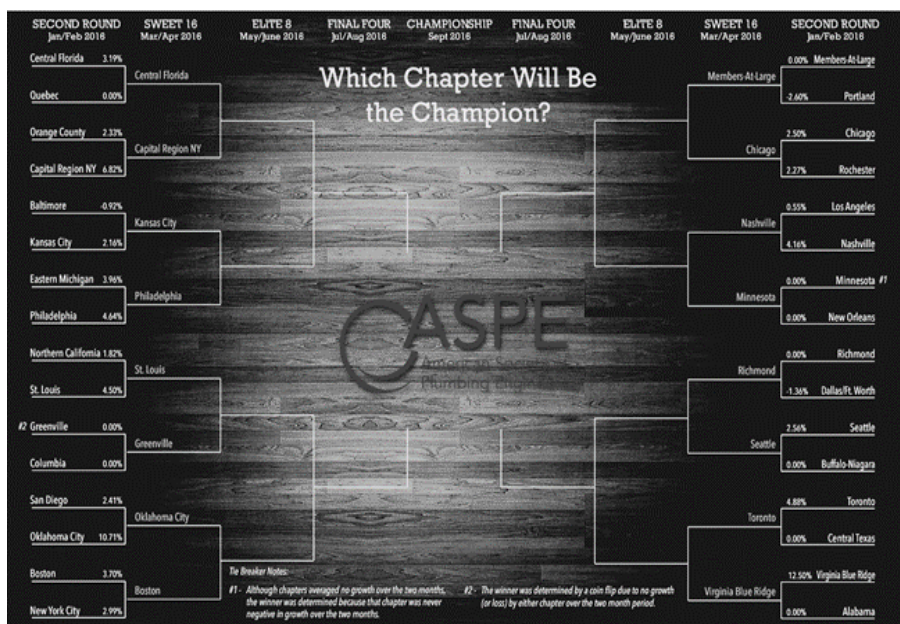
- Jonathan Boie
- Mark Brady
- Kien Diep
- John Dodge
- John P. Kitsalis P.E.
- William Lentz G.E.
- Edward Nadeau CPD
- Robert Nesselle
- Derek L. Sylvia CPD, CET
- Paul R. Taylor III, CET, CPD
- Luther Thevenin CPD
- Joseph A. Vela, Sr. CPD, FASPE
- Shane Wise CPD

April Renewals

- Gilbert Castera P.E.
- Joseph Roy Cinco
- Robert E. Handschiegl Jr.
- Michael F. Kessler P.E, LEED AP, CPD
- Philippe Lauture
- John O'Neill P.E
- Samoundisvary Oumabady
- Andrew Powers
- Patrick Shea
- Frederick M. Thomas
- Robert Wilkinson P.E.
- Gregory B. Wozny P.E.

Membership Bracket Challenge Update

Speaking of new members, the Boston Chapter had six new members last month but more importantly, we had our existing members renew their memberships in a timely fashion and fewer members were dropped from the Boston Chapter roster. That meant we saw a 3.7% increase in our membership the past two months. As you may recall, we were going head to head against the New York City chapter in second round of the Membership Bracket Challenge. I am happy to report that the Boston Chapter beat then top seeded NYC Chapter's 2.99% increase over the same two-month period. As it stands, The Boston Chapter has moved on to the third round and we are matched up against the Oklahoma City Chapter which won with a 10.71% increase last round. It will be difficult to match that percentage gain but we will certainly try and give it our best effort. We could use your help. If you are due to renew your membership this month, please do so right away. If you know someone who isn't currently a member, get them to join (or rejoin) It is only \$100 if they join. We will pay the remainder of the dues over \$100.



ASPE Memberships Pins

The 2016-2017 ASPE Membership pins are here and available to be picked up at the upcoming monthly meetings as well as the June Social being held at the New England Aquarium. If you would like your membership pin please attend the monthly meeting. If you aren't able to attend a monthly meeting, please let me know and I will either mail it to you or give you yours the next time I am in your office.

By John Callahan, CPD, V. P. Membership, Boston Chapter ASPE



Legislative Report

Heat Trace Cable vs. Hot Water Temperature Maintenance Cable

If you've ever wondered what the difference between Heat Trace cables and Hot Water Temperature Maintenance cables was, you were not alone. The following descriptions will help you understand the difference between the two systems.

Heat Trace Cable

When water piping is installed in an unheated area, adding just insulation on the pipe will not keep it from freezing. Applying Heat Trace cable on the pipe will protect the piping from freezing. The heat trace cable can be used on piping at cooling towers, parking garages, coolers, freezers and fire suppression system. Always check with the heat trace manufacturer to make sure the cable you specify is applicable for the system it's being used for.

The most common type of heat trace is the self-regulating heating cables. When the temperature changes in the water piping the self-regulating heating cables automatically adjust their power output to regulate the temperature back to its original set point.

Here's how it works: When the water temperature in the pipe drops, the electrical current that passes through the conductive polymer core starts to generate heat between the cable's conductors. The lower the water temperature drops, the more heat will be produced as the number of electrical paths through the core increases.

Hot Water Temperature Maintenance Cable

Hot Water Temperature Maintenance cables are used on hot water piping to maintain its designed temperature when it is desirable to the tap without long waits or wasting water. Some manufacturers advertise this system as an alternative to a recirculation system. (Check with your local code official for their approval before using this alternative method)

The Hot Water Temperature Maintenance cable keeps the water temperature constant throughout the entire length of the supply pipe. This can be installed from the main distribution up to the fixture for immediate hot water without wasting water waiting for the desired temperature.

Electronic controllers are used with the Heat Trace systems and the Hot Water Temperature Maintenance systems to monitor and/or control the desired temperature maintenance of the pipes. The temperature set point on most controller systems can be programmed on a 24/7 schedule through the building management system. The Heat Trace systems and the Hot Water Temperature Maintenance systems require electrical power connections. The Plumbing/FP Engineer must coordinate power requirements with the Electrical Engineer. It is important to note that pipe insulation is required with either type for it to work properly.

Luther Thevenin, CPD, VP Legislative

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Next Meeting

WEDNESDAY, APRIL 21, 2016

LOMBARDOS, Randolph, MA

43 Scanlon Drive

MAIN PROGRAM

**Updates & Discussion
With the Plumbing Board**

SPEAKER

**Board Chairman Paul Kennedy &
Executive Secretary Wayne Thomas.**

PROGRAM SCHEDULE

Social Hour	5:00 – 6:00
Dinner	6:00 – 6:45
Chapter Business	6:45 – 7:00
Speaker / Technical Session	7:00 – 8:30

MENU

CHOICE OF: Lemon Thyme Chicken,
N.E. Baked Scrod or Vegetable Risotto

MEETING RESERVATIONS

\$20.00 ONLINE Reservation

(Please use the electronic invitation sent to you)

\$35.00 W/O Reservation

Retired & Currently Unemployed Members Free

Please reserve by Friday, April 1st , 2016



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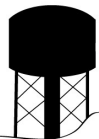
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This was very cool to see just a few things that can be done with Revit. To design a project using these tools is a big commitment by your company. First you have to create all the custom families, tags and schedules. Second for this to work every fixture and every piece of equipment needs to be connected to the piping systems.

I personally found this overwhelming. Even if you had every family you need for a project it seems to actually connect every fixture and piece of equipment to their respective piping system would be a daunting task. I don't see how any project schedule would allow it to be possible.

Concept is cool but reality sets in. I don't think we are there yet.

That's my take on this class.
Laurence D. Johnston

US Legionella Guidelines & Their Impact on Plumbing System Design & Operation Seminar Presented by: Tim Keane

Summary: In the last 12 months, several new U.S. Guidelines for Legionella control in building water systems have been published. These new guidelines will have an impact on plumbing system designers and equipment manufacturers. More importantly, these guidelines will create a significant increase in awareness in general contractors and building owners who will now begin to ask for design criteria to minimize the risk of Legionella colonization. Those guidelines and their impact on the plumbing community were reviewed during this technical seminar.

1. Common fixtures that contribute to the spread of Legionella bacteria
 - a) Cooling Towers
 - b) Showers
 - c) Faucets and aerators
 - d) Respiratory Therapy Equipment
 - e) Room air humidifiers (cool mist)
 - f) Decorative fountains
 - g) Ice machines
 - h) Whirlpools
2. Ice machines treatment systems
 - a) Coarse pre-filter
 - b) Carbon block cartridge
 - c) Phosphate cartridge
 - i. Bad choice because the phosphate becomes a food source for the Legionella bacteria
 - ii. Don't add phosphate to treat the water
3. Legionella Facts
 - a) Legionella disease is a type of pneumonia that fouls the bottom part of the lungs
 - b) There are 25,000 cases reported annually
 - c) There are 4,000 fatalities annually from Legionella Disease
 - d) The average hospital stay costs per case is \$34,000
 - e) There has been a 219% increase of Legionella disease in the US from 2000 - 2009
 - f) There have been an estimated 120,000 deaths since 1976
4. Standards and Recommendations
 - a) OSHA Recommends maintaining a minimum of 140F domestic hot water storage with a delivery temperature of at least 122F at the faucet.
 - b) ASHRAE states that 77F to 108F is the temperature range that promotes the most favorable growth conditions for Legionella bacteria
 - i. Less than 72F results in no bacterial growth
 - ii. Between 72F and 86F allows for slow growth of bacteria
 - iii. Between 86F and 110F results in conditions suitable for rapid growth of Legionella bacteria
 - c) ASME 2002 recommends a minimum temperature of 122F (or higher) at faucets

By John Callahan

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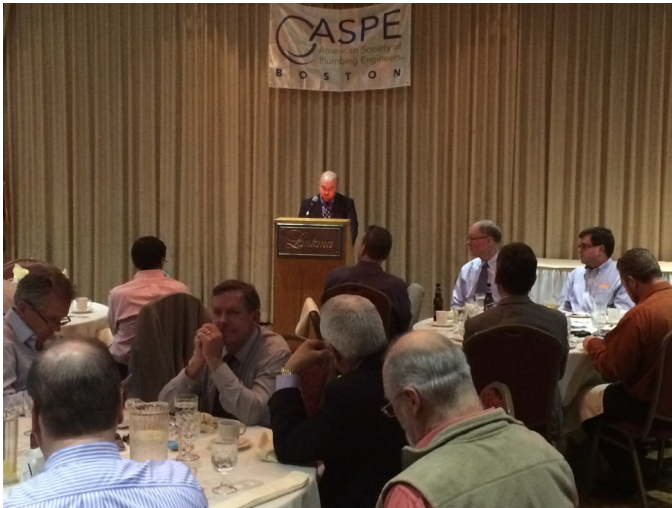


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Photos from the March Meeting



Ed Nadeau (VP Technical) introduces Jack Accardi Jr. From Accardi Companies, LLC who was our guest speaker at the March meeting on Gas Pressure Regulators.



Jack Accardi discusses the specific requirements of the ANSI Z21.80 regulator standard with the 45 chapter members in attendance.

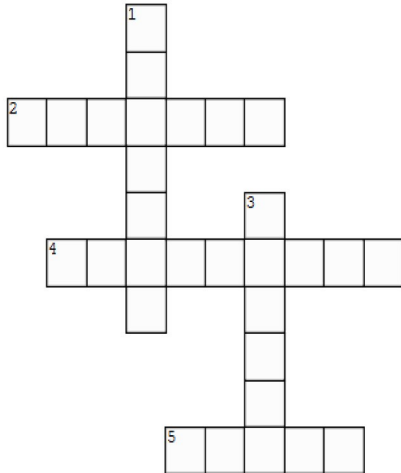
CPD Exam Review Class



The Boston Chapter is hosting a four week review class for those chapter members interested in taking the upcoming CPD Exam. The class is being held at the BSA Space on Congress Street, Boston. Pictured are the attendees and instructors listening intently as Derek Silvia reviews some of the exam content.

ASPE CROSSWORD PUZZLE

Apr. 2016



Across

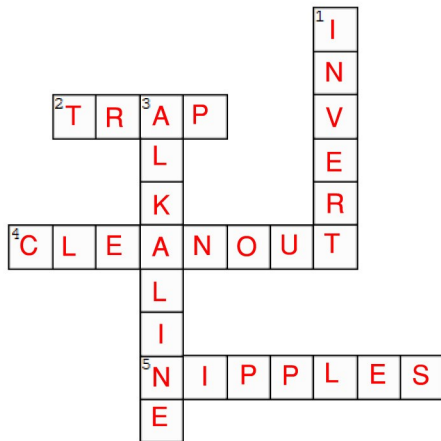
- 2. A sprinkler designed to be installed in such a way that the water stream is directed downward against the deflector
- 4. A recessed sprinkler with cover plate
- 5. A pipe that rises vertically and supplies a single sprinkler

Down

- 1. An exterior valved connection to a water supply system that provides hose connections
- 3. A device or assembly used to support the gravity load of the system piping

Answers will be posted in the May. 2016 news letter

Answers from Mar. 2016 crossword



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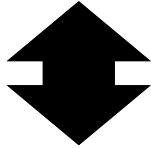
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