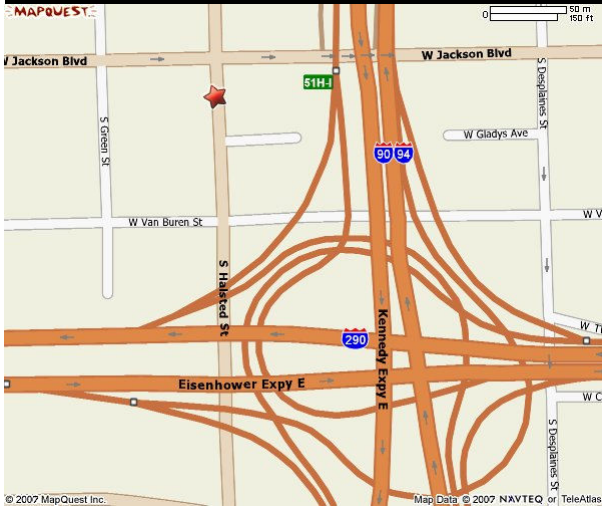


Chicago ASPENEWS



Chicago Regional Chapter of the American Society of Plumbing Engineers
Vol. 39, No. 3
October, 2007



General Meeting
Thursday October 18, 2007

The Parthenon (since 1968)
314 South Halsted
Chicago, Illinois
Free Valet Parking

Agenda

5:30pm-6:30pm

Cocktail Hour

6:00pm-6:30pm

Primer - Secondary Supports; Deery-Pardue & Associates

6:30pm

Dinner - \$25 Members / \$30 Non-Members

Beer and wine compliments of Deery-Pardue [our second Beer Laureate of the year!!]

Appetizers

- Saganaki, Taramosalata and Gyros

Dinner

- Greek salad
- Moussaka (eggplant w/meat sauce)
- Pastitsio (Baked macaroni w/ meat sauce)
- Dolmades (Grape leaves stuffed w/meat and rice, a Dick Simms favorite)

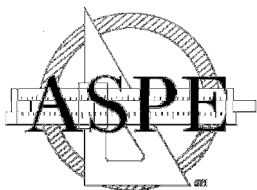
- Rotisserie Roasted Lamb (Cooked Sheep meat)

Dessert

- Baklava
- Galaktobourekos (fancy dessert really good)
- Coffee

7:45pm

Program: City of Chicago Plumbing Code Discussion;
Frank Bathauer, City of Chicago Chief Plumbing Inspector



RSVP as soon as possible! Return the enclosed card (for those of you getting this via US Mail) or contact Bruce Weiss - 312.960.8143; fax: 312.527.8143; email: bweiss@owpp.com

Local Chapters are not authorized to speak for the Society

PRESIDENT'S MESSAGE



WE'RE BACK!

Thanks to you, the September meeting was a huge success, and started our season off with a bang! Good technical sessions, good food, good company! Don't miss another meeting! Our October meeting is at The Parthenon in Greek Town (NOT the one in Greece). Look for more information in this newsletter. Don't forget to get your RSVP's to Bruce Weiss bweiss@owpp.com ASAP! You can win a FREE dinner, just as

Dave Wick did in September. We will have Frank Bathauer, the Chief Plumbing Inspector for the City of Chicago, as our guest speaker! Mr. Bathauer is a very busy man with many demands of his time; so, we are EXTREMELY lucky, thanks to Dan Fagan, to have him join us. We will be taking questions from the audience, and we will let Frank decide which will be answered, and in what order. This will allow us to focus on what he determines to be the most useful information that he can share with us, and therefore maximize the value of this truly rare event. **YOU DON'T WANT TO MISS THIS OPPORTUNITY! Mark your calendars now!**

ASPE TECHNICAL SYMPOSIUM, ATLANTA, GEORGIA, November 2-4

It's still not too late to register!! As everyone knows, the ASPE Technical Symposium is this November in Atlanta, Georgia. You can find registration information on the ASPE website www.aspe.org. You can also find the latest information about the symposium, here: http://www.aspe.org/new/Conv_Symp/2007/ASPE2007TechTympBroch.pdf

ASPE CHICAGO'S SYMPOSIUM TRIP WINNERS

We are proud to announce that the Chapter is giving 4 FREE trips to the Symposium! This includes airfare, symposium registration, and 3 nights of hotel! The winners are:

1. Phill Kroll of Metro Design
2. Angel Medina of Facility Group
3. Ben Rubach of Primera
4. Mark Mannarelli of Environmental Systems Design



CONGRATULATIONS!

REMEMBER, winners, you need to write an article after you return from the Symposium telling our Chapter about your experience, or sharing some of the technical expertise that you learned at the Symposium. Thanks to all who submitted letters for this drawing.

The legendary Joe Ficek will be presenting the famous Chicago Chapter CPD Exam Review Program at the Symposium. You can also view this program locally, for free (if enough of you express interest)! Thanks to Joe Ficek and Jason McDonald for putting this thing together. If you are planning to take the CPD exam **[November 16 or 17]** (and you should!), this is absolutely essential material for your success! Dan Fagan will also be presenting a Technical Symposium seminar on High Rise Systems!

THERE MAY STILL BE SOME SPONSORSHIP OPPORTUNITIES for our affiliates for this event. Forms and details are online and included here, too. This is a chance to be more involved in ASPE. There are also MANY more tangible benefits to sponsors. Check the ASPE web site for more info: <http://www.aspe.org/new/index.php>

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Donald Johnson

WEBSITE

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

(continued on page 3)

PRESIDENT'S MESSAGE (cont'd)

Membership – We're STILL the best! We are STILL the number one Chapter! Again, please make sure that you are using the current applications, when you invite a new member to join our crew. They can be found here: http://www.aspe.org/new/About_ASPE/aspe-membership.php

2007-2008 ASPE Chicago - We have plenty of good things planned for this year. Check out Bruce's preliminary schedule within this newsletter. Please take a look and **REMEMBER**, some of it is still "**TENTATIVE**" and subject to change. Do you have a program you want to see? Do you want to present? Do you have a good meeting location in mind? Please let us know. Contact our **VP Tech, Bruce Weiss (bweiss@owpp.com)** with any questions, comments or ideas for our technical presentations for the upcoming year. **AND you may want to thank him for his efforts to bring you the best programs possible.**

Are you LEED Certified? – LEED Certification is becoming more and more important in our plumbing world. While only a limited number of credits are directly related to plumbing, there is a vital need for more LEED-AP plumbing engineers and designers. We should all strive to earn our LEED Certification just as we should all work to become CPD's and PE's. This is YOUR organization. Show it some respect by helping to make it the best that it can be.

Are you involved in ASPE? – ASPE is an organization that consists of people like you. If you want more out of it, consider putting more into it. Would you like to serve on a committee? Or become a convention delegate? Maybe run for office? Or just help out with an event? Even finding new members is a great way for you improve our professional society. Let us know how you would like to become more involved. We will help you find a way.

Thanks for your support! See you October 18 at the Parthenon!

David DeBord, President

OCTOBER MEETING

Secondary supports - what does that mean to you? Garters for your socks? A good waistband for your underwear? I assure you it does have something to do with plumbing and our friends at Deery-Pardue & Associates will be telling us about HoldRite and the extensive line of secondary supports they manufacture during the primer of the upcoming meeting. Also, Deery-Pardue has graciously offered to become the October meeting Adult Beverage Laureate (beer and wine for free). So come early and grab a drink in find out what secondary supports really are and how to specify them on your next job for the benefit of the owner.



Chicago is unique in that it is one of only a handful of cities that possesses its own plumbing code. Even in a state that does not use a standard plumbing code, we are affected by a city that in many ways sets itself apart; however, as plumbing engineers, the City of Chicago Plumbing Code and its special qualities affects us almost every day.

We are lucky to have Mr. Frank Bathauer, Chief Plumbing Inspector for the City of Chicago, as our esteemed guest. Frank will provide a brief explanation and clarification on many of the portions of the code. He will also talk about how the code is evolving and adapting as materials and installation methods change throughout our industry. There will be a brief question and answer period following the initial presentation. **For this presentation we ask that questions be submitted in writing either at or before the meeting to the Vice President Technical, Bruce Weiss. This is being done to facilitate the meeting and get a response for all appropriate questions.**

In closing I would like to encourage anyone with the means or company support to attend the upcoming Technical Symposium at the beginning of November in Atlanta.

Bruce Weiss, Vice President Technical

SEPTEMBER MEETING RECAP

The primer was presented by Mike Vandenberg of Daugherty Sales who did an excellent job of presenting an overview of pump controls and control panels. He also provided an overview of NEMA ratings as related to control panels and brought along quite an assembly of samples to help with his explanations.

The main program was presented by our Web Master and fire pump guru Jim Moynihan of Chicago Technical Sales. His presentation on the basic electronics of fire pump controllers was very educational; the overview of the basic starting methods of fire pumps and their relative cost comparisons was very informative. The crowds' captivation was a good reflection of the quality presentation he provided.

The Chicago Chapter thanks both presenters for the time and effort in bringing quality.

Bruce Weiss, Vice President Technical

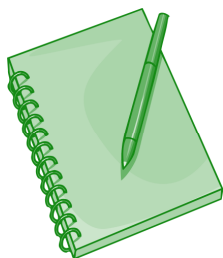
SEPTEMBER 2007 MEETING ATTENDANCE = 60 PEOPLE

The following list of individuals attended the September 2007 meeting of the ASPE Chicago Chapter. In accordance with ASPE Society policy, these individuals are entitled to 0.75 RU's towards the required 24 RU's needed every two years to maintain CPD registration. Meeting attendance is also recognized by the Illinois Department of Professional Regulation to count as 1 PDH towards the required 30 PDH's needed every two years to renew Professional Engineering licenses.

Sean Allard	Vince England	Peter Wu	Jodie Sherven
Julius Ballanco	Jerry Fields	Mark Loth	Dick Simms
Rick Butler	Bryan Fonseca	Jim Majerowicz	George Sobyra
Jeremy Cantor	Paul Gangloff	Brian Makenas	Ted Sohn
Mike Castellano	Albert Gehrke	Mark Mannarelli	Jeff St. Onge
Mike Cusack	Gabriel Gomez	Ed Martinez	Mark Stickney
Ray Cruz	Harry Gupta	Jason McDonald	George Swietczak
Ken Cutler	Brian Hank	Jim Moynihan	Bob Turk
Mike Cwanek	Herb Hymen	Tony Navarro	Mike Vandenberg
Natalia Dankanich	Bob Jackson	Steve Norbut	Don Ware
Robert Daugherty	E.J. Kedzie	Jennifer Ogawa	Harold Weil
Dave DeBord	Neil Kowalski	George Pagach	Bruce Weiss
Jamie Diamond	Frank Langer	Kerbie Reader	Dave Wick
James Dipping	Wingyin Lau	Kelly Ryan	Mel Withrow
Tony DiVito	Lindsey Lehman	Frank Sanchez	Dave Wolniak

This printing constitutes our record of who was in attendance. We apologize for any misspelling of names and ask that for future sign-ins please print legibly. Thank You!

A MESSAGE FROM THE ADMINISTRATIVE SECRETARY



It is great to see you all again! Welcome back to another year of ASPE. We made it through the first meeting of the year. The best way to stay in touch with new developments in the industry is to attend our meetings. We planned a great selection of meetings for this year. So, make sure you take advantage of them and keep the 3rd Thursday of each month open on your calendars. Congratulations to those members who showed interest in attending the 2007 ASPE Technical Symposium in Atlanta and won free trips to the Symposium. The lucky winners are: Phill Kroll at Metro Design, Mark Mannarelli at ESD, Angel Medina at Facility Group and Ben Rubach at Primera Chicago. This is an excellent opportunity to participate in the numerous classes that ASPE has to offer. Good luck in your future career goals. And I will see you all at Parthenon October 18, 2007.

Natalia Dankanich, Administrative Secretary

DON'T MISS THE ASPE TECHNICAL SYMPOSIUM!

Atlanta GA November 2-4, 2007 - I have been to these before and believe me; they are definitely worth your time and effort! They are a lot different from the conventions because all focus is put toward the educational aspect.

There are noteworthy speakers and many excellent technical sessions:

- **Plumbing 101**
- **Green Building Systems**
- **Special Systems/ Emerging Technologies**
- **Advanced Plumbing Technologies**
- **Fire Protection**
- **Medical Gases**

You can download the brochure here:

http://www.aspe.org/new/Conv_Symp/2007/ASPE2007TechTympBroch.pdf

Remember there are several ways to register. If you do nothing else this year, GET TO THIS EVENT! And register online NOW at http://www.aspe.org/new/Conv_Symp/conv-symp.php!

*** If you go to that website you will notice that Chicago Chapter is a Platinum Level Sponsor. So, let's pack the house!*

ASPE Society will sponsor a CPD Review Course. The course is available to any paid registrant of the Symposium, we had this class in Chicago in the past, it is a great review class, don't miss it. The class is scheduled for Saturday, November 3, 2007, 9:00am-5:30pm, and the instructor is our dear Ex-President Joe Ficek from Grumman/Butkus Associates.

Also, don't miss out on our local opportunity to meet Frank Bathauer, City of Chicago Chief Plumbing Inspector on October 18th. This guy is the "guru" and on the most wanted list (of speakers); so, don't miss this great opportunity to learn and talk to him.

Finally, I would like to thank ASPE Chicago Chapter for their support to Team IBD Kids (Refer to my previous article).

Frank Sanchez, Vice President Legislative

MEMBERSHIP REPORT

Well here we go again, another ASPE year. It was great to see several new faces at the September meeting. Let's keep up the great attendance! Speaking of new faces, here is a list of new members who joined up with our Chapter since our last meeting in May:

<i>Thomas Babcock</i>	<i>Elena Liokwmovich</i>	<i>Ryne Obenauf</i>	<i>Robert Serшон</i>
<i>Bradley Bates</i>	<i>Charles Loth</i>	<i>George Pagach</i>	<i>Qing Zhang</i>
<i>Chris Frauens</i>	<i>Danayan Lyaskov</i>	<i>Sean Rains</i>	<i>Michael Fong</i>
<i>Mark Karnatz</i>	<i>Steven Montgomery</i>	<i>Brett Scharpenter</i>	<i>Scott Brykalski</i>

Man, what a list!! If we do 1/3 of this every month we will be well over 400 in no time. Again, any existing member who had influence in getting our new members on board.....a big THANK YOU!!

Any membership issues you run across please contact me so I can help you.

Sorry, I have to say it:

GO CUBS GO GO CUBS GO

Hey Chicago, what do you say, Chicago ASPE is the biggest today!



Rick Butler, Vice President Membership



**ASPE WANTS YOUR
FEEDBACK FOR THE
2008 PRODUCT SHOW**

37TH ANNUAL ASPE CHICAGO CHAPTER PRODUCT SHOW

Mark your calendars!

**Thursday, April 17th, 2008
WHITE EAGLE RESTAURANT
6839 Milwaukee Avenue, Niles, Illinois**

Keep your eyes open for the full page **C O L O R** ad on the next Plumbing Systems & Design Magazine!

We had an outstanding show last year, excellent attendance and the best products in the industry. Also, we moved things around a little, for instance, we located the ASPE control tower to the center. We are always open to suggestions.

- Do you have any comments or suggestions on how to improve this show and increase traffic?
- Did you like your neighbor at our last show?
- Would you like to be part of the Product Show committee?
Please note that the first meeting will occur on the first week of December 2007. (Time and date TBD)

So far, I received very interesting ideas that I will consider. Some suggested providing a bus from downtown or from the plumber's union in order to increase foot traffic. Also, some people mentioned they will prefer to have a show every two years instead of on an annual basis, while maintaining our seminars and state approved CEUs year after year. This will obviously have a big financial impact on the chapter and we will have to study its feasibility.

Do you want to hear more about these ideas? Well, just take some time and drop me an email or give me a call, ASPE wants to HEAR what you have to say!

Frank Sanchez, Vice President Legislative/ Product Show Chairman

CORRESPONDING STUFF

Society of Fire Protection Engineers (SFPE) (www.chicagosfpe.org)

- ⇒ *2007 Firestop Symposium – A Chicago Perspective; From Specification to Inspection*
Tuesday October 9, 2007; The University Club of Chicago, 76 East Monroe Street, Chicago, IL
7:30am Continental Breakfast; Registration and Exhibition
8:30am–5pm Lectures, Presentations and Exhibits
Who should attend: Architects, Engineers, Contracting Professionals, Inspectors, Specifiers, Building Owners/Managers and Authorities Having Jurisdiction
- ⇒ *2007 Illinois Fire Safety Alliance Fire Prevention Week Luncheon*
Thursday October 11, 2007; White Eagle Banquets, 6839 North Milwaukee, Niles, IL
11:00 A.M. Social Hour – 12:00 P.M. Lunch
***Tickets are \$35 and \$45 after October 1st; go to www.chicagosfpe.org, Upcoming Events for complete reservation form.*

CSI Chicago

- ⇒ *9th Annual Chicago Architecture Conference and Product Show*
Tuesday, October 23, 2007; Drury Lane Conference Center; Oakbrook Terrace, IL
 - All day event with keynote address, seminar sessions, product show (90 + Exhibitors)
 - 15 Different Continuing Education Seminars
 - Professionals Can Earn up to 6 CLU's in Health, Safety and Welfare
 - Seminar Tracks in Building Envelope, Design, Legal/Business, Sustainability and Technical
 - Keynote Address: "Green Buildings and the Bottom Line - The 'New Reality' of Green Building" with Robert Cassidy, Editor of Building Design Construction

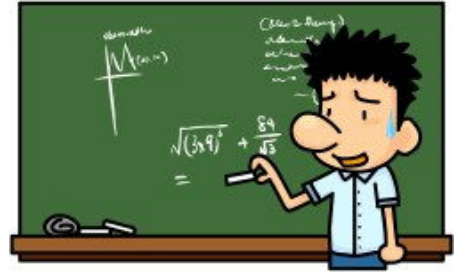
Jerry Fields, Corresponding Secretary

PLUMBING BASICS: HOW MUCH ENERGY DOES IT TAKE TO HEAT WATER?

All of the equations that we use for water heater calculations, are based on the principle of Conservation of Energy. That means that energy is transferred from one medium to another. For instance: from a heating element, to the water in a water heater.

So, how much energy does it take?

- 1 KW will provide 4.1 gallons of hot water per hour (GPH), at a 100 degree temperature rise [$4.1 \text{ GPH}/1 \text{ gal} \cdot 100^\circ\text{F} = 410$]
- 1 watt is approximately 3.41 BTU/h
- So, 1KW = 3,410 BTUH (approximately)
- 1000 BTU/h is approximately 293 W
- 1 BTUH will heat 1 POUND of water, 1 degree Fahrenheit



Here are some comparisons for a few different $\Delta T^\circ\text{F}$ (also referred to as “delta T’s), and the GPH that can be acquired for each KW of input.

GPH PER KW CALCULATOR			
factor "x"	/	$\Delta T^\circ\text{F}$	= GPH per KW
410	/	30	= 13.6666667
factor "x"	/	$\Delta T^\circ\text{F}$	= GPH per KW
410	/	80	= 5.125
factor "x"	/	$\Delta T^\circ\text{F}$	= GPH per KW
410	/	100	= 4.1

As you can see, the delta T is extremely important. You can put these numbers into a spreadsheet, and calculate for any delta T. Sometimes it is beneficial to compare calculations at different delta T’s to explore the design parameters that you need for a given application.

Here is a useful comparison for gas water heaters:

If we know the information in the “blue” boxes, we can calculate the “yellow” boxes:

BTU input	=	GPH	X	DELTA T	X	8.33 LB/GAL OF WATER
THERMAL EFFICIENCY						
98,000	=	100	X	100	X	8.33
				0.85		
87,684	=	100	X	100	X	8.33
				0.95		
70,147	=	100	X	80	X	8.33
				0.95		

This can be worked from the other side too:

BTU/HR	X	EFFIC.	/	(DELTA T)	X	8.33	=	(GPH)
100,000	X	0.85	/	100	X	8.33	=	102.0408163
BTU/HR	X	EFFIC.	/	(DELTA T)	X	8.33	=	(GPH)
90,000	X	0.95	/	100	X	8.33	=	102.6410564
BTU/HR	X	EFFIC.	/	(DELTA T)	X	8.33	=	(GPH)
98000	X	0.95	/	80	X	8.33	=	139.7058824

We can see that efficiency also has a great affect on our output. I hope that this is helpful for someone out there.

David DeBord, President

***The preceding is the first of what we hope are many articles that share some of the technical and design side of what we do as Plumbing Engineers. We welcome your comments regarding this new addition and we also welcome your own articles!! So, if there is something you think other Chicago Chapter members might find useful, please share that with us. Just contact Newsletter Editor Jason McDonald at jsm@grummanbutkus.com.*

2007-2008 ASPE Chicago Chapter Meeting Schedule

DATE	PRIMER	TECHNICAL	LOCATION
September 20	Plumbing Pump Controllers; <i>Mike Vandenberg, Daugherty Sales</i>	Fire Pump Controllers; <i>Jim Moynihan, Chicago Technical Sales/ Firetrol</i>	<i>LaVilla 3638 N Pulaski Chicago</i>
October 18	Secondary Supports; <i>Deery-Pardue & Associates</i>	Chicago Plumbing Code; <i>Frank Bathauer, Chicago Chief Plumbing Inspector</i>	<i>The Parthenon 314 S Halsted Chicago</i>
November 15	Pipe Joining Methods for Medical Gas Systems	Plumbing Design for Labs; <i>Russo Sales</i>	<i>LaVilla 3638 N Pulaski Chicago</i>
December 20	Booster Night; <i>Special Entertainment</i>		<i>The Parthenon 314 S Halsted Chicago</i>
January 17	General Interceptors; <i>Luczak Sales/ Jay R. Smith</i>	Grease Separators; <i>Deery-Pardue/ Rockford Separators</i>	<i>Rosewood [tentative]</i>
February 21	Pipe Insulation; <i>Tom Ronan, Added Sales/ IMCOA</i>	PEX Design and Standards; <i>Harold Miller, Miller Sales/ Zurn</i>	<i>TBD</i>
March 20	LEED Calculations; <i>Sloan Valve</i>	Grey Water and Water Recycling; <i>Metropolitan Industries</i>	<i>LaVilla 3638 N Pulaski Chicago</i>
April 17	Technical Seminars	39th Annual ASPE Chicago Product Show	<i>White Eagle 6839 Milwaukee Ave Niles</i>
May 15	Elections	Cast Iron Pipe and Standards; <i>Alan Thomas, CISPI</i>	<i>The Parthenon 314 S Halsted Chicago</i>
June 20	Annual ASPE Chicago Golf Outing		<i>Hilldale Golf Club 1625 Ardwick Drive Hoffman Estates</i>