



# WASHINGTON DC CHAPTER ASPE NEWS

PO Box 3875 Frederick, MD 21705

**April 2011 Issue**

**AMERICAN SOCIETY OF PLUMBING ENGINEERS**  
CHAPTERS ARE NOT AUTHORIZED TO SPEAK FOR THE SOCIETY

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## President's Message



**Matt Lane**  
President



### **Good luck to those taking the CPD Review Class and/or taking the CPD Exam this month!**

The review session will be Saturday, April 2, 2011 at the office of EJ Dwyer in Annapolis Junction, Maryland. The session will be from 11:30 AM to 5:00 PM. Any ASPE member interested in attending this session is required to forward an e-mail to David Bailey at the following address: [dbailey@loringengineers.com](mailto:dbailey@loringengineers.com).

The fishing trip is scheduled for Friday 2:00 PM, May 20th out of Deale, MD on the Loosen Up. Spots are limited so let me know if you are interested and want to join in. The cost is \$75.00 a person. We will be fishing for rock fish and this is trophy season....meaning we are going after the big ones! We have a good response already, so if you want to fish, let me know soon. "FISH ON"!!!!

The chapter golf tournament will be held September 12, 2011. There is going to be a new format this year. We will be playing Captain's Choice. Additional information will be coming soon. FORE!!!!

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### ICC Green Code 2012

In this month's article I am going to look in more depth what exactly is being proposed by ICC for the 2012 Green Construction Code. Currently Public version 2.0 is posted at their web site and I would encourage you to stop by and see exactly what is being proposed. Upcoming dates of importance regarding this code are 2011 Code Development Hearing May 16th to 22nd, Public comments up to August 12th, Final Action Hearing on November 2nd to 6th, and Publishing of the 2012 code in March of 2012. A list of these dates along with the Public version 2.0 can be found at the following location.

<http://www.iccsafe.org/cs/IGCC/Pages/PublicVersionDevelopment.aspx>

There are two chapters of this code I will focus on, Chapter 6 Energy Conservation, Efficiency and Atmospheric Quality and Chapter 7 Water Resource Conservation and Efficiency. The primary focus in chapter 6 in the plumbing industry would be the heating of water and in chapter 7 the proposals for reducing water.

The Energy Chapter 6 is complicated. I won't be able to do justice with a few paragraphs and a few hours mulling through the chapter. But needless to say Plumbing engineers need to be aware of which part of the puzzle we will be providing in the reduction in energy. Depending on the type of building Occupancy, Jurisdictional Choice and the Building zero energy performance index (zEPI) as defined in but limited to sections 602 and 603, yes that is the thumping of my headache you are hearing after reading those two sections, we may be required to provide the following

Section 608.4 calls for rough-ins for future solar hot water pre-heat, plumbing, electrical and controls shall be designed and constructed to provide for the future installation of solar water heating system that will be capable of providing not less than 50 percent of the energy needed for the following systems, 1.) Service Water Heating for kitchen laundry and bathing. 2.) Pool Water Heating. 3.) Spa Water Heating. 4.) Hot Tub Water Heating.

Section 608.6 call for Waste Water Energy Recovery system that shall be provided with a waste water heat recovery system that will preheat all of the incoming water for all hot water functions by not less than 10 degrees F for the following facilities Restaurants and Banquet hall, Laundries, Boarding houses, Hotels, Motels, Health Clubs and Spas, Hospitals, Mental Hospitals and Nursing homes.

Section 608.7 deals with piping insulation requirements and section 608.8 deals with requirements for the control of circulating hot water systems.

One of the possible methods for meeting the Building Renewable energy systems in section 611 is 611.4 Solar water heating equipment. This section states not less than ten percent of the building's annual estimated hot water energy usage shall be met by on-site solar water heating equipment.



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## Presidents Message Continued

President, Matt Lane

On a separate note, we understand there have been issues with members not receiving evites and announcements from the chapter which we are trying to correct. If you or someone you know is not receiving evites please let us know so we can make sure we have everyone aware of what's going on with the Washington DC Chapter.


The chapter is also trying to help out our fellow engineers by posting job opportunities on the website. Make sure you keep an eye on the chapter website for information. Currently there is a position for a plumbing engineer and two mechanical engineers (pass it along to your HVAC friends) posted. If your company is looking for engineers, please have them contact me so we can help out. The postings from companies are at no cost. This is for our members and during this economic situation we are all in.....we need to help and watch out for each other.


The chapter officer's election is coming up at the May 18th, 2011 meeting. More to follow on this.

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## Membership VP Membership, Evan Anderson

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Fellow Members,

As I mentioned in previous articles, we have set a goal for our Chapter to reach 185 members in 2011. Currently our membership stands at 157 members, reaching 185 members could be seen as a lofty goal. However, I feel with a little hard work and the right amount of attention, we can get there. At our last Board meeting, the officers discussed just this topic - How can we take our Chapter to the next level?

Let's pretend we are thinking about going to the movies. I don't know about you, but if I am going to spend \$50 dollars or so (\$75 After Snacks) to take my family to the movies, it better be a good one! I normally don't contemplate spending money on a movie unless I've heard good things about it. When it comes to deciding if a movie is worth it, who do I trust for advice? Flickster, Fandango or Siskel & Ebert, no I go to my Friends, Family, and Co-workers. Are you starting to think what I am thinking?

It is time we tap into our best resource, that's right, our current members! You are the folks rubbing elbows and meeting with others in our community who could benefit from our Chapter. So, starting March 1st, 2011, if you refer a new member to join our ranks the Chapter will cover the cost of your dinner at the next technical session. All you need to do is have the New Member list you on their application as the person who referred them. Once they have paid and are enrolled as a new member, both you and the new member will receive a free meal! Former members who have been apart from us longer than two years will also receive a free meal when they return to the chapter. Our hope is this will help get us all talking about the benefits of being an ASPE Member. If you have any questions regarding this new plan, please don't hesitate to contact me.

Thanks again for all your help!

Sincerely,  
Evan Anderson  
Vice President of Membership, D.C. Chapter  
[evan.anderson@sthinc.com](mailto:evan.anderson@sthinc.com)



Section 613 touches of the Jurisdictional requirements and project electives. This mostly deals with dropping the Building zero energy performance index lower(zEPI) but section 613.5 get into the prescriptive path making it mandatory to comply with section 608 as described above.

Let's move on to the water section. Section 702.1 states the maximum flow rates allowed per fixture type and also states the aggregate potable water consumption shall be 20 percent less than the reference value. Section 702.1.2 gets into electives further reducing the consumption to either 30 or 40 percent.

Section 702.8 get into the maximum allowable volume of hot water in a non-recirculation system 80 ounces between the heat source and fixture and a recirculation loop or heat traced pipe of 24 ounces between the main and the fixture. There is a chart provided in this section listing the liquid ounces per foot of length for different types of material and sizes.

The rest of the sections in 702 deal with specific special type fixtures or applications. Section 703 deals specifically with HVAC systems and equipment. Section 704 deals with specifically with water treatment devices. And section 705.2 address the requirements for sub metering required within the building, see table 705.2.1

**TABLE 705.2.1  
METERING REQUIREMENTS**

| <b>APPLICATION</b>              | <b>REQUIREMENTS</b>   |
|---------------------------------|---|
| Irrigation                      | Irrigation systems that are automatically controlled shall be <i>metered</i> .  |
| Tenant Spaces                   | Tenant spaces that consume water shall be <i>metered</i> individually.  |
| Onsite Water Collection Systems | The makeup water lines supplying onsite water collection systems shall be <i>metered</i> .  |
| Ornamental Water Features       | Ornamental water features with a permanently installed water supply shall be required to utilize a <i>meter</i> on makeup water supply lines. |
| Pools and Spas                  | Indoor and outdoor pools and spas shall be required to utilize a <i>meter</i> on makeup water supply lines.                                   |
| Cooling Towers                  | Cooling towers or groups of towers shall be required to utilize a <i>meter</i> on makeup water and blow-down water supply lines.              |
| Steam Boilers                   | The makeup water supply line to steam boilers having a rating of 1,000,000 BTU/h or greater shall be <i>metered</i> .                         |
| Industrial Processes            | Industrial processes consuming more than 1,000 gallons per day on average shall be <i>metered</i> individually.                               |
| Evaporative Coolers             | Evaporative coolers supplying in excess of 0.6 gpm , on average, makeup water shall be <i>metered</i> .                                       |
| Fluid Coolers and Chillers      | Water-cooled fluid coolers and chillers that do not utilize closed-loop recirculation shall be <i>metered</i> .                               |



Section 706 thru section 709 deal with the different type of non-potable water, which I will give a general overview since I am running out of room and time on a Friday afternoon. Section 706 deals with Non-potable water requirements, Section 707 Rainwater Collection and distribution, section 708 graywater systems and 709 reclaimed water systems.

And last but not least Section 710 Project electives. There are 10 different electives in this section should the owner or local jurisdiction have the desire to meet these requirements. They range from using non potable water for plumbing flushing fixtures to sprinkler systems.

Based on what local jurisdiction choose to adopt out of this code we could see many changes to the way we currently design our plumbing systems. This is just a brief overview of things to come. See you at the April meeting where there will be a test on what zEPI actually is, maybe.

Dennis Cavallaro CPD, LEED AP  
VP Legislative  
dcavallaro@southlandind.com





April 2011

Sorry to have missed everyone at the March meeting but I was on injured reserve and was not up to traveling. A thank you goes out to Mr. Vic Hines from Charlotte pipe for his presentation on plastic pipe. The tech session for the April meeting will cover water softener technology. Many clients, such as the military and USACE, are concerned about water quality and require softening systems for domestic water that tests above certain limits.

Carl Wehmuller of the Cummins-Wagner Company passed on to me a very interesting, insightful if not controversial article from John Hopkins Medicine. The article, issued by David March of the John Hopkins Media Relations and Public Affairs office, addresses a study done of newly installed sensor operated faucets at the hospital. The article is quite lengthy so I will summarize it and list a link at the end of this article. The study found that the "hands free" faucets were more likely to be contaminated with the most common and hazardous bacteria than fixtures with handles. Of the faucets tested 50% of the cultured samples contained Legionella bacteria compared to only 15% of the old style handle faucets. Although the study did not reveal the specific cause for the elevated bacteria levels it is suspected that the more intricate interior of the sensor valves offers more places for bacteria to grow. The facilities engineers at Johns Hopkins are in the process of replacing sensor faucets with manual faucets in the patient areas. In new buildings under construction manual faucets will be used in patient areas. The original intent of the study was to determine how often and how long the treated water at the hospital needed to be flushed through the system. The findings were surprising to the team. The findings are being presented April 2, 2011 at the annual meeting of the Society for Health Care Epidemiology (SHEA) in Dallas. More information can be found at:

<http://www.hopkinsmedicine.org/heic>

[http://www.shea-online.org/about/annual\\_meeting\\_overview.cfm](http://www.shea-online.org/about/annual_meeting_overview.cfm)

I am open to some feedback on this issue, especially from the manufacturer's reps and designers/engineers.

See you at the April 20 meeting.

Ron Ball

VP Tech

## What is the DC Chapter Board of Directors Doing for Its Members?

By Administrative Secretary, JR Gyger



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### What is the DC Chapter Board of Directors Doing for Its Members?

Prior to taking on the duties of the Administrative Secretary for the DC Chapter of ASPE, I always wondered what it was that the Board of Directors did for the Chapter other than provide a monthly technical presentation and dinner. In order to find out, I started attending the Board of Directors meetings last March (with the Board's consent of course) and ultimately deciding to run for an officer position for the 2010-2011 year. I was pleased to find that the Chapter's officers are all dedicated professionals, both design engineers and sales engineers, who are committed toward making the DC Chapter one of the best chapters in all of ASPE.

Aside from the monthly technical sessions at Olive Garden, which need to be planned well in advance for both the tabletop presenter and technical presenter, much planning takes place in order to organize chapter networking events such as the Golf Outing, Fishing Trip, and Holiday Social. Each of these events takes months of planning and in most cases the planning for next year's event begins as soon as this year's event is over while the experience is still fresh in everyone's minds. Included in the planning are finding a venue and agreeing upon a time for the event that is convenient to the membership, but in addition to that, there is a lot of work in trying to get the event sponsored so that the members can enjoy the experience at a reasonable price.

Although it may seem I am just writing this to give my fellow Board members a pat on the back for a job well done in 2010 (which they totally deserve), I actually wanted to take this opportunity to report on some less obvious things the Board has been doing lately. The first item is a job posting page on the Chapter website. The Board passed a motion last year that allows companies to announce vacancies on the Chapter website as an added resource for any members who have felt the pinch of the tightening economy. ASPE DC is offering this as a free service to its members; there is no cost to respond to an advertised position and there is no cost for a company to post an ad for a position within their own company (no recruiters). For more information, on posting a position, contact Chris Barnard [cbarnardsr@yahoo.com](mailto:cbarnardsr@yahoo.com).

## What is the DC Chapter Board of Directors Doing for Its Members? By Administrative Secretary, JR Gyger



Another item of business for the DC Board of Directors has been a new member incentive. Last month the DC Chapter Board developed and passed a motion that will give any new member a free technical session dinner, a \$30 value, when they sign up for a year ASPE membership and choose the DC chapter as their chapter affiliation. There is an additional incentive for current members who recruit a new member; both will receive a free technical session dinner. Look for the VP Membership report for more information or contact Evan Anderson [ema@sthinc.com](mailto:ema@sthinc.com).

These are only a few of the things the DC Chapter Board of Directors is doing for its members, but we are always open to suggestions and recommendations. So if you think there is a way that the DC Chapter of ASPE can serve you better please let us know! If you are interested in running for an officer position so you can also help continue to make the DC Chapter one of the best chapters in all of ASPE, contact one of the current officers; contact information is on the Chapter Officers page of the Chapter website [www.aspedc.org](http://www.aspedc.org).

Lawrence "JR" Gyger, Jr., PE, CPD, LEED AP  
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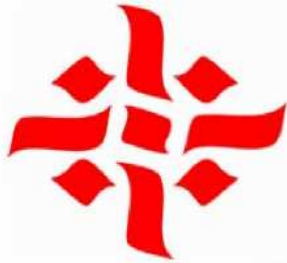
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## *Chapter Meeting Location*

**Washington Chapter** meetings are currently being held at the Olive Garden located on Route 7 (8133 Leesburg Pike) in Tyson's Corner. Please join us for our **General Meeting April 20th, 2011**  
Call for directions: (703) 893-3175



**All Reservations for dinner are requested by:**  
Noon, Tuesday April 19th, 2011

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Email Chris Barnard <mailto:cbarnardsr@yahoo.com> to be added  
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