



WASHINGTON DC CHAPTER ASPE NEWS

PO Box 3875 Frederick, MD 21705

December 2010 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



Just returning from the convention today, I've got to say it was a worthwhile and educational trip!

Not only getting a look at a lot new products and meeting lots of fellow engineers and vendors from across the nation and Canada, but also being able to serve as a delegate for the first time. This is something I think all engineers should try to do at least once in their career. It was truly eye opening to see how things work on a national level.

A huge thanks to Bay Associates for bringing a bus load of over 40 engineers to Philly to help represent the Washington, DC and Baltimore chapters. It was nice see members as I walked through. And a few won laptops! Congrats to them as well!!!!

Another big announcement is that the Washington DC Chapter's own David Bailey and Don Keith (both past presidents) were selected to be part of "The Kenneth G. Wentink" College of Fellows! Please congratulate them when you see them.

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Congratulation and Pressure

I would like to start this month article out by first congratulating Donald Keith and David Bailey. At last month Convention both were inducted into ASPE The Kenneth G Wentink College of Fellows. While it was a surprise to all of us who attending the awards banquet at the Convention since neither made a mention to us, it was not a surprise that each were honored with this induction. I have been fortunate enough to know both of our chapter members well and I have been a firsthand witness to the time, dedication and passion both of them have for our chapter along with the Society. It was very much deserved, Congratulations.

This month I would like to address a change in the code that will affect all of us at some point or another in the near future. If you have happen to look at the 2009 International Plumbing Code you might have notice a change from the 2006 version. The change I am referring to the Table 604.3 "Water Distribution systems design criteria required capacity at the fixture supply pipe outlets" This table deals with the minimum flow rates and flow pressure required at fixtures.

In being more conscious of reducing the amount of water we use the fixture manufactures have increased the required pressure in doing so. These minimum pressure requirements from the manufactures at fixtures have been greater than 2006 IPC requires the past few years. So essentially the 2009 IPC code pressure requirements are catching up with the manufactures are recommendation for proper function of their respective fixtures. Below is a table highlighting the changes between the different version. This table only highlights the major differences between the different version, I would highly recommend that you refer to the Code for all of the changes for each type of fixture.

FIXTURE SUPPLY OUTLET SERVING	2006 IPC PSI	2009 IPC PSI
BATHTUB	8	20
BIDET	8	20
URINAL	15	20
WATER CLOSET, BLOW OUT, FLUSHOMETER VALVE	25	45
WATER CLOSET, FLUSHOMETER TANK	15	20
WATER CLOSET, SIPHONIC, FLUSHOMETER VALVE	15	35
WATER CLOSET, TANK CLOSE COUPLED	8	20

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Also one should take into consideration what type of backflow prevention is required on the incoming service. In the past only a double check valve had been required. But more and more jurisdictions are requiring a Reducing Pressure Principle Backflow Preventer on the incoming service. The Reducing Pressure Principle Backflow Preventer carry a much higher pressure loss through the valve than a double check valve. I am aware of at least one instance in changing the type of backflow preventer has caused pressure issues within a Building. Where the backflow preventer had been changed and no analysis of entire distribution system had occurred before the change was made. A long story short, they didn't have enough pressure to accommodate this change in backflow preventer and now a booster pump was required.

With increase in pressure losses with the change in backflow preventer and the increase pressure requirements at the fixtures we can no longer assume that we have adequate pressure in instances we have in the past. For instance in a one story building with a siphonic flushometer valve water closet with a Reducing Pressure Principle Backflow Preventer on the incoming service we would be looking at a minimum pressure of 45 to 50 PSI. And that is without taking into consideration any other pressure losses within the system including but not limited to Static and Friction head losses.

Engineers, Contractor and Owners all need to be aware that the newer low flow fixtures are not just plug and play items. That analysis and consideration have to take place before such changes are made to existing systems. And that reducing water usage through low flow fixtures will require additional pressure. In some instances at the expense of additional energy to accomplish this.

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Membership VP Membership, Evan Anderson

Friends,

Even in a down economy, the ASPE DC Chapter has once again enjoyed growth in our ranks. Please take a few moments at our next function to recognize the following new members who joined in the months of June and July.

Stephanie Rittler
Samuel Allen Brunetto P.E.
Gregory E. Cathell
William Harrison Rawls
John Michael Apperson
Robert Edward Beavers
Stephen Everett Brown
Bryan Keith Soulier G.E.

We would also like to recognize the anniversaries of the following members.

Raleigh D. Galloway 5 Years
Jonathan D. Sargeant 15 Years
Carl Y. Wehmueller 15 Years
James L. Spencer 15 Years
Lawrence H. Jones 20 Years
Gene W. Wilkes 20 Years
Lawrence S. Galowin Ph.D 25 Years



The 2010-2011 ASPE year is under way with a variety of technical sessions. So far we have had presentations on tankless water heaters, rainwater harvesting, and modulating pump technology. I encourage you to attend our upcoming meetings with topics such as water softener technology and grease interceptors to name a few. The calendar is full as far as speakers are concerned but if you would like to be on a waiting list please contact me. A proposal to allow more than one tabletop at a meeting was put before the board and accepted. The main restriction is that conflicting tabletops will not be allowed, such as two water closet competitors at the same meeting. Currently we have one tabletop scheduled for each meeting through the rest of the year but if anyone is interested please contact me and we can work you into the schedule.

I saw a few of you at the convention in Philadelphia and hope you had a rewarding experience. The venue was very good and the Exposition seemed to be well attended. There was a technical session for about any taste or interest. If you did not attend any of the World Toilet Conference presentations you missed some interesting speakers. The amount of research and engineering into providing sanitary conditions world wide especially for "third world" countries is amazing. One of the more humorous talks was by the director of the BTA (British Toilet Association) concerning their "Loo of the Year" award. It is amazing that there were over 1500 entries at roughly \$150 each competing for this designation. A variety of companies, restaurants, public buildings, and government agencies participated. The goal is to improve public toilets in the British Isles as well as increase the dwindling number of public toilets. Participants had their toilet rooms rated on a 1 to 5 star scale with an extensive list of standards. The 2009 winner was McDonald's with a total of 200 stores entered out of about 900 in Great Britain. While this seems rather lighthearted and over the top just think about some of the nightmarish public toilets you have been in over the years.

As they say in the land of the loo, ta, ta, for now.

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FUN STUFF -

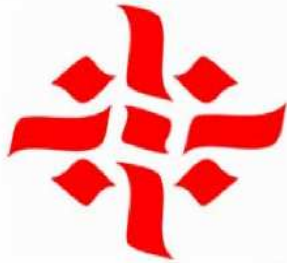


He gets All Shook Up when
It comes to his registration

You know Im Ball, Im Ball, Come on



Sgt. Bailey and
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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 January 19th, 2010**
Call for directions: (703) 893-3175



All Reservations for dinner are requested by:
Noon, Tuesday January 18th, 2010

RSVP to the evite
Email Chris Barnard <mailto:cbarnardsr@yahoo.com> to be added to mailing list.

Dinner:	Member:	\$28.00
	Non-Member	\$30.00



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