



ASPEnewsletter

Southwestern Ohio Chapter

Nov 2009

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Chapters are not authorized to speak for the Society

**AMERICAN SOCIETY OF
PLUMBING ENGINEERS
SOUTHWESTERN OHIO CHAPTER**

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ASPE November Meeting

Date: TUESDAY, November 17th

Location: Location: RAMADA INN, 6147 W St Rte 122, Middletown, Ohio. 513-424-1201. From I-75, take the Middletown Exit and go east to the Ramada Inn.

Schedule: 11:30-12:00 PM Lunch
12:00-12:45 PM Program

Speaker: "Green " Plumbing Systems presented by Zurn Green Systems and Bill Hutchinson of BWA South

Cost: \$20 at the door Engineers/Designer/Contractor/Code Official
\$140/Year Meal Assessment. \$25 at the door Mfg. Rep./Vendor
or \$160/Year Meal Assessment

Reservations: Contact Bob McCain of BSE at (e-mail) rlmccain@bseltd.biz, (phone) 937.312.0217 or (fax) 937.438.0195 before **MONDAY November 16th** so that a head count can be established. As always, guests are welcome. Bring a friend.

FUTURE MEETING SCHEDULE

- Nov 17, 2009 "Green Presentation " presented by Zurn Green Systems and Bill Hutchinson of BWA South.
- Dec15, 2009 Dayton Engineers Club Christmas Party
- Jan 19, 2010 "Seismic Bracing" presented by Chris Jacobs of ISAT Inc. and Pat Murphy of Midwest Spec.
- Feb 16, 2010 "Specialized Fixed Fire Control Systems & The Adding of F-500" presented by Thomas Price of Hazard Control Technologies
- Mar 16, 2010 "Comparisons of Hot Water Boiler/Storage Tank VS Tank Type Heater for Commercial Applications" presented by Denny Lammers of Campbell Equipment Company.
- June 1, 2010 Dayton Dragons
- June 2010 Region II Presidents Meeting

**All meetings held in Middletown unless noted otherwise
All meeting topics subject to change without notice**

**Southwestern Ohio Chapter-ASPE
2009-2010 Chapter Meeting Meal Assessment Form**

For the 2009-2010 Chapter year, the Board of Directors has established the following individual and corporate meal assessment rates for all regular Chapter meetings:

- \$140 Individual Meal Assessment**
- \$160 Corporate Meal Assessment** (can be used by more than one individual during the 2009-2010 Chapter year)

Please indicate your meal assessment choice, include your check (payable to the Southwestern Ohio Chapter-ASPE and marked "Meal Assessment") and complete the following:

From: _____

Tel: _____
Fax: _____
e-mail: _____

**To: Matt Sciarretti
 Heapy Engineering, LLC
 1400 W Dorothy Lane
 Dayton, OH 45409-1310**

November/December 2009						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	9	10	11 Veterans' Day	12 Give thanks unto yourself; make your reservations!	13	14
15	16	17 SW Ohio Chapter meeting	18	19	20	21
22	23	24	25	26 Thanksgiving	27 Only 28 shopping days until Christmas!	28
29	30	1	2	3	4	5

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	No Lead Commercial Brass WE GOT THE LEAD OUT	

Legislatively speaking...

- To update the continuing saga of the **2010 Ohio Plumbing Code (OPC)**: the Plumbing Ad Hoc Advisory Committee recommendations were given to the Board of Building Standards (BBS) Code Committee. After consideration of the comments, the BBS Code Committee recommended the proposed rules be moved to public hearing on November 13, 2009. A copy of the proposed OPC can be found at <http://www.com.ohio.gov/dico/docs/bbst OPC.pdf>. The public hearing will be held at 10 AM in Training Room #1 at 6606 Tussing Road, Reynoldsburg, OH. Anyone is welcome to provide testimony in opposition or in support of the proposed rules. Testimony may be presented in person or in writing.

Sometime in December or January, the Board will vote on the 2020 OPC's implementation. Assuming we get the expected positive vote, the 2010 OPC will be printed and distributed in late-Winter/early-Spring, with the new code going into effect on June 1, 2010. Remember, there will be **NO GRANDFATHERING OF PROJECTS DESIGNED UNDER THE 2007 OPC**.

Once again, all dates listed above should not be taken as absolute (after all, we are dealing with the State of Ohio).

- Continuing on the theme, what follows are some **more changes being considered for the 2009 International Plumbing Code (IPC)**:

In the interest of water conservation, one change would limit showers to a flow rate of 2.5 gpm for every 2600 square feet of floor space. This would impact

large multiple outlet showers/home spas which traditionally use considerably more than 2.5 gpm.

Hot water temperatures would have to be regulated through a master thermostatic mixing valve under another change. The master mixing valve would be mandated for all domestic hot water supplying bathing or washing and set at a maximum of 120 degrees F.

Currently, the IPC requires domestic hot water recirculation systems for all supply piping exceeding 100 feet in length. There are two proposals seeking to change this. One proposal would reduce this to 40 feet; the other to 50 feet.

ASPE is spearheading two proposals for the IPC. One would provide for Single Stack (aka Philadelphia) Venting; the other would add ASPE 45, the siphonic drainage standard, into the IPC.

- The US Environmental Protection Agency has released for public comment its draft WaterSense specification for showerheads, which sets the maximum flow rate at 2.0 gpm at a flowing pressure of 80 psig. The performance part of the specification follows:

2.0 General Requirements

2.1 The showerhead shall conform to applicable requirements in ASME A112.18.1/CSA B125.1.

2.2 If the showerhead has more than one mode, all modes must meet the maximum flow rate requirement outlined in Section 3.1.1 and at least one of the modes, as specified by the manufacturer, must meet all of the requirements outlined in this specification.

2.3 The showerhead shall not be packaged, marked, or provided with instructions directing the user to an alternative water-use setting that would override the maximum flow rate, as established by this specification. Any instruction related to the maintenance of the product, including changing or cleaning shower head components, shall direct the user on how to return the product to its intended maximum flow rate.

References to this and other standards apply to the most current version of those standards.

3.0 Water-Efficiency Criteria

3.1 The flow rate of the showerhead shall be tested in accordance with the procedures in ASME A112.18.1/CSA B125.1 and shall meet the following criteria:

3.1.1 The manufacturer shall specify a maximum flow rate value (rated flow) of the showerhead. This specified value must be equal to or less than 2.0 gallons per minute (gpm).

Draft Version 1.0 1 September 24, 2009 WaterSense Draft Specification for Showerheads

3.1.2 The maximum flow rate shall be the highest value obtained through testing at flowing pressures of 20, 45, and 80 ± 1 pounds per square inch (psi). This maximum flow rate shall not exceed the maximum flow rate value specified in Section 3.1.1 when evaluated in accordance with 10 CFR 430 Subpart F, Appendix B, Step 6(b).

3.1.3 The minimum flow rate, determined through testing at a flowing pressure of 20 ± 1 psi, shall not be less than 60 percent of the maximum flow rate value specified in Section 3.1.1 when evaluated in accordance with 10 CFR 430 Subpart F, Appendix B, Step 6(a).

3.1.4 The minimum flow rate shall be the lowest value obtained through testing at flowing pressures of 45 and 80 ± 1 psi. This minimum flow rate shall not be less than 75 percent of the maximum flow rate value specified in Section 3.1.1 when evaluated in accordance with 10 CFR 430 Subpart F, Appendix B, Step 6(a).

4.0 Spray Force Criteria

4.1 The spray force of the showerhead shall be tested in accordance with the procedures outlined in Appendix A and shall meet the following criteria:

4.1.1 The minimum spray force shall not be less than 2.0 ounces at a pressure of 20 ± 1 psi at the inlet, when water is flowing.

5.0 Spray Coverage Criteria

5.1 The spray coverage of the showerhead shall be tested in accordance with the procedures outlined in Appendix B and shall meet the following criteria:

5.1.1 The total combined maximum volume of water collected in the 2- and 4-inch annular rings shall not exceed 75 percent of the total volume of water collected, and;

5.1.2 The total combined minimum volume of water collected in the 2-, 4-, and 6-inch annular rings shall not be less than 25 percent of the total volume of water collected.

6.0 Flow Rate Marking

6.1 The product shall be marked with the maximum flow rate value in gpm as specified by the manufacturer, verified through testing and in compliance with this specification.

6.2 The product packaging shall be marked with the maximum flow rate value in gpm as specified by the manufacturer, verified through testing and in compliance with this specification.

- The American Society of Sanitary Engineering (ASSE) has **released revised and expanded edition of ASSE Series 5000 (Cross-Connection Control Professional Qualification Standard) and the ANSI-approved Series 7000 (Professional Qualifications Standard for Plumbing Based Residential Fire Protection Systems Installers and Inspectors)**. Series 5000 includes two new standards: the Fire Sprinkler System Cross-Connection Control Tester Professional Qualification Standard and the Backflow Prevention Program Administrator Professional Qualification Standard. Series 5000 also defines the minimum performance requirements for testing backflow preventers and covers the minimum requirements needed to be an ASSE-certified backflow prevention assembly tester or repairer and cross-connection control surveyor. Series 7000 consists of two standards which apply to one- and two-family dwellings: the 7010 Standard which applies to individuals who provide layouts, details and calibrations for plumbing-based residential fire protection systems. And the 7020 Standard applies to individuals who inspect plumbing-residential fire protection systems.

- The members of our Chapter who are or are about to become registered Professional Engineers (PE) with the State of Ohio could do well to pause and ask themselves the following question: “Do I **really** know and understand **my professional and legal obligations as a Professional Engineer under the Ohio Administrative Code (OAC)?**” Let’s consider the points contained in OAC Section 4733-35 (Note that while certain passages have been boldfaced for emphasis, do pay attention to the entire Section; there are many points to ponder).

4733-35-01 Preamble.

*The engineer...who holds a certificate of registration from the Ohio state board of registration for professional engineers...**is charged with having***

knowledge of the existence of the reasonable rules and regulations hereinafter provided for his or her professional conduct as an engineer...and also **shall be deemed to be familiar with their several provisions and to understand them.** Such knowledge shall encompass the understanding that the practice of engineering is a privilege, as opposed to a right, and the registrant shall be forthright and candid in statements or written responses...

Bottom line: as a practicing professional engineer, the individual is legally required to be familiar with and understand the rules and regulations as established by the Ohio State Board of Registration for Engineers and Surveyors. A lack of knowledge and/or understanding of these rules by a practicing professional engineer are in itself a violation of the law.

4733-35-02 Integrity.

The engineer...is obligated to act with complete integrity in professional matters for each client or employer as a faithful agent; shall be honest and impartial, and shall serve the public, client and employer with devotion.

Remember, as a registered professional, while the engineer may report to and directly serve an owner or client, his/her ultimate responsibility is to the public. Specifically...

4733-35-03 Responsibility to the public.

The engineer...shall:

(A) Protect the safety, health and welfare of the public in the performance of professional duties. Should the case arise where the engineer...faces a situation where the safety, health and welfare of the public is not protected, the engineer...surveyor shall:

- (1) Sever the relationship with the employer or client;
- (2) Refuse to accept responsibility for the design, report or statement involved;
- (3) Notify the proper authority if, in his or her opinion, the situation is sufficiently important.

(B) Undertake to perform assignments only when the registrant's consulting support are qualified by training and experience in the specific technical fields involved. In the event a question arises as to the competence of an engineer or surveyor to perform an engineering or surveying assignment in a specific technical field of engineering...which cannot be otherwise resolved to the board's satisfaction, the board, either upon request of the engineer...or by its own volition, may require the engineer...to submit to an appropriate inquiry by or on behalf of the board;

(C) Be completely objective in any professional report, statement or testimony and shall include all relevant and pertinent information in the report, statement or testimony when the result of omission

would, or reasonably could, lead to a fallacious conclusion;

(D) Express an opinion as a technical or expert witness before any court, commission or other tribunal, only when it is founded upon adequate knowledge of the facts in issue, upon a background of technical competence in the subject matter, and upon honest conviction of the accuracy and propriety of his or her testimony.

The ultimate measure for an engineer practicing his/her discipline: take **no** action (by commission or omission) that would jeopardize the health, welfare and/or safety of the client, owner, tradesmen and/or (especially) the general public.

4733-35-04 Public statements and certifications.

(A) The engineer...will issue no statements, criticisms or arguments on engineering or surveying matters connected with public policy which are inspired or paid for by an interested party, or parties, unless the engineer...has prefaced his or her remarks by explicitly identifying himself or herself, by disclosing the identities of the party, or parties, on whose behalf the engineer...is speaking, and by revealing the existence of any pecuniary interest he or she may have in the instant matters.

(B) The engineer...will publicly express no opinion on an engineering...subject unless it is founded upon adequate knowledge of the facts in issue, upon a background of technical competence in the subject matter, and upon honest conviction of the accuracy and propriety of his or her testimony.

(C) The engineer...shall decline to sign and/or seal any form of certification, warranty, or guaranty that (1) relates to matters beyond his or her technical competence, (2) involves matters which are beyond the scope of services for which he or she was retained, or (3) relates to engineering...work for which he or she does not have personal professional knowledge and direct supervisory control and responsibility. "Certification" shall mean a statement signed and/or sealed by an engineer...representing that the engineering...services addressed therein have been performed, according to the engineer's...knowledge, information and belief, in accordance with commonly accepted procedures consistent with applicable standards of practice, and is not a guaranty or warranty, either expressed or implied.

As a registered engineer, no statements shall be made outside of one's area of expertise and no engineer shall affix his/her seal on any document that he/she does not have personal supervision and responsibility for.

4733-35-05 Conflict of interest.

(A) *The engineer...shall conscientiously avoid conflict of interest with the employer or client, but, when unavoidable, the engineer...shall forthwith disclose the circumstances to the employer or client.*

(B) *The engineer...shall promptly inform the client or employer of any business association, interests, or circumstances which could influence his or her judgment or the quality of services to the client or employer.*

(C) *The engineer...shall not accept compensation, financial or otherwise, from more than one party for services on the same project, or for services pertaining to the same project, unless the circumstances are fully disclosed to, and agreed to, by all interested parties or their duly authorized agents.*

(D) *The engineer...shall not solicit or accept financial or other valuable considerations from material or equipment suppliers for specifying their products.*

(E) *The engineer...shall not solicit or accept gratuities, directly or indirectly, from contractors, their agents or other parties dealing with his client or employer in connection with work for which he or she is responsible.*

(F) *As an elected, retained or employed public official, an engineer...(in the capacity as a public official) shall not review or approve work that was performed by himself, or under his direction, on behalf of another employer or client.*

4733-35-06 Solicitation of employment.

(A) *The engineer...shall not pay, solicit nor offer, directly or indirectly, any bribe or commission for professional employment with the exception of payment of the usual commission for securing salaried positions through licensed employment agencies.*

(B) *The engineer...shall seek professional employment on the basis of qualifications and competence for proper accomplishment of the work.*

(C) *The engineer...shall not falsify or permit misrepresentation of academic or professional qualifications and shall not misrepresent or exaggerate the degree of responsibility in or for the subject matter of prior assignments.*

(D) *Brochures or other presentations incident to the solicitation of employment shall not misrepresent pertinent facts concerning employers, employees, associates, joint-ventures, or past accomplishments with the intent and purpose of enhancing qualifications and work.*

4733-35-07 Improper conduct.

(A) ***The engineer...shall not sign and/or seal professional work for which he or she does not have personal professional knowledge and direct supervisory control and responsibility.*** This is interpreted by the board to mean that an engineer...shall not sign and/or seal professional work unless that work was prepared under his/her supervision and direction. The engineer...shall be involved in the project and must be closely involved in the preparation of the work product.

(B) *The engineer...shall not knowingly associate with, or permit the use of his or her name or firm name in, a business venture by any person or firm which he or she knows, or has reason to believe, is engaging in business or professional practices of a fraudulent or dishonest nature.*

(C) *If the engineer...has knowledge or reason to believe that another person or firm is guilty of violating any of the provisions of Chapter 4733 of the Revised Code, or any of these rules of professional conduct, he or she shall present this information to the board in writing.*

(D) *If a professional engineer...is found guilty of a felony or had his or her registration revoked or suspended by another jurisdiction, the professional engineer...shall notify the board in writing within sixty days.*

If nothing else, at a minimum as a PE, assume that your family, friends, clients and even your peers and competitors will learn of everything about the decisions you make. Then consider your choices accordingly.

And for those members that will not be obtaining professional registration in their careers, the above shows why a PE can be so driven in the performance of his/her duties and can also serve as a solid foundation to model one's own professional conduct by.

-Ronald K Bartley, PE, CPD, CPI



Through the pipes...

- If you need another reason to attend the monthly Chapter meetings, we have it. Starting with the October meeting, **a door prize will be given away to one lucky attendee.** Last month, Steve Ashpaw of Corporate Equipment was the lucky recipient of a cordless electric drill. Raffle tickets, at this writing, are just \$1 each or 6 chances for \$5. So make your plans, try your luck and maybe you'll be a double winner...of a door prize and the fellowship and wealth of information available to you at your Chapter meetings.

- The Society Office reminds all members that the **use of the term CIPE (Certified in Plumbing Engineering) is no longer permitted in any format.** Sorry, people, but it's CPD or nothing.

Other voices...

During this, the month of Veterans' Day, the following is offered:

THE FINAL INSPECTION

The Army Soldier stood and faced God,
Which must always come to pass.
He hoped his shoes were shining,
Just as brightly as his brass.

'Step forward now, Soldier,
How shall I deal with you?
Have you always turned the other cheek?
My Church have you been true?'

The soldier squared his shoulders and said,
'No, Lord, I guess I ain't.
Because those of us who carry guns,
Can't always be a saint.

I've had to work most Sundays,
And at times my talk was tough.
And sometimes I've been violent,
Because the world is awfully rough.

But, I never took a penny,
That wasn't mine to keep....
Though I worked a lot of overtime,
When the bills got just too steep.

And I never passed a cry for help,
Though at times I shook with fear.
And sometimes, God, forgive me,
I've wept unmanly tears.

I know I don't deserve a place,
Among the people here.
They never wanted me around,
Except to calm their fears.

If you've a place for me here,
Lord, It needn't be so grand.
I never expected or had too much,
But if you don't, I'll understand.

There was a silence all around the throne,
Where the saints had often trod.
As the Soldier waited quietly,
For the judgment of his God.

'Step forward now, you Soldier,
You've borne your burdens well.
Walk peacefully on Heaven's streets,
You've done your time in Hell.'

-Author unknown

Parting thought...

Let us not love in word or in tongue, but in deed
and in truth.

-1 John 3:18