

Charlotte Chapter

AMERICAN SOCIETY OF PLUMBING ENGINEERS

Local Chapters Are Not Authorized to Speak for the Society



Our Next Meeting Will Be on Friday

September 25th

11:00 - 1:00pm General Membership
Lunch & Technical Session
1:30 - 2:30 Facility Tour
2:30 Independent Adventure Activities
Check their website
at
US National Whitewater Center
500 Whitewater Center Parkway
Charlotte, NC 28214

COST: \$15 for lunch

Parking fee is waived for ASPE group

President's Thoughts

Greetings to all,

Welcome to the end of summer. I trust everyone enjoyed their summer vacations and had safe travels.

The latter part of 2009 is now upon us and our technical sessions will now begin for the 2009-2010 season. VP Technical Scott Steindler has arranged for us to start the season off with a bang as we will be meeting at the US National Whitewater Center on September 25, 2009. Please see the details within this newsletter regarding the starting time and directions.

Unfortunately, the main topic is still the struggling economy. Depending on which news source you trust, the economy has hit the lowest expected level and from this

point can only improve. Let's hope so. The dues waiver program is still in place so please inquire if you need assistance with your annual dues.

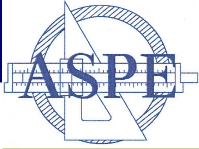
The 2009 ASPE Technical Symposium will be held in Dearborn, Michigan during the latter part of October. ASPE will provide a transportation stipend to those attending and meeting the qualifications. The qualifications are stated on page 5, as taken from the Region 3 ASPE newsletter by David Anelli.

I look forward to seeing all of you on September 25th at the Whitewater Center.

Best regards,
Todd Arnett
President

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VP Technical - Scott Steindler

Welcome back from our summer hiatus. I hope everybody enjoyed the Season and made some special memories with their families. I am very excited about the upcoming presentations that we have in store for you this year. So far we have scheduled an event at the U.S. National White-water Center, scheduled Jonathan Brooks from the NC Department of Labor to come and speak about elevator sump requirements, and have scheduled Mr. Paul Galvin from George Fischer to come and speak to us about water purification systems.

Even though we have been in hiatus my work has continued on. The National Education Committee has been working on CEU programs based upon speakers from previous Technical Symposi-ums, and the National Office is on the brink of releasing a 16 week educational program.

SSB 668 and you.

One fine summer day I was sitting in my office when I received a phone call from Mr. David Lewis with United Engineers. David has brought an important piece of Legislation to my attention. This NC Senate Bill is known as SSB 668. The Third Edition of SSB 668 was adopted on 7/18/07. This is a Bill with good intentions, but falls flat on its face when it comes to sound Engineering principles. Energy Conservation in State Buildings is supposedly an act to promote the conservation of energy and water use in State, University, and Community College buildings.

Sounds great huh? Well, there are a few problems contained in this Bill.

Section 143-135.77 Standard for major facilities; reports by agencies and the Department section (c) 1 states; "Building level owner's meters for electricity, natural gas, fuel oil, water, etc., in accordance with United States Department of Energy (DOE) guidelines issued under section 103 of the Energy Policy Act of 2005 shall be installed. The public agency and the designers shall compare metered data from the first 12 months of building operation with the energy design target(s) and report that performance to the State Construction Office.

No problem there, but wait there's more.

Section (c)2 If the average building energy or water consumption over the one year period following the date of beneficial occupancy is eighty-five percent (85%) or less than the performance goals established by these standards, the designer, owner agency, contractor, contract manager at risk, and commissioning agent shall investigate, determine the cause of the shortfall, and recommend corrections or modifications to meet performance goals.

The question that arises from this is "Who is going to pay for this?" We all know that buildings do not always perform to the Energy model due to unforeseen variances that arise after the design has taken place. Occupancy, resetting of thermostats, and extra equipment are always unforeseen future conditions. Will your insurance carrier cover additional expenses incurred?

Continued on page 3



VP Technical - Scott Steindler ...continued from page 2

As Plumbing Designers we are faced with new design criteria to promote sustainability. SSB 668 covers that as well.

Section 2.1(a)(3) Water systems - The installation of aerators in sink faucets that reduce the flow of water to a rate of no more the five-tenths gallons per minute (.5 g.p.m.); the installation of shower heads that reduce the flow of water to a rate of no more than one and five-tenths gallons per minute (1.5 g.p.m.); where appropriate, as determined by the Department of Administration, the resetting of water heaters to a water temperature of 120 degrees; the training of staff to monitor the use of irrigation systems, and to base the use of the system on the moisture content of the soil, and either the elimination of potable water for irrigation or the reduction of water consumption in the building by twenty percent (20%) based on water consumption for the 2002-2003 fiscal year.

Anyone see a problem here?

Let's start with the reduction of water temperature. We all know that Legionella is present almost all water systems. Traditionally we have generated water at temperatures at or above 135 degrees to alleviate this problem, but we are now directed to reduce that temperature to a nice, balmy 120 degrees. This is prime for breeding Legionella. OK, so now we have some bacteria, so what? Some of the low flow shower heads that we are also required to use operate by reducing the size of the water droplets to create a feeling of warmth by distributing smaller particles over a wider area. So now we have created an aerosol distribution system as well. To summarize, we are breeding bacteria and creating a method for aerosol transmission. Nice.

Now let's look at the thought process behind lowering water heater temperatures. Does lowering the temperature save energy? According to ASPE Research Report 88-01 Temperature Limits in Service Hot Water Systems, the answer is no. The calculations contained within the report show that the 110 degree system requires exactly the same BTU input as the 140 degree system! It should be noted that there is a greater loss from the equipment and piping of the 140 degree system, however, the proper selection of insulation will be the ultimate determinate as to whether energy is reduced or not.

SSB 668 contains other issues that are not of my area of expertise. If you wish to be provided with a copy of this Bill or the APE report please let me know and I will send them to you.

While I applaud our Legislature for attempting to take on Energy Conservation issues, I also would like to see the Engineering Community more involved in issues that may create a public safety hazard or involve Engineered Systems. The onus is on us to make ourselves known and available to work on these issues.

With this in mind I have started working as the Facilitator on the Advocacy Committee of the Charlotte Chapter of the USGBC. We all must do our part to represent our Industry and work within Organizations that are involved in policy making for our State. I would encourage all of you to somehow get involved.



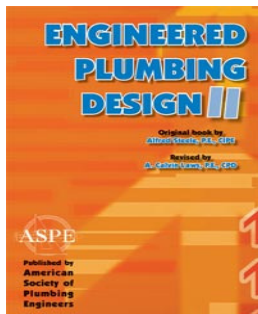
VP Education - George Reese

Summer has officially now passed us by, and you know what that means? It's ASPE time!!! Once again, it's time to update all with the latest educational presentations, news, and materials that's available for ASPE members.

What better way to start a new fiscal year, than having our very first ASPE meeting at the **US National Whitewater Center**. Because we wanted to make sure people could enjoy their selves and take full advantage of the opportunities at the US National Whitewater Center, this meeting was scheduled on a Friday rather than the typical Tuesday. We will tour the plant and afterwards, we will have the opportunity to go rafting at a discounted rate (depending on the amount of RSVPs that Scott Steindler received). Most of our ASPE meetings are fun but this is shaping out to be a real morale booster for all of our members and more specifically the ones who have unfortunate been terminated due of the economy. This months meeting should pump a lot of fun and life back into the Charlotte Chapter, and I'm looking forward to attending.

I hope to see many of you at this year's **2009 Plumbing Engineering and Contracting Technical Symposium**. It will be held in the Motor City (Detroit, Michigan), during the days of October 22nd thru the 25th. This will be one that you don't want to miss. Be sure to register online at www.ASPEuniversity.org or call: American Society of Plumbing Engineers (847)296-0002 for registration forms. For Hotel Registrations, contact Hyatt Regency Dearborn, 600 Town Center Drive, Dearborn, Michigan 48126 or phone them directly @ (313)593-1234 for reservations.

For those who can't make it, there are many different learning aids that ASPE puts together to help us further our education in the Plumbing field. Be sure to check the ASPE Pipeline for all future Webinars, eLearning courses and other learning material.



One great source for information is the REVISED, UPDATED, and PEER REVIEWED **Engineering Plumbing Design II**. Originally written by Alfred Steele, P.E., CIPE, with second edition in 1982, the book has been re-edited and fully revised by A. Calvin Laws, P.E., CPD, and has been further reviewed and edited by Frank G. Teebagy, P.E., CIPE, and Harold L. Olson, P.E., utilizing their comprehensive notes from their extensive classroom use of the original book. This twenty-two chapter book provides comprehensive information and details for the professional plumbing engineer and designer alike.

This great learning aid is just one of many great learning tools that ASPE has made available to members and non-members alike, from its ASPE National website, www.aspe.org and I encourage all to take advantage of these great learning tools.

This month should be a lot of fun and I look forward to seeing you all at the US National Whitewater Center.

George K. Reese III

VP Education



ASPE 2009 Technical Symposium Transportation Stipend

The Transportation Stipend is available ONLY to full registrants of the 2009 Technical Symposium and those who also are registered for stay at the Dearborn Hyatt Hotel for the complete three nights required to attend the full Symposium (Thursday, Friday, and Saturday).

Also, a minimum number of people must be in each vehicle to receive the stipend (see below; minimum for the smallest vehicle is four).

Also, a minimum number of people must be in each vehicle to receive the stipend (see below; minimum for the smallest vehicle is four).

To update the vehicle transportation stipend payment, you will receive:

\$150 per vehicle toward gas for those driving their own vehicle carrying no less than 4 people from their chapter area to the Symposium

\$200 per vehicle toward gas for those driving their own vehicle carrying no less than 6 people from their chapter area to the Symposium

\$300 per vehicle toward gas for those driving their own vehicle carrying 10 or more people from their chapter area to the Symposium

Up to \$500 toward the rental of a vehicle that must be able to hold 6 persons or more, plus \$300 per vehicle toward gas for those who carry a minimum of 6 people from their chapter area to the Symposium

Up to \$1,000 toward the rental of a vehicle that must be able to hold 10 persons or more, plus \$300 per vehicle toward gas for those who carry 10 people or more from their chapter area to the Symposium

[The number of people counted in the vehicle includes the driver.]

This vehicle transportation stipend is available to all attendees, including those in the East Michigan area.

To receive the stipend, you must bring the names and signatures of those in the vehicle to the ASPE office in the Dearborn Hyatt Hotel. Each individual will be checked to confirm that they are registered for the Symposium and that they are staying at the Hyatt Hotel for the full period of the Symposium. If you rented a vehicle, you also must provide proof of the rental. ASPE will arrange to have a check made out to you that you can pick up in the ASPE office at the end of the Symposium.

While the intent of this is to bring drive in traffic from the surrounding Detroit metropolitan area anyone in Region 3 willing to take us up on this offer would be eligible to cash in on this benefit.

VP Membership - Laura Pelchat

Welcome back after what I hope was a great summer for you. We have some new members that I'd like to introduce to you: **James McDaniel** with PACE, **Phillip Smith** with Jomar Group, and **Daniel Miller** with Charlotte Engineers.

Congratulations to **Robert Horne** for earning his CPD!

I hope to see you all at the meeting, I think it will be a great way to kick off the new year of Tech Sessions.



SEPTEMBER 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Dates to Remember

- September 25 - Charlotte Tech Session & Tour at US National Whitewater Rafting Center
- October 23-25 - 2009 Technical Symposium, Dearborn, Michigan
-



Congrats to our Members!

Anniversaries July, August, September

David Lewis - 32 years
 Ralph Ferrell, Jr - 26 years
 Bill Royster, Jr - 25 years
 Keith Connor - 24 years
 Danny Revilla - 21 years
 Robert Rees - 13 years
 Terry Miller - 13 years
 Scott Cathey - 7 years
 Daniel Flora - 3 years
 Richard Miller - 3 years
 Ilya Grossman - 3 years
 Mike Resetar - 3 years
 Brandon Henson - 2 years
 Adam Cross - 2 years
 Cheree Laney - 1 year
 Kirk Overcash - 1 year

Birthdays

JULY

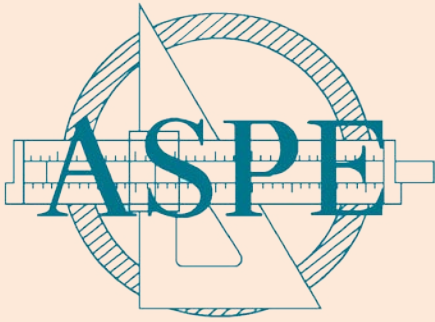
Daniel Flora - 7th
 Tony Brandon - 11th
 Bill Royster Jr - 13th
 Alan Culp - 15th
 Joyce Henderson - 25th
 Bill McElrath Jr - 27th

AUGUST

Jeffrey Eubanks - 15th
 Hugh Snyder Jr - 15th
 Wesley Settle - 25th

SEPTEMBER

Jeff Gordon - 1st
 Greg Goodson - 6th
 David Hood - 7th
 Kirk Overcash - 8th
 John Clark - 10th
 Robin McCombs - 19th
 Cheree Laney - 23rd
 Bill Batten - 26th
 Robert Elliott Jr - 29th
 Adam Cross - 30th



U.S. National Whitewater Center Meeting and Tour September 25th, 2009

Join the Charlotte Chapter of ASPE at our kick-off meeting at the U.S. National Whitewater Center on September 25th, 2009.

Our meeting will consist of a riverside luncheon and a facility tour.

11:00am – 1:00 pm lunch at the Adventure Pavilion

1:30pm-2:30pm Facility Tour

2:30pm - ? Independent Rafting Activities

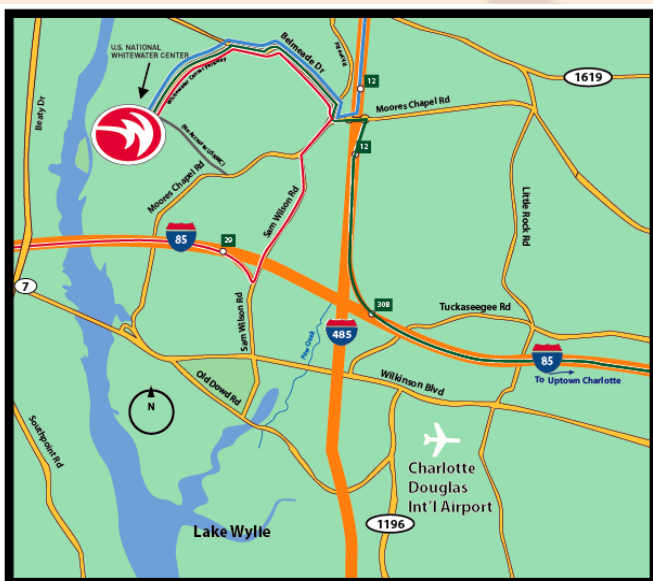
Our lunch menu is as follows:

Grilled Hamburgers & Chicken Breasts, Oat topped Kaiser Rolls, Baked Beans, Lettuce, Tomatoes, Onions & Pickles, American, Swiss & Pepper Jack Cheese, Mustard, Mayonnaise, Ketchup And Pasta Salad, Iced Tea, Water and Assorted Freshly Baked Cookies

The price to attend is \$15.00 for the meeting. Parking is free.

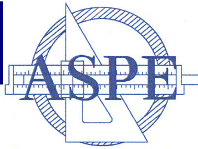
Those who wish to enjoy rafting after the meeting may do so at a reduce rate. The price is \$40 per person. We must have 35 confirmed rafters to receive this special reduced rate. Please RSVP to ssteindler@vanzelm.com to attend the meeting and indicate as to whether or not you wish to raft. Advanced payment is required for rafting activities. Please see the USNWC.org website for questions regarding rafting activities.

**Remit Payment to:
ASPE Charlotte c/o Scott Steindler
19901 W. Catawba Ave, Suite 205
Cornelius, NC 28031**



From the 485/85 intersection (west of uptown and near the airport), head northward on 485 (toward Statesville). Exit at Exit 12, Moores Chapel Rd. Take a left off of the exit, which will take you around two traffic circles. Take a right on Rhyne Rd., and an immediate left on to Belmeade Dr. Follow Belmeade Dr. for about 1 mile and look for the USNWC entrance on your left. For more information, please call 704.391.3900.

**Address:
U.S. National Whitewater Center
5000 Whitewater Center Parkway
Charlotte, NC 28214**



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2009 Plumbing Engineering and Contracting Technical Symposium



Dearborn Hyatt Regency Hotel, Michigan | October 22-25, 2009

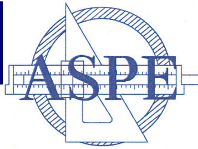
What You Get

- Thursday, October 22: The Plumbing Engineering and Contracting Product Exhibition. Free admission includes complimentary cookout-style dinner.
- Friday through Sunday, October 23-25: Three-hour comprehensive technical programs in five technical tracks over 2½ days — that's 25 educational events from which to choose.
- Handout material with the latest technical information.
- The opportunity for 15 educational contact hours — earn 15 PDHs or 1.5 CEUs.
- Complimentary continental breakfasts and breaks on Friday, Saturday, and Sunday.
- Complimentary lunch on Friday and Saturday.
- The chance to win one of the dozen new laptop computers to be given away Friday and Saturday.

»» 2009 Registration Form ««
 Register online at: www.ASPEuniversity.org
 or call: American Society of Plumbing Engineers
 847-296-0002
 for registration form

»» 2009 Hotel Registrations ««
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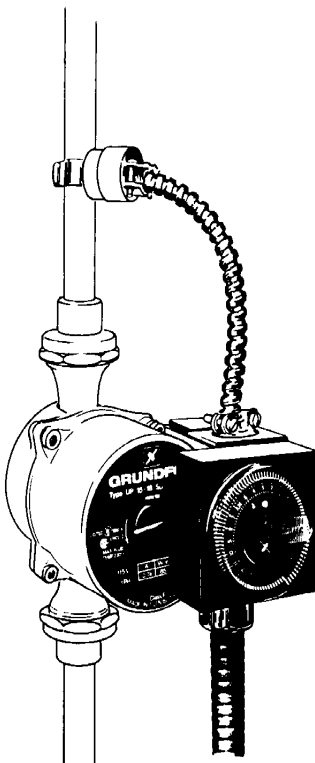
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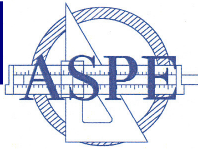
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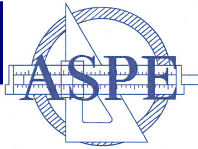
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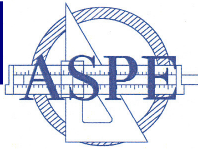
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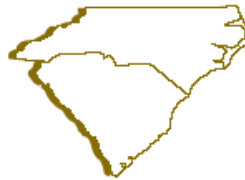
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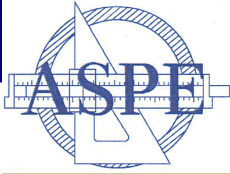
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(704)588-6262 relliott@bradfordsales.com

Triad Area - Jeff Gordon
(704)588-6262 jgordon@bradfordsales.com





Charlotte Chapter

American Society of Plumbing Engineers

Local Chapters Are Not Authorized to Speak for the Society

Charlotte Chapter of ASPE

PO Box 31843
Charlotte, NC
28231-1843

Phone: 704-501-1421
Fax: 704-527-0539
E-mail: lpelchat@smithandstevenson.com

Check Our Website for Updates

<http://www.aspecharlotte.org>

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