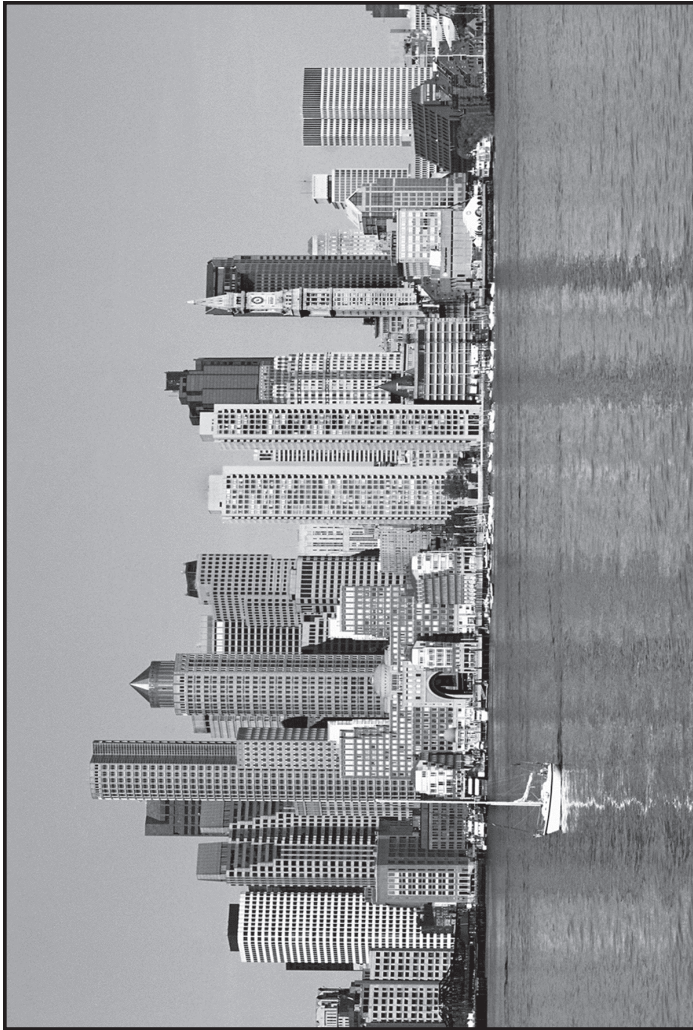




THE AMERICAN SOCIETY OF PLUMBING ENGINEERS

# ASPENEWS

1973 - THE BOSTON CHAPTER - 2012  
A.S.P.E. - P.O. Box 111, East Walpole, MA 02032 - Vol. 39, Issue 5



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## Next Meeting

**Tuesday, January 10, 2012**

*The Lantana, Randolph, MA*

### MAIN PROGRAM

**Dedicated Drinking Water Systems  
Maximum Energy Efficiency, Security,  
& Quality Control**

**Presented By:**

*Mr. George Hansel*

*From Filtrine Manufacturing Company*

### PROGRAM SCHEDULE

Plumbing 101 / Social Hour	5:00 – 6:00
Dinner	6:00 – 7:00
Chapter Business	6:45 – 7:00
Speaker / Technical Session	7:00 – 8:30

### MENU

Soup, French Cut Double Pork Chop  
& Chocolate Layer Cake

### MEETING RESERVATIONS

**\$30.00 Reservation**

**\$40.00 W/O Reservation**

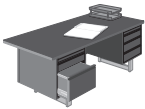
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## ***President's Report***

This past December we had a joint meeting with the Boston Chapter of ASHRAE. The topic was Solar Thermal Water Heating and was presented by Mr. Ross Trethewey of RST Thermal. The presentation was completely engineered based and, in my opinion outstanding. Ross covered many aspects of selecting and sizing solar thermal system. The overall attendance at this meeting was approximately 90 persons. ASPE had in attendance 22 people. I should point out that historically when this joint meeting is held away our normal meeting place the numbers are low.

There have been many things happening since the Product show. One of the major items is the Plumbing 101 Lecture Series. We have slightly tweaked the presentation but for the most part are continuing on the format of what we had tried back in September and October. The goal of these lectures is to provide fundamental insight to plumbing systems and design. The secondary goal is to also foster appeal to a new generation of ASPE members. I ask the Principals and Plumbing Department heads of various engineering firms within the Boston community to support your employees. The benefit to you is a much more technical savvy design engineer.

### **Plumbing 101 Lecture Series:**

This lecture series will continue in January 2012. Rick Neth, EIT, CPD & Manny Garcia, PE are scheduled to present. Please remember that engineer attendees participating in the lecture will also be the guest of the chapter at the dinner meeting. The time of the lectures start at **5:00pm** sharp.

The topic for January will be *Storm Water Systems & Design Fundamentals*.

The Education Committee is always looking for people to lend a hand. If you know of a topic or can assist in the lectures please feel free to contact our Education Chairman Rick Neth (nethf@pbworld.com).

### **Chapter Meetings:**

The next Chapter Meeting will be on January 10<sup>th</sup>, 2012 at the Lantana in Randolph, MA. Please remember to sing in and get you CEU cards. The chapter meeting are always held the second Tuesday of the month. Special meetings will always be announced if required.

### **Conclusion:**

I hope to see you at our upcoming meetings. These meetings cannot be a success without your involvement. So if you have not already made your New Years Resolutions please consider attending a few of the meetings this year.

In closing I want to wish you a Happy New Year!

**Sincerely, Rich Dean, CPD, President, Boston Chapter ASPE**

Fellow ASPE Members,

I am the current President of the newly formed Long Island Chapter of ASPE. I have been an ASPE member for over 10 years. It has been a long and busy 2 years forming this new chapter, but the rewards are endless. Myself and other founding members greatly value the benefits of this society and the local chapters. Now it is the time for members to get involved in the society on the national level. I am on the Nominating Committee and seeking candidates for ASPE board positions. The society belongs to you and it is up to you to help direct the future of the society. If anyone is interested in running for, or even curious about, a board position please call me at: 631-312-6486 or email to: [aspeliorg@gmail.com](mailto:aspeliorg@gmail.com).

Thank you,  
Paul Freeman, PE, LEED AP  
President, Long Island Chapter of ASPE

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## Technical Report

**Dedicated Drinking Water Systems  
Maximum Energy Efficiency, Security, & Quality Control**

I hope you all are having a wonderful Holiday, Hanukah and a Merry Christmas with your families. This is always a great time to renew acquaintances, friendships and family ties, so please join us for a very interesting technical topic to kick off the New Year at our January Chapter Meeting. Our meeting will be held on January 10, 2012, back home at Lantana's in Randolph MA.

As designers and engineers for new building projects, you are confronted with many decisions concerning the cost and value of the various Plumbing systems. This technical presentation will show you that drinking water quality within a building has to be addressed with as much (if not more) concern as air quality. Our topic will cover the advantages of dedicated drinking water systems, which provide an economical, flexible, and efficient option of serving safe drinking water for your project.

Our speaker will be George Hansel of the Filtrine Manufacturing Company. George represents the fifth generation of his family to be involved in the drinking water industry. Since 1901, the Hansel family company, Filtrine, has contributed to many "industry firsts" and has developed a reputation as the engineer's choice for drinking water filtration, cooling, and dispensing around the world. George Hansel currently serves as Outside Sales Manager for Filtrine's Drinking Water Division.

### Program Outline:

- Drinking Water Overview
- Main Considerations and Concerns
- Drinking Water System Requirements topics that will be covered: Particulate Filtration, Activated Carbon Block Purifiers, Lead Removal, UV Sterilization, Reverse Osmosis, Optimal Filtration for Drinking Water, "Storage Type" Evaporators vs. Instantaneous, Circulating Chilled Water To Every Outlet, History of Central Systems, Modern Applications & Product Innovation, Configurations and Sizing Methods. Also we will cover Filling Stations, "The drinking fountain of the future", Filling Station Options, Codes and Regulations (ADA, "Low" Lead in compliance with CA-AB1953), Retrofit options and Making every drinking fountain a Filling Station.
- Conclusions: Why dedicated drinking water vs. Bottled Water or Point of Use along with Value Analysis.
- Summary and Q&A

I hope you will join us for the January Technical Meeting!

By Kevin W. Lally CPD, V.P. Technical, Boston Chapter ASPE

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## Legislative Report

### Elevated Gas pressure design

Before designing a project using elevated gas pressure check the Board of State Examiners of Plumbing and Gasfitters requirements. You also need to check gas utilities requirements. Anything over 14 inches of water column is considered elevated gas pressure. It does not matter if the piping system is all outside the building or even underground. All work after the meter which is the plumbers work shall comply to this requirement.

Manny had inserted a "Special Permission Gas Request Application Form" in an earlier news letter. You need a letter from the gas utility approving sufficient gas availability and elevated pressure. This is a process that requires time.

Most of the requirements are standard things you would do for the design anyway; gas loads, service and meter location, gas pipe sizes and pipe locations, and existing and proposed gas pressure. Something you may or may not normally do is provide a detailed list of the gas utilization equipment, manufacture, type of equipment, model numbers BTU input rating and Boards product approval code number. To get special permission for elevated pressure gas this is a requirement.

The equivalent length of pipe to the most remote equipment or appliance shall be provided. If you are working on an existing facility it may be extremely difficult to fulfill all the requirements. For example you may not have access to the Boards product approval code number.

In addition to all the above the gas utility may require additional documentation, such as copies of all materials (piping, fittings and valves), equipment and appliance specifications. Diagrams of the equipment gas train shall indicate that it complies with 248 CMR Section 7.00 of the Massachusetts Fuel Gas Code. The Fuel Gas Code allows for a maximum 10% pressure drop in the piping plan. The request should allow for this. If a specifically engineer piping plan uses another method be sure to include a description of the method and documentation. Plans shall show where pressure reduction takes place showing regulator valves and vents and indicate the inlet pressure and outlet pressure and gas load at that point.

While the Board allows sizing beyond 10% as per NFPA 54 2002 you may be in conflict with the utility company requirements as they may not be up to date with the Board's decision to allow designs per NFPA 54 2002. You should get the utility company requirements before you start.

If the site is in the NStar region for example and you calculate a system with elevated pressure utilizing a 2" pipe and then calculate the same system at low pressure say 12" of water column and you come up with a four inch pipe you can stop right there. Elevated pressure gas will not be considered unless the piping system would be greater than 4" at low pressure.

Gather all required documentation and a stamped signed set of drawings and send it to the gas utility company. Hopefully they send you the approval letter.

Then send a copy of the approval letter, a completely filled out Special Permission Gas Request Application Form and all the required documentation and a stamped signed set of drawings to the local Plumbing/Gas Inspector.

Third send a copy of the approval letter, a completely filled out Special Permission Gas Request Application Form and all the required documentation and a stamped signed set of drawings to the Board of State Examiners of Plumbing and Gasfitters.

Laurance D. Johnston, CPD  
Deputy V.P. Legislative, Boston Chapter ASPE



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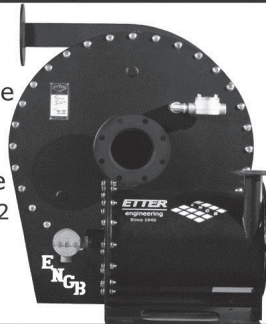
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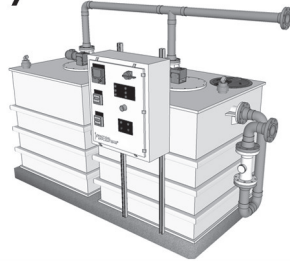
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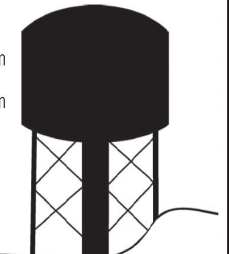
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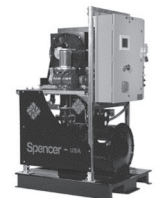
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# Membership News

## An Exclusive Boston Chapter Member Benefit For 2012

Through a special agreement with ASPE Society, the Boston Chapter has been given the opportunity to purchase a large number of technical design books, guides and publications at greatly reduced costs. What that means to you is that as a Boston Chapter member, you have the opportunity to purchase them at our monthly meetings at an incredible savings. As you will see elsewhere in this newsletter, some of these design manuals are up to 70% off ASPE member prices.

Here's the catch; these will only be available for purchase at our monthly meetings while supplies last (or until the apocalypse, whichever comes first). It's that simple. This is just one more reason to attend the monthly meeting on January 10<sup>th</sup> at The Lantana...in addition to the convenient free parking of course.

### Chapter Update

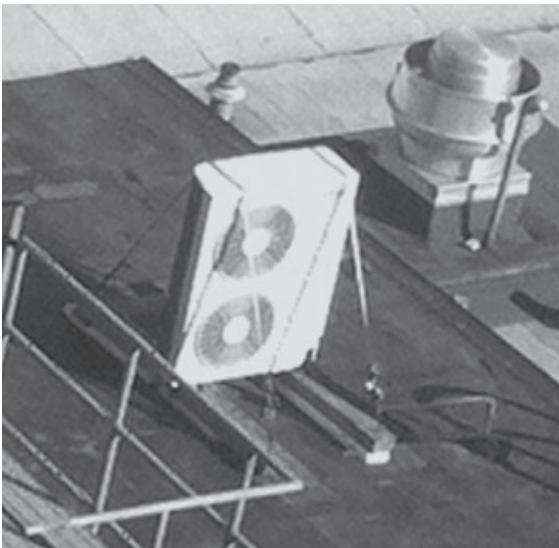
The Boston Chapter currently has 301 members as of this month, and is the second largest chapter; just 13 members fewer than the Chicago Chapter which has 314 members. We lost ground by four members this month due to late renewals. Below are the names of our chapter members whose renewals are coming up. Please check the list and see if you are due for renewal. If so, please try to get your renewal in as soon as you can and help minimize unnecessary roster changes and eliminate missing any upcoming monthly newsletters. Thanks from all of us.

#### Upcoming January Membership Renewals

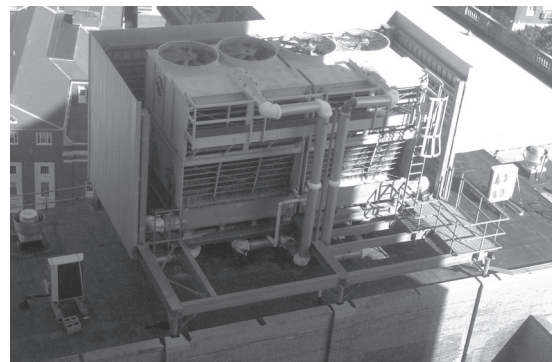
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Donald Tauer  
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#### Upcoming February Membership Renewals

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Stephen Beliveau CPD  
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Mark Chadbourne P.E.  
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What's wrong with the installation of these Providence RI rooftop units?

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

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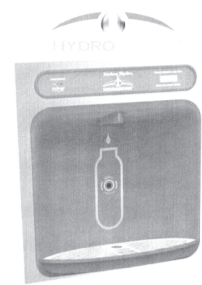
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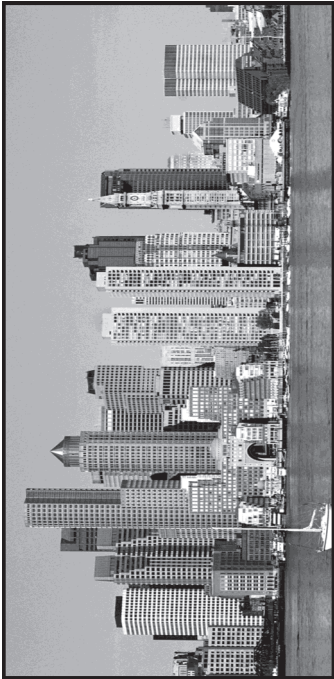
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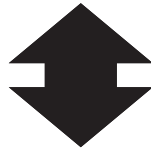
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