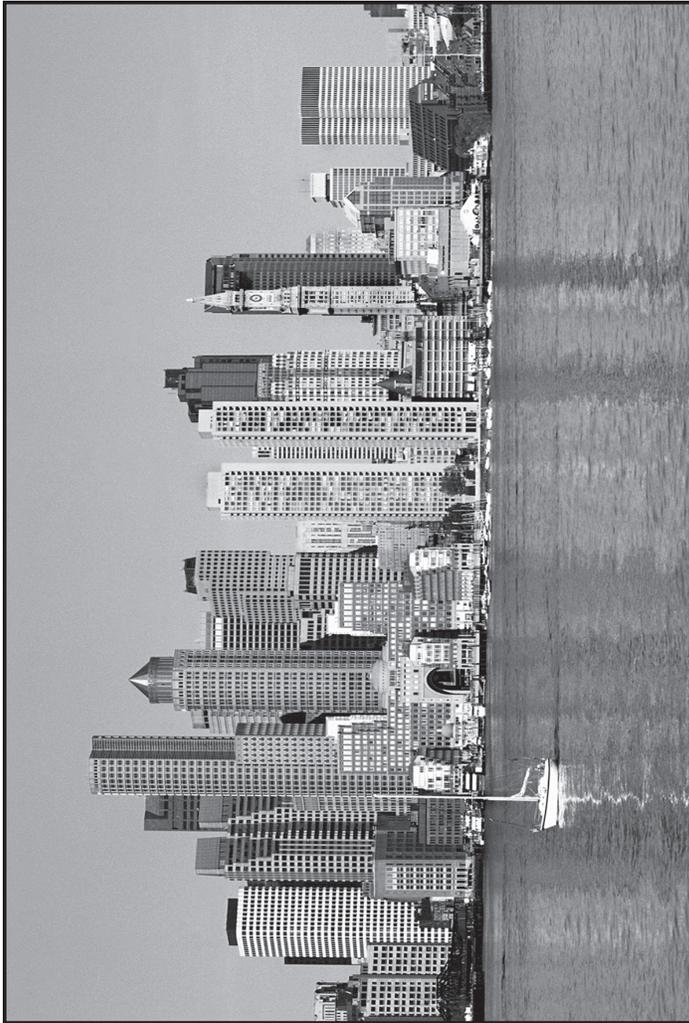




# ASPENEWS

1973 - THE BOSTON CHAPTER - 2010  
A.S.P.E. - P.O. Box 111, East Walpole, MA 02032 - Vol. 38, Issue 1



## Next Meeting

***Tuesday, September 14, 2010***

*The Lantana, Randolph, MA*

### MAIN PROGRAM

**Solar Thermal Systems with  
Evacuated Tube Technology**

### PRESENTED BY:

**Mr. Bill Reid & Mr. Larry Whalen**

### PROGRAM SCHEDULE

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

Chef's Salad, Chicken Marsala  
Boston Cream Pie

### MEETING RESERVATIONS

**\$30.00 Reservation**

**\$40.00 W/O Reservation**

**Retired & Currently Unemployed Members are Free**

Please reserve by **Friday, September 10, 2010**

Contact Cathy @ W.P. Haney,  
(508) 238 – 2030

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## **President's Report**

I was asked by Joe Peluso, The Executive Director of the State Plumbing Board, to write this article. These are my experiences getting approval for a rain water reclaim system for a dormitory project. This article can serve as a guide. It is not intended to be the complete instructions for this process.

First and foremost let me say we must all make our clients aware that this process can be time consuming as this is a "Dedicated System" as defined by the 248 CMR, and will require special permission from the Board. Your client and all other affected consultants must be made aware that there are multiple steps that require the engineers and designers time. So this should be accounted for in both the fees and the workload schedule. In a system such as I designed, the client, the architects, and the civil engineer, along with the plumbing department spent quite a bit of time on the approval process.

Let me first say be careful with rain water reclaim, as the Board currently has a committee to assist them in addressing these systems in the code. At this time the code does not really address these systems and they are considered grey water systems.

Next you should identify any variances which you may be required to obtain for the system. An example of this from the system I designed would be the yard drains which contribute to the system. All drains require board approval and the particular drain which the civil engineer had specified was a typical drain assembly which

*(Continued on page 5)*



## **Membership News**

### **Summer Social at Canobie Lake Park**

For those select few of you that didn't attend on July 17th, you missed a fun time with family and friends. The day was perfect weather wise, sunny and warm with a nice breeze. It was good to see other ASPE families in attendance, and waiting in the surprisingly short ride lines. Our first ride of the day was on the Yankee Cannonball, a traditional wooden structure rollercoaster that is original to the park. Castaway Island was a welcome and refreshing wet play area with water spraying and splashing in every direction. It really cooled everyone off from the summer sun. And then there was the Boston Tea Party ride which has the sole purpose of drenching everyone on board as well as unsuspecting visitors within its "splash zone". The catered all-you-can-eat lunchtime BBQ provided a welcome break in the catering grove and much needed nourishment for the afternoon. A spectacular fireworks display was certainly a highlight later in the evening for everyone still in attendance. Hopefully by the time you get this newsletter I will have a select few photos and movies posted on our chapter website. There's a great movie of the Boston Tea Party as well as the fireworks display.

Thanks to the generosity of the Boston Chapter Board, a substantial amount of the cost was paid for by the chapter. This is just one example of the benefits our members receive in this Chapter. We are always trying to get our younger members more involved with the chapter. Offering family friendly events hopefully will help us get you to participate more. We are only as strong as our participating members. Please get involved starting with the September meeting.



*(Continued on page 6)*

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## Technical Report

September already! Ouch, where did the summer go? That was my first thought while putting together this month's article. But looking back over the last ten weeks I know that it was extremely busy but enjoyable. There were plenty of barbecues, and despite the heat, time outdoors with the family. I certainly hope that you had a great summer too!

Work has been more challenging than I can ever remember. Day to day I have noticed that we are being called upon to produce information in what appears to be a shorter period of time. We are the experts in our field and our clients and co-workers expect nothing but the best. This can and will lead to various levels of stress – some days you feel like you ran a marathon. There are many days that I come home to rest and re-charge my batteries so I can do it all over again the next day. There are other days that I have extra work to attend to –the point is that there never seems to be enough time to do everything. Most often though I spend time with my family, after all this is why I am doing what I do.

Factoring all this you have to ask yourself when can I find the time to polish my skills and expand my knowledge that makes me the expert? As most of us know there are many resources that we can utilize. Text-books and magazines are great places to start. But some the best knowledge can be gained from sharing experiences with others in our field. I am encouraging you to attend a chapter meeting. Make the meeting the best experience for yourself as possible; talk to some vendors or other engineers. A few suggested question to help break the ice: What project are working on? Do they have any industry news to share; Have you heard from so and so; etc. I know that in time that knowledge will grow. You will become sharper at your job.

### September Technical Topic & Speaker

The September technical topic will be designing Solar Thermal For Domestic Hot Water Systems. The session will focus mainly on evacuated tube technology. The subject will be presented by **Mr. Bill Reid and Mr. Larry Whalen of Urell Inc.**

I certainly hope to see you at the next meeting.

By Rich Dean, CPD, V.P. Technical

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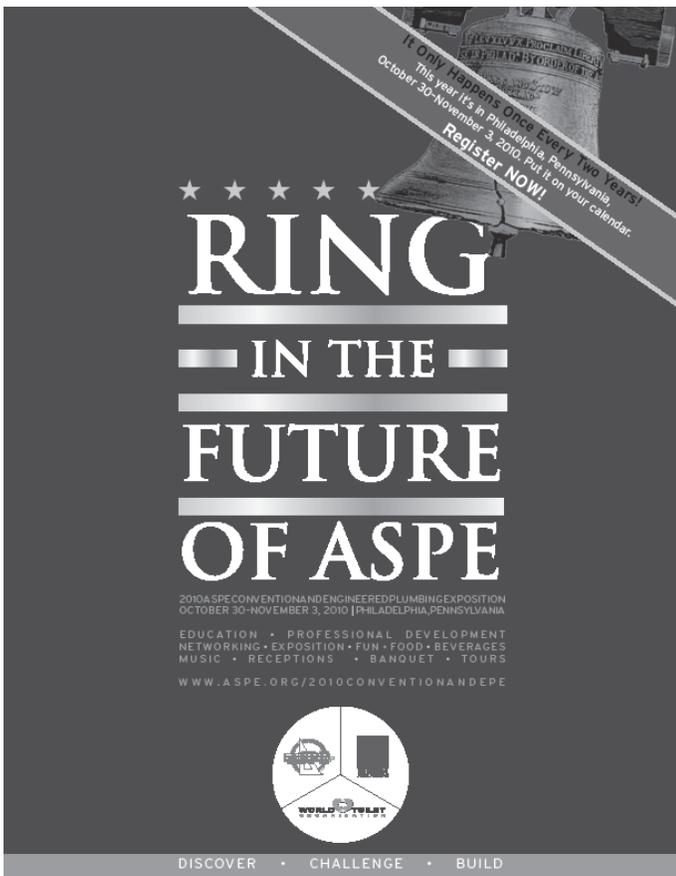
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(Continued from "President's Report" page 2)

has H 25 loading. These drains were used to allow Fire Trucks to use the back of the building as access during an incident. For this reason it was imperative that these drains remain in the design. The design team completed the variance application and sat for the variance hearing. As with any variance hearing we had to provide any required back up requested, this we obtained from the manufacturer of the drain. We also were required to have the civil engineer produce back up to show the need for the drain.

The next step was the application for the special permission. All these forms such as the variance application and the special permission application, are available on the board's website. When you apply for the permission try to make your documents as clear as possible. In our case we showed all the yard piping "in-function" on the plumbing drawing and all the structures such as manholes and the cistern tanks themselves "out-of-function". On the civil drawings we showed the system in the exact opposite manner, as the installation of this type of system is required to be installed or overseen by a Plumbing Contractor. Our drawings included a general note stipulating this requirement.

Once the separate contracts were shown clearly on the drawings we identified areas where we may have to deviate from the letter of the code. As the reclaimed rain-water is to be used for irrigation we did not want to dye the water so this would have to be brought to the attention of the reviewers. Also The State Plumbing Investigator on the job had told us we would be required to use Cast iron and Ductile Iron in the design. As the project is a dormitory the code does not require the installation of Cast Iron in the building. As the design engineer on the job, I was concerned about noise in the building, and for this reason Cast Iron was specified.

The last step was to attend the special permission meeting with the Board's Executive Director, Joe Peluso, and Lou Visco, the Board's consultant. We explained the system the deviations from the board requirements, and were granted permission to install the system.

As you can see this is a condensed version of the whole story but this should act as a sort of road map. Each "Dedicated System" will be most likely be different in some respects, and will require different variances and information.

My experiences should be considered when you approach the design and permitting of any "Dedicated System" as defined in 248 CMR. Visiting the Board's website, and communicating with the Board, prior to construction permitting, and allowing enough review time, is always a wise decision. The board is very approachable, and always willing to help.

By Frederick Neth, CPD, President, Boston Chapter ASPE



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### No New Chapter Members

The Boston Chapter doesn't have any new members to welcome this month. This hasn't happened in a long time. Please note that our membership numbers continue to drop every month from members not renewing their membership. Please be diligent in renewing your membership so that you don't get dropped from our monthly newsletter mailing list. We want you to stay in touch with everything we have planned all year. If you are currently unemployed, please be advised that ASPE offers a membership dues compassion waiver. Wow, what a smooth segue to my next topic...

### Membership Dues Compassion Waiver

As I have reported in the past, Society is offering a membership dues compassion waiver for our newly unemployed members. In a nutshell, any unemployed member may maintain their membership over a three month period. After the three month period, the unemployed member can renew their membership at a discounted price. It is important to note that if you want to take advantage of the waiver, you must let me know prior to your membership renewal date. I will contact Stacey Kidd at Society and take care of setting it up for you. I have recently learned that if you/we do not notify ASPE Society before your annual membership expires, you will not be eligible for the waiver.

### Unemployed or Retired?

With today's economy being what it is, the Boston Chapter Board of Directors would like to help out our unemployed and retired members. At this September technical meeting, if you are unemployed or retired, we welcome you to attend at no charge. When you make your reservation, please let us know if you are either retired or unemployed, and we will waive the meeting Charge. Come to the meeting and connect with your friends, do a little networking, and enjoy the night.

By John Callahan, CPD, V.P. Membership,  
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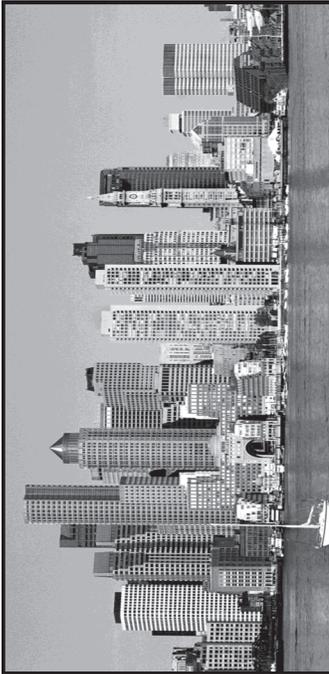
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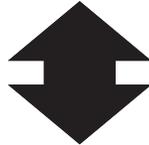
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