

# Chicago ASPENEWS

Chicago Chapter of the American Society of Plumbing Engineers  
Vol. 41, No. 2  
September, 2009

## General Meeting Thursday September 17, 2009

**Costa's**  
**340 South Halstead**  
**Chicago, Illinois**

FREE Valet Parking!



### AGENDA

5:30pm-6:30pm

Cash bar, cocktail hour

6:00pm-6:30pm

**Primer:** Don Johnson will give a brief history of ASPE Chicago's first 40 years and Tim Smith from ASPE Society will provide us with an update on the state of the Society.

6:30pm

**Dinner - (\$35 ASPE/CSI Members / \$40 Non-Members)**

Menu:

Appetizers:

Saganaki

Taramosalata (Fish Roe Spread)

Roasted Eggplant Spread

Entrees:

Avgolemeono (Greek lemon soup)

House Greek Salad

Family Style: Sword Fish and Beef K-Bob.

Dessert:

Galaktoboureko

(Custard filled phyllo dessert)

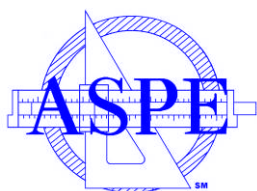
Coffee / Tea

**7:45pm** Program: CSI MasterFormat: say it once, correctly and it in the right place in the Documents. Randall Chappell, Associate Principal, Goettsch Partners

**RSVP as soon as possible to Frank Sanchez, VP Technical!**

- **Return the enclosed card for those of you getting this via US Mail**
- **Call** 847.316.9251
- **Fax:** 847.328.4550
- **Email** [Chicago.ASPE.RSVP@gmail.com](mailto:Chicago.ASPE.RSVP@gmail.com) **(NEW EMAIL ADDRESS!!)**

**Local Chapters are not authorized to speak for the Society**





## PRESIDENT'S MESSAGE

School is back in session. The weather will start getting cooler, not that it ever really warmed up all that much this summer, and the 2009-2010 ASPE season is about to start. Our first meeting of ASPE Chicago's 41<sup>st</sup> year will be September 17 at a location familiar to us, Costa's in Greek Town.

I made a typo in my article last month regarding the upcoming **Advanced Plumbing** class. The first class will be on **October 6**. However, the registration deadline is September 18. So, if you want to take this outstanding class, DON'T lollygag!! Sign up TODAY!! The class flyer is attached (or enclosed for you folks without valid email addresses). Also, you can see the Chicago Chapter website for the flyer - <http://aspe.org/Chicago/AdvancedCourseFlyer-Fall2009.pdf>. Class size is limited to the first 20 who register!!

As mentioned last month, the Chicago Chapter is giving away three free trips to the **ASPE Technical Symposium** in Dearborn, MI. The Symposium offers three days of workshops and seminars. And if you get there early enough on Thursday, you will be treated to an excellent product show. So, it will be well worth your while to get there early! You must reserve your hotel room by September 20. And the deadline for the early registration is October 15. After October 15, registration goes from \$595 all the way up to \$675. So, don't delay! Some links that can be helpful to you in your Symposium plans:

*Symposium Information:* [http://aspe.org/new/Conv\\_Symp/Symp2009.php](http://aspe.org/new/Conv_Symp/Symp2009.php)

*Symposium Schedule:* [http://aspe.org/new/Conv\\_Symp/2009/TechSym09\\_ProgramGlance.pdf](http://aspe.org/new/Conv_Symp/2009/TechSym09_ProgramGlance.pdf)

*Registration Form:* [http://aspe.org/new/Conv\\_Symp/2009/TechSym09\\_RegForm.pdf](http://aspe.org/new/Conv_Symp/2009/TechSym09_RegForm.pdf)

*Hotel Registration:* [http://aspe.org/new/Conv\\_Symp/2009/TechSym09\\_HousingForm.pdf](http://aspe.org/new/Conv_Symp/2009/TechSym09_HousingForm.pdf)

If you want to get in the drawing for the **free trips**, just call me at 847 316.9204 or email me at [jm@grummanbutkus.com](mailto:jm@grummanbutkus.com). And all you have to tell me is that you want to be in the drawing! Yes, it's THAT easy! And if this helps, only TWO people have contacted me so far. You MUST contact me by the end of the day on Tuesday September 15. And so it is said, this drawing is only open to ASPE Chicago members.... in good standing.

What the heck does "**in good standing**" MEAN? It means that you are a member of the Chapter AND your dues have been paid. A lot of folks over the past couple years have let their memberships lapse. This is not good for any of us! If you are one of these people, PLEASE contact our VP Membership Mark Mannarelli at [mmannarelli@esdesign.com](mailto:mmannarelli@esdesign.com) and he will help you. Are you an unfortunate victim of this bad economy (i.e., have you been laid off) and are going to have trouble paying your dues? Well, maybe we can help. ASPE is offering a **Hardship** membership where you will be able to maintain your membership but pay a much reduced fee until things pick up. If this is the boat you are in, you can contact Mark also.

As you heard before, ASPE has purchased a building. And headquarters has already moved!! ASPE's new contact info (the Society office) is:

**2980 S. River Rd.**

**Des Plaines, IL 60018**

**847 296.0002**

## CHAPTER OFFICERS

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### HISTORIAN

Donald Johnson

### WEBSITE

<http://www.aspe.org/Chicago>  
("C" is required)

Even though they have already moved in, there are STILL some building improvements to be made. The Chicago Chapter will be doing the September 50/50 raffle with the ASPE Building Fund as the benefactor. If you want to help ASPE fix up the building, you can fill out the donation form sent to you a couple months ago. Even if you only want to give \$10 or \$20, I am sure every dollar will be appreciated. Swing by to visit the ASPE office sometime. ASPE's staff will be excited to have company!!

I know times are tough, tougher for some of us than others. I am sure that there are a lot of questions in many people's heads that have never been considered before – when will the next project come in? When will these quotes become sales? When are we going to get these guys off the bench? I wish I had the answers. What I DO know, however, is that this WILL pass. We are all in this together. If you get a chance to help someone out with a lead or a spec, please think about it. If things are slow for you, take advantage of this time to clean, to make yourself more efficient, to learn something new. Everyone keep your chins up and have faith. We WILL get through this.

Thanks for your time and I hope that you will read the rest of this newsletter. Please join us at Costa's for our first meeting of the year on September 17.

Important Notice: After serving multiple terms as Affiliate Liaison, Dick Simms of Deery-Pardue & Assoc. has made the difficult decision to resign his position. For a man nearing retirement, I can sure appreciate him wanting to cut back on ASPE. Please join me in thanking Dick for his years of outstanding service to the Chapter. In response to this situation, I have appointed Mick Bradford of Miller Sales as the new Affiliate Liaison. I am confident Mick will do a great job as he either tries to fill Dick's shoes or just brings his own pair of shoes. Please join me in welcoming Mick as our new Affiliate Liaison.

**Jason McDonald, President**

[jsm@grummanbutkus.com](mailto:jsm@grummanbutkus.com); 847 316.9204

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## **Technical Report**

Welcome! I hope you all had a great summer. After a long absence, we return to Costa's in Greek Town. We arranged a fantastic meal for all; please refer to the first page for menu and costs.

### **September Primer:**

Did you know ASPE Chicago is over 40 years old? Don Johnson will open our session by briefly discussing the history of ASPE Chicago. Don has plenty of stories to tell and he will share a few with us.



As a continuation of our primer session, Tim Smith, our Region 5 Chair will provide us with an update on the state of ASPE Society. As you know, Society recently purchased a building and Tim will bring us up to date on Society's plans to restore it.

Note that ASPE Society has moved; their new address is,  
American Society of Plumbing Engineers  
2980 S. River Road  
Des Plaines, IL 60018

### **September Technical Program:**

For our feature presentation we will have a guest speaker from The Construction Specifications Institute. Randall Chappel, Associate Principal at Goettsch Partners will provide us with an overview of the latest CSI MasterFormat Specifications, talk about the history and importance of accurate and clear specifications. In addition, Randy will provide an overview of the recent changes related to Plumbing, Fire Protection and Medical Gases, he will discuss best-practice concepts, the use of section numbers and who is transitioning to the new edition.

Randy is Associate Principal at Goettsch Partners, and director of the firm's specifications and materials research. He is one of five MasterFormat Accredited Instructors (MAI) in Chicago, past president of the Chicago Chapter of the Construction Specifications Institute, and a registered professional with the city of Chicago. He is

past president of the Eastern Illinois Chapter of AIA. As a 1978 architecture graduate of the University of Illinois, he has been in practice as a structural engineer and architect for over thirty years.



Furthermore, don't forget that the **2009 Plumbing Engineering and Contracting Technical Symposium** is around the corner. Please contact any Board member for more information or stop at the front desk to pick up a flyer.

[http://aspe.org/new/Conv\\_Symp/Symp2009.php](http://aspe.org/new/Conv_Symp/Symp2009.php)

Please note that we extended an invitation to the Construction Specifications Institute membership to join us during our kick off meeting. Therefore, remember to RSVP as soon as possible!

Frank Sanchez, Vice President Technical  
fxs@grummanbutkus.com; 847 316.9251

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Hello again from your friendly V.P Membership,

It is a new year and a start of a great and prosperous year!

We have a few new members of the Chicago Chapter that I would like to introduce. The following new members are:

Mr. Mark J. D'Agostino with Wilo USA LLC, Melrose Park, IL  
Mr. Daniel Bennett with Great Lake Plumbing & Heating, Chicago, IL  
Guadalupe Cortes a student with IIT, who resides in Carol Stream, IL  
Mr. Paul Thomas, Indian Trail Plumbing, Chicago, IL



When you see them at a meeting say hello and let them, become familiar with you so they can feel comfortable with the Chicago Chapter.

In addition, ASPE National has a program "compassion waiver," program, which allows a member to maintain their membership over a three-month period and at the end of the third month they can renew at a discounted renewal rate. I will find out more on how the procedure works and have it posted in the next APSE monthly newsletter.

Mark Mannarelli, Vice President Membership  
mmannarelli@esdesign.com; 312 456.2354

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## Codes vs Standards

This will be an ongoing review of the above topic. In most cases a “Code” references a “Standard”. This article will discuss ANSI (American National Standards Institute) ANSI standards deal with safety and performance of several products in our industry. Several agencies reference ANSI standards like, CGA, ASME, NFGC to name a few.

These “Standards are specific tests for specific products. The ones I will review today are for Water Heaters & Boilers & Pool Heaters:

ANZI Z21.10.1 – Standard for residential water heaters, below 75,000 btu. This is very close to the D.O.E. test standards used for “ENERGY STAR”

ANZI Z21.10.3 – Standard for Commercial Water Heaters

ANZI Z21.13 – Standard for Boilers and Hot Water Supply Boilers

ANZI Z21.56 - Standard for Pool Water Heaters

Again, this will be an ongoing review, so keep reading your newsletter. This article will discuss the test procedures for ANZI Z21.10.3 – Commercial Water Heaters (> 75,000 btu), and ANZI Z21.13 Hot water supply boilers.

## THERMAL EFFICIENCY TEST PROCEDURES

**Setup of Equipment** – Unit is fired for an extended period of time to allow for the unit to reach to a steady state of operation. Laboratory test conditions are controlled.

**Water Temperatures** – Water heaters are set to discharge water at 160°F ± 5°F, commercial water supply boilers and heating boilers are set to operate at a discharge temperature of 180°F ± 2°F.

**Duration of Test** – Two tests are run. Each boiler test lasts for a one hour period, while the water heater test lasts for a half hour period. The results of both tests are averaged. The volume of gas burned, pounds of hot water produced and temperature rise of the water are carefully recorded. Efficiency is calculated from this data.

**Publication of Test Results** – Results for water heaters and boilers are published in the C.G.A. Directory of Certified Appliances and Accessories. Boilers list the actual Btu/hr output rating of the unit as tested. Water heaters list the recovery in gallons per hour at a 100°F temperature rise at the minimum efficiency level specified in the ANSI standard. The ANSI Standard for water heaters requires a minimum efficiency of 80%. The gallon per hour recovery is based on this 80% minimum, regardless of actual performance exceeding the minimum efficiency in the standard.

It is good to know that there are other standards/requirements that come into play, especially with the “Green” movement. LEED and the newly proposed ASHRAE/USGBC Standard 189.1 will most likely put new minimums on the equipment we deal with.

Confused yet?, More to follow

Rick Butler, Vice President Legislative  
rbutler@lochinvar.com; 815 477.9983



## **ANOTHER DECADE**

With summer winding down, we are ready to start our 41<sup>st</sup> season. Below is an enlightening and meaningful write-up which appeared in our 1979 Membership Directory.



### WHY A CAREER IN PLUMBING ENGINEERING?

*The Plumbing Engineer is the prime protector of the population's health; for, as no one else, the Plumbing Engineer is responsible for the delivery of potable water and the safe disposal of human and industrial wastes.*

*Today, the Plumbing Engineer is responsible for much more than the supply of potable water and the proper removal and treatment of human and industrial wastes. The field is challenging and varied, including everything from aeration ponds to zinc plating; from the design of residential systems to major hospitals and industrial plants, systems for water supply, waste water removal, compressed air, medical gases such as helium, oxygen, ethylene, nitrous oxide and nitrogen; swimming pools, decorative fountains, garbage disposal, vacuum cleaning systems, sprinklers for fire protection, carbon dioxide and halon systems for specialized fire protection, acid wastes, storm drainage and many many more.*

*Plumbing Engineers assist in determining the scope of a project and its anticipated cost. They design the many and varied plumbing systems, select suitable equipment, write specifications, aid in contractor selection and provide services to the owner before, during and after construction. The Plumbing Engineer is a primary and indispensable part of the design team.*

See you all at Costa's.

### **Don Johnson, Chapter Historian**

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#### **Upcoming Events:**

ASHRAE, [www.illinoisashrae.org](http://www.illinoisashrae.org)  
2009 Fall Golf Outing – Call (708) 540 - 4555  
Sept. 17 at St. Andrews Golf Club

Seminar: Water Systems Design & Water to Air Coil Selection  
Thursday, Oct. 15, B&G Little Red School House

Seminar: Air & Water Systems Design Applied to Building Design Project  
Thursday, Nov. 5, B&G Little Red School House

CSI ([www.csichicago.org](http://www.csichicago.org)) Chapter Meeting: 'LEED 2009 Changes Revealed'  
Tuesday, Sept. 22, 5:00 PM, Union League Club

USGBC, [www.usgbc-chicago.org](http://www.usgbc-chicago.org)

ACEEE's 5<sup>th</sup> National Conference on Energy Efficiency as a Resource

Sept. 27 – 29, The Drake Hotel

ACEEE's 5th National Conference on Energy Efficiency as a Resource will bring together industry leaders once again to discuss the latest developments in the use of energy efficiency as a key resource for meeting customer and utility system needs and for addressing other critical economic and environmental objectives.

Peter Wu, Corresponding Secretary  
[peterwu83@gmail.com](mailto:peterwu83@gmail.com)





# Who's There? Will You Answer the Knock of Opportunity?

## Are You Ready To Open Opportunity's Door?

Invest in your future?

Network with your peers and get the latest technical information?

Advance your professional skills?

Receive concise and relevant information on plumbing engineering and contracting topics?

Interact with plumbing engineers and contractors from around the country?

Build professional relationships that will benefit you now and throughout your professional life?

Tap into the plumbing engineering, designer, and contracting knowledge and information industry?

Watch your productivity soar?

Receive invaluable information and handouts?

Share your experiences with your peers?

Meet with proven problem solvers in the plumbing engineering and contracting industry?

Find new and improved design and operational methods?

Maximize your knowledge and education?

Listen and learn from innovative, exciting, and practicing engineers, designers, and contractors?

Answer the Knock and benefit from the premier educational and professional development event for plumbing engineers, designers, and contractors!

The University of ASPE and The University of PCA Jointly Present the



## 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](http://www.ASPEuniversity.org)  
or call: American Society of Plumbing Engineers  
847-296-0002  
for registration form

### »» 2009 Hotel Registrations ««

Contact Hyatt Regency Dearborn  
600 Town Center Drive • Dearborn, Michigan 48126  
313.593.1234. Ask for Reservations

Single/Double Occupancy: \$109 • Room Reservation Deadline — September 20, 2009

## 2009-2010 ASPE Chicago Meeting Schedule

Date	Primer	Technical	Location
September 17, 2009	ASPE Chicago 40 Year Review: Don Johnson, Charter Member. ASPE Society Update : Tim Smith, Metro Design.	CSI MasterFormat: Presented by Randall Chappel, Associate Principal at Goettsch Partners	Costa's 340 South Halsted Street Free Valet Parking
October 15, 2009	BIM Overview - 3D Coordination Walkthrough	New LEED Green Building Rating System	La Villa 3638 North Pulaski Free Parking
October 23-25, 2009	ASPE Technical Symposium		Dearborn, MI
November 19, 2009	Seismic Retrains, Hangers and Supports	<i>Commissioning for Plumbing Systems</i>	The Parthenon 314 S. Halsted - Free Valet Parking
December 17, 2009	Booster Night Special Entertainment		La Villa Restaurant & Pizzeria
January 21, 2010	Joint Meeting - City of Chicago Inspectors Open Forum		Suburbs Locatoin
February 18, 2010	Piping Identification	Legionella Prevention Systems	Alternate Venue or Parthenon
March 18, 2010	Piping for High-Purity Water Systems	RO and DI Water Sytems Applications	La Villa 3638 North Pulaski Free Parking
April 15, 2010	39 <sup>th</sup> Annual ASPE Chicago Product Show and Seminars		White Eagle - 6839 N Milwaukee Ave, Niles, IL 60714
May 20, 2010	Fire Wall Ratings and Firestopping	Fire Protection Basics: Occupancies, Definitions and Basic Layout	Alternate Venue or La Villa
June 18, 2010	Annual Golf Outing		Hilldale Golf Club 1625 Ardwick Drive Hoffman Estates
July 17, 2010	5 <sup>th</sup> Annual Kenneth G. Wentink Memorial Ride to the Rock		Glen Ellyn, IL to Starved Rock State Park