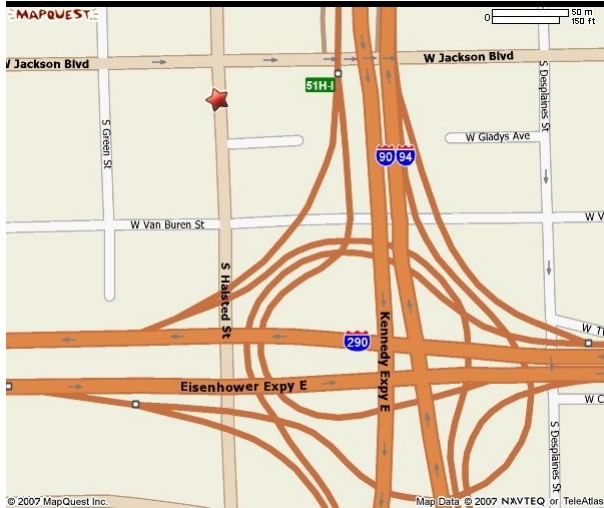


Chicago ASPENEWS



Chicago Chapter of the American Society of Plumbing Engineers
Vol. 39, No. 10
May, 2008



General Meeting
Thursday May 15, 2008

The Parthenon
314 South Halsted
Chicago, Illinois
Free Valet Parking

Agenda

5:30pm-6:30pm

Cocktail Hour (CASH BAR)

6:00pm-6:30pm

Elections (Board positions and ASPE Convention Delegates)

6:30pm

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

Menu

Appetizers

- Saganaki, Taramosalata and Gyros

Dinner

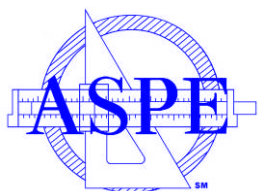
- Greek salad
- Moussaka (eggplant w/meat sauce)
- Pastitsio (Baked macaroni w/ meat sauce)
- Dolmades (Grape leaves stuffed w/meat and rice)
- Rotisserie Roasted Lamb (Cooked Sheep meat)

Dessert

- Baklava
- Galaktoboureko (fancy dessert, really good)
- Coffee

7:45pm

Technical Program - Cast Iron Pipe and Standards;
Alan Thomas, Cast Iron Soil Pipe Institute (CISPI)



RSVP as soon as possible to Bruce Weiss, VP Technical!

- Return the enclosed card for those of you getting this via US Mail
- Call 312.960.8143
- Fax 312.527.8143
- Email bweiss@owpp.com

Local Chapters are not authorized to speak for the Society

ASPE CHICAGO LOSES TWO LONG TIME FRIENDS

With regret, we note the passing of Mr. Kenneth G. Wentink, P.E., CPD and Mr. Leonard T. McCue.

Ken passed away on Sunday April 13, 2008 at age 61. Ken is survived by Gayle, his wife of 30 years, as well as a son, Timothy, and two daughters - Cathy and Jackie.

Ken was a charter member of the Chicago Chapter and dedicated to ASPE through all his years in the industry. He served on several Chapter Boards of Directors including a term as Chapter President. He also served on the Product Show and Golf Outing Committees as well as the Hospitality Committee at the 1984 ASPE Convention in Chicago.

Ken climbed the ladder to the Society level, also serving on Society Boards of Directors including two terms as the Society President. Ken exhibited true leadership skills when he was charged by the Society Board of Directors to replace the Society Executive Director during his term as President. Ken basically took on the responsibility of the day to day operations of Society while maintaining his day job. Ken recently finished a term as President of the ASPE Research Foundation.

Ken will be missed by his Chapter and Society colleagues.

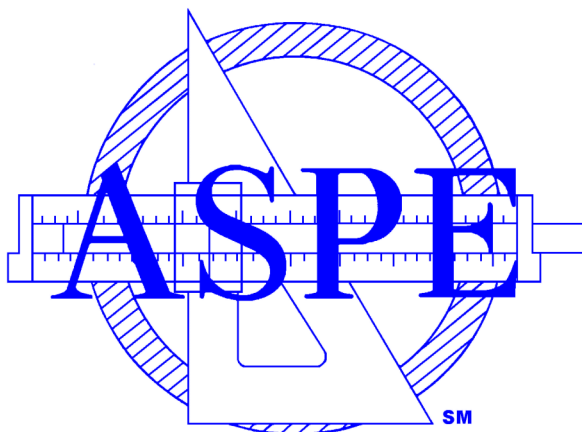
Len passed away on Sunday April 27, 2008 at age 70. He is survived by Gail, his wife, as well as a daughter, Patricia, and three sons - Michael, L. Thomas and Matthew. Len was a long time member of the Chicago Chapter, 35 years, and a huge supporter of the plumbing industry.

Len was a manufacturers' representative in the later part of his years, but started out as a licensed plumber and maintained his plumbers card through all the years of being a sales representative for Sloan Valve and various other companies.

Len served on the Chicago Chapter Board of Directors as well as on ASPE's Exhibitors Council, a Society level position, for several years. He was also very active with the Northwest Side Plumbers, Local Union 130 and ASSE, serving on their Board of Directors as well including a term as President.

Len was a true gentleman of our industry and will be missed by his Chapter and the Chicagoland plumbing community as a whole.

Respectfully, **Don Johnson, Chapter Historian**



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



PRESIDENT'S MESSAGE

THE PRODUCT SHOW IS GONE! GONE! GONE!

So far, the response has been overwhelmingly positive! Thanks to all of the presenters, exhibitors, visitors, workers, and everyone else who made the show a **HUGE** success. **As promised, it was the best show ever! BIGGER BETTER FASTER STRONGER! And next year will be even better!**

Special recognition goes to **Frank Sanchez** because he was the **Chairman** and did **MOST** of the work! Jason McDonald helped a lot too! And the other worker bees (in alphabetical order): Sean Allard, Mick Bradford, Bob Dahlmann, Art DeBaere, Jamie Diamond, George Pagach, Joe Ficek, Phill Kroll, Apple Lau, Mark Mannarelli, Natalia Dankanich, Dennis Richards, Bruce Weiss, Peter Wu and whomever else I failed to mention!

If you are an exhibitor, or potential exhibitor, you can see the value of our show. It's the best bang for your buck! I like the way more people than usual seemed to stick around to the end of the Show.

Mark your calendar and be there for the **2009** seminars and show. It will be even more **BIGGER BETTER FASTER STRONGER!** The Product Show is over for this year, but we are already thinking about next year. Frank Sanchez is the Product Show Chairman for next year too, so contact him if you have any questions or comments. Our show is clearly the best ticket for you, but you should also advertise in PS&D Magazine, because we all subscribe to it!

Our raffle proceeds from the Product Show will go to the ASPE Ride to the Rock/Leukemia Research Foundation!

**** Your BoD has decided that the rest of this year's raffles will go to the LRF in honor of our lost comrade, Ken Wentink. Look for more information about Ken within this newsletter.**

Thanks for your support!

There is only 1 meeting left this year: May 15. Then of course we still have the Golf Outing June 20. May 15 is **ELECTION NIGHT!!!** As far as we know, the current BoD will continue in their positions, but **you can run for a position if you so choose.** **We generally consider each term to be 2 years, but it is open, so toss your hat into the ring. Send us a note to get on the ballot. Nominations will NOT be taken from the floor; so, get that note to us pronto!**

*** LAST CHANCE * DEADLINE FOR SUBMISSION= May 9 ***

We will also vote on the 2008 Convention delegates. If you want to represent our Chapter in October, please see the note below.

RSVP = Répondez s'il vous plaît = Respond if you PLEASE!

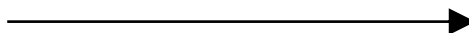
Keep those emails coming and win a free dinner! RSVP to: bweiss@owpp.com. He's on call, 24/7, waiting for your call/email/postcard/carrier pigeon/telegram/candy-gram/message in a bottle/whatever!

See you May 15th at the *Parthenon* at 314 S. Halsted! See other parts of this newsletter for additional information.

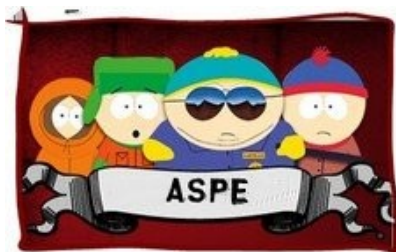
Plan Now to Attend the 2008 ASPE Convention and EPE

ASPE National is in the midst of planning an exciting Convention, which will be held Oct. 25-29, 2008, in Long Beach, CA. Intense educational sessions of the highest caliber and fun special events will be included. The Engineered Plumbing Exposition (EPE – aka product show) promises an array of exhibitors who will showcase the newest products in the industry. Attendees will have numerous opportunities to win prizes with our Expo-poly game. Visit www.aspe.org for more updates. **THIS SHOW IS ABOUT AS BIG AS THE CHICAGO AUTO SHOW AND IT IS ALREADY SOLD OUT OF EXHIBITION SPACE!**

(continued on page 4)



PRESIDENT'S MESSAGE (continued)



ALL THE KOOL KIDS ARE GOING!

Have you ever been to an ASPE Convention? It is a mind-expanding experience for sure. Or was that the 60's? ANYWAY, your Chicago Chapter will need delegates to attend the meetings, and to vote on various bylaw amendments, etc. Not to mention that this includes a gigantic product show, door prizes of laptops and vehicles, and seminars of the highest caliber. There is work to be done, but there will be some fun too, and lots of networking and learning opportunities.

***LAST CHANCE * DEADLINE FOR SUBMISSION= May 9 ***

If you would like to be considered as part of the entourage, please send us a note as to why you would like to be considered a candidate for a delegate position. Send that to our Administrative Secretary, Natalia Dankanich. Her email is nkd@grummanbutkus.com. We will vote on the candidates at our May ASPE meeting. Stay tuned for more details.

Special Offer for New Members – STILL AVAILABLE!

If you sign up to be an ASPE Member in the next few weeks, you will be eligible to receive the brand-new *Plumbing Engineering Design Handbook, Volume 3: Special Plumbing Systems*. As an added bonus, you also will receive *PEDH Volume 2* (2005 edition). Reference promo code **08PEDH** on your [new member application](#) to receive this special offer. (**Offer is good while supplies last.**)

David DeBord, President

GOLF OUTING 2008



This year's outing will be held on [June 20, 2008](#) at [Hilldale Country Club](#) in Hoffman Estates. We will start with a "Shot-Gun" tee-off at 8:30am (**please** note the time – this is the **start** time, **not** the "show-up" time). Coffee, juice and rolls will be served from 7:30am–8:30am in the snack shop (sponsored by [Luczak Sales](#)) and beverages will be served throughout the day. There will also be special displays and activities as you play the course. As in years past, lunch will be served between the 9th and 10th holes (sponsored by [Metropolitan Industries](#)). Shower and locker facilities are available in the clubhouse so you can freshen up after your round. Cocktails (cash bar) will begin at 4:00pm with a buffet style dinner to follow at 5:00pm.

Reservation forms were mailed out to all Affiliate members at the end of March. As you know, because of the "Shot-Gun" start, we are limited to 152 golfers; so when this limit is filled, we **cannot** accept any more golfers. Reservations will be accepted on a "First Come-First Served Basis". Each Manufacturer, Sales Rep., Supplier, etc. is limited to two (2) foursomes. Don't delay in returning the reservation form. You don't want to be left out!

Steve Triphahn, Golf Outing Chairman (224-293-6333)

2008 ASPE CHICAGO PRODUCT SHOW CEU'S DID YOU FORGET?

If you attended the Product Show on April 17 and failed to pick up your seminar CEU tickets, then come to the May meeting (**May 15 at The Parthenon**) as we will have a list of all attendees and the ASPE CEU tickets (small green ones) for each seminar. If you are a plumber or inspector and needed the State of Illinois CEU's, then you should have already sent that in as it is now past your deadline.





TECHNICAL REPORT

Elections

This month there will be no Primer. Instead we will be having elections. So, in true Chicago style, vote early and vote often.

Technical Presentation

Alan Thomas of the Cast Iron Soil and Pipe Institute (CISPI) will present the main technical presentation “[Cast Iron Pipe and Standards](#)”. I like to think of Alan as the hardest working man in the industry. In Chicago, cast iron is king (at least in the commercial markets); however, in other parts of the country life is not so easy for Alan and CISPI. Alan has been spanning the globe trying to keep people using cast iron instead of many of the other kinds of pipe. He has also been trying to make sure that cast iron pipe manufactured here and abroad all follow the same quality control and labeling requirements. Alan will discuss the advantages and disadvantages of cast iron piping as compared to other pipe materials. He will also speak briefly of the aforementioned quality issues that should be of concern to engineers specifying imported cast iron.

We look forward to having everyone out to the last regular meeting of the season before summer comes!

Is it time to change the name?

The annual Chicago Chapter Product Show has become so much more than just a product show now that we offer twelve high quality seminars for CEU credit. Four of those hours are Illinois Department of Public Health (IDPH) approved; so, the plumbers and inspectors can get continuing education credit (CEU's) for their state licenses. This takes extra effort that our Chapter does to assist the plumbing community and extend our Chapter beyond its normal ASPE chapter boundaries.

This year there was an extra emphasis on LEED and energy and water conservation. Seminars on solar water heating, rainwater recovery, water conserving plumbing fixtures and lastly plumbing codes and green building designs were all well attended.

The Chicago Chapter has been presenting high quality educational seminars for quite a few years now. In fact our seminars are of the same high quality as the seminars presented at the ASPE Technical Symposia and National Conventions.

[What if we rename the Product Show](#) the “Chicago Chapter of ASPE Product and Technical Seminars Show” or how about the “ASPE Chicago Engineered Plumbing Exposition”? Ooh, how about the “ASPE Chicago Symposium and Exposition”?? Although I have written a lot about the technical seminars as VP Technical and as a past Product Show Chairman, I know the most import part of the Product Show and why we all are there is the AFFILIATES who are the very lifeblood of the Show; so, the Show part MUST come first.

At the start of the Product Show, the great relationship we have with the White Eagle comes through with the appetizers they give us for being loyal customers. So thank them for the onion rings and meat balls that tide you over 'til the legendary Polish Buffet opens up.

If you were not at the Product Show, you missed the over 90 booths of product information and missed out on spending time with our Affiliates, the people behind the products. If you did attend, then thanks for visiting the numerous displays of product information and for spending time with the Affiliates of the Chicago Chapter (the best Affiliates anywhere). I want to applaud the exhibitors for showing such creativity and passion in designing their booths and presenting their products. I would also like to welcome all of our first-time exhibitors. We hope you had a great show and join us again next April!

In closing, as someone who understands what it takes to put on the “big” Show, I want to commend Frank Sanchez for doing a great job!

Open Call for Talent

I would like to extend all affiliates to contact me with any programs they have for the [2008-2009](#) meeting primers and technical programs. I have already been contacted by several affiliates; so, don't wait too long.

Bruce Weiss, Vice President Legislative (bweiss@owpp.com; 312-960-8143)

'See ya in '09 for
the 38th Annual
ASPE Chicago
Product Show



I HEARD THE 37TH ANNUAL PRODUCT SHOW WAS AMAZING!

Was it really? I didn't get to see it!



It takes uncountable hours to put together a show like this. I am so proud of it and I hope you are, too. As an Exhibitor, this is **YOUR show** and as attendees this is your opportunity to learn what's new in the industry as well as changes and improvements. We also provided great seminars and had radical changes in an effort to increase attendance to the show. Unfortunately, coordinating the show does not allow me to spend as much time as I would like on the floor; so, please don't be surprised if you did not see me at your booth.

There is only one way to improve **OUR** show and that is with your help and feedback. I am willing to work hard and I have a great team to do it; so, speak up! Send me your suggestions, comments and I will pay close attention to **all** of them. Sincerely, I can't say this enough.

- **Should we look for a new location for our show?** Closer to downtown perhaps? Closer to public transportation? Send me a few ideas and contact numbers.
- **How can we increase attendance?** Do you have ideas how to attract people to our show? We provided free lunch, advertising in the best magazines in the industry, free raffles to our seminar attendees and outstanding prizes. What else can we do?
- **Dinner?** Do you like dinner or should it be eliminated?
- **What about our great seminars?** Do you have suggestions regarding start/end times? Should we overlap them with the show hours? Should they start earlier? Later?
- **Show Layout?** Do you have comments on the new layout with ASPE at the center and an additional aisle?

It was a lot of work. However, it paid off because the Product Show ran smoothly. Exhibitors, please remember to respect your assigned space and provide me with a *complete* application. That is the only way I can assure you get what you need. We always try to accommodate last minute changes; but, I want to keep them to a minimum.

I would like to thank Jason Dr. McDonald for being an outstanding *unofficial* co-chair and kudos to D. *Presidente* DeBord for guiding me through the show logistics. Especial gratitude is extended to all hard working volunteers - George Pagach (AV Master), Mick Bradford, Harold Miller, Larry Harpster, Mike Ponx, Apple Lau (the faster ticket seller in the Midwest!), Peter Wu, Jamie Diamond (nice GPS huh?), Phill Kroll (Go Cubs! I wish you had given *me* those tickets!!), Mark Mannarelli, Don Johnson, Bob Dahlmann (at the control tower) Art DeBaere, Natalia Dankanich, Dennis Richards, Sean Allard (the most honest man in town), Joe "*Green mean bean*" Ficek (awesome LEED and Plumbing Codes seminar!), Julius Ballanco (created the *Green Plumbing Codes* seminar and then showed Joe the ropes so he could fill in for him while he was stranded at an airport), George Swietczak who took care of the State of Illinois Seminars and provided a great presentation!, Bruce Weiss and others.

We had outstanding door prizes [thanks to our generous exhibitors](#). They brought a variety items, from cubs, sox tickets to gift cards, iPod and more, kudos to the exhibitors for putting so much enthusiasm and dedication to our annual event. This was your show and we know it was a success!

Finally, thanks to my company, Grumman/Butkus Associates, for all the unconditional support they provide to ASPE and me – from allowing me flexibility at work and not turning the lights off while staying late working on the show, allowing the CPD review class to take place at our Evanston office as well as the printing and mailing required to make it happen. Thanks Dan.

What other plans do we have for [future shows](#)? Well, do you want a [free booth](#) at our 38th Annual Product Show? Stay tuned for more info; in the meantime, please hurry and send me your feedback.

Frank Sanchez, CPD - VP Legislative and Product Show Chairman



FROM THE ADMINISTRATIVE SECRETARY

Hello everyone. Summer is almost here and it is time again to have some fun in the sun. We just had our annual Product Show. I hope you took advantage of it. A lot of members worked very hard to make the best out of it. Strong Affiliate support (lots of booths), volunteers' help and good attendance combined made the Chicago Product Show the largest and best Chapter show of ASPE.

As you all know, the 2008 ASPE Convention will be held October 25-29 in Long Beach, CA. We have received a number of letters from members hoping to become delegates. As a delegate you will represent the Chicago Chapter at the Convention, attending meetings and voting on various bylaw amendments. There is also opportunity to earn some CEU's in seminars and to see all of the latest and greatest in the world of plumbing. You can still send me a note as to why you should be considered a candidate for a delegate position. Board will vote on the candidates at our May ASPE meeting. Even if you are not a delegate, I hope that you will make that trip in October. It will be worth your time and money!

If there is anything the Board can do to make your ASPE membership more valuable to you, please let us know!! I am glad to be part of the best chapter, Chicago ASPE.

Natalia Dankanich, Administrative Secretary



CORRESPONDING STUFF

ASHRAE, www.illinoisashrae.org

2008 ASHRAE Regional VI CRC

May 15-17, 2008

Englewood Resort and Spa; Itasca, Illinois

For information go to <http://crc.ashrae6.org>

Download free ASHRAE Energy Design Guides

Since ASHRAE introduced free downloads of the Advanced Energy Design Guide series (electronic version), the response has been overwhelming. So far, more than 34,000 Guides have been downloaded, more than half by ASHRAE members. The free downloads help give the building community the tools to achieve low-energy, environmentally responsible, high-performance buildings. The guides have provided 30 percent energy reduction guidance for small retail buildings, small office buildings and K-12 school buildings. To take advantage of this offer visit www.ashrae.org.

IFPA, www.ifpanet.org

Past Presidents Party

Tuesday May 13, 2008

Arlington Park Trackside Library Bar/Banquet Room; 2000 West Euclid; Arlington Heights, IL

6:00 pm; Cost: \$40; e-mail Bob Modica (rmodica@mcdanielfire.com) or fax your RSVP to 847-524-8262

ASPE, www.aspe.org/Chicago

Ride to the Rock Motorcycle Charity Road Rally

Saturday, July 12, 2008

To sign up or to help out, contact Bob Jackson at 312-670-8130 or rjackson@cosentini-il.com.

Thanks to all who participated in the ASPE Product Show. It was a great success!

Jerry Fields, Corresponding Secretary



FELLOW AFFILIATES,

A big THANKS to all who participated in this year's Product Show. Your generous door prize donations and products displayed in your booths have once again made our show a huge success.

Don't forget to reserve your foursomes for the golf outing on Friday June 20. If you need information please contact me and I will see you get it.

Thank You!!

Richard Simms, Affiliate Liaison

ASPE ANNIVERSARIES

Congratulations & Let's celebrate! The following people are invited for a FREE Dinner at Parthenon and will receive an anniversary pin at the May meeting for their dedication to ASPE and the Chicago Chapter:



<p>30 year members Mike Cwanek Val Petersons</p> <p>20 year members Robert Avino Brendan Bates John Bouse Dan Fagan Al Gehrke Randy Hubert Harry M. Hultgren Tony McGuire Ray Murray Carlos Vargas Larry Wilson</p>	<p>10 year members Sean Allard Tom Bell Dave Bernholdt Todd Cooper J. Francisco DeHoyos Brian Friedman Tom Gardner Len Garron Bill Johns Ken Kraus Steve Lichtman Kent Locke, Jr. John McAuliffe Mike McGann James Nowakowski John Obermaier Bob Pikula Mike Ponx Tom Ronan Steve Schaefer George Sobyra Kent Swanson Bob Weaver Bruce Weiss Michael Whiteside</p>
--	--

If you could, **please** let me know in advance if you plan on attending to receive your dinner and pin. My email is rick@luczak.com.

Rick Butler, Vice President Membership



AS I KNOW IT - PUMPS

Note that the spreadsheet shown here will be attached to the email version of this publication. For those of you still on the snail mail method, sorry! Get your email to us and get ALL of the perks!

"I should've been a plumber."
- Jiminy Cricket

Computers can make your calculations easier and trying different

methods can be helpful. Check out the digital version of this spreadsheet (attached to this email). Look at the data. You can change whatever you want. I have it set up so that you fill in the blue boxes. The rest of it is done for you. If you want to compare 2 different sets of data, you can copy and paste the fields next to or below these fields. If you don't like the design or calculation criteria you can change that too. Nothing is locked. It's yours to keep, delete, modify, or eat.

ALWAYS REMEMBER TO CHECK YOUR WORK, REGARDLESS OF HOW YOU GOT THE ANSWERS!

After you determine your pump requirement, you will still need to consult pump curves, and review your selection with a pump representative, to fine tune your selection. We always need to do the calculations ourselves before calling the reps.

MORAL OF THIS STORY: Get your email to us and get more out of ASPE-Chicago!

David DeBord, President

**DOKTOR DAVE'S "EZ DUZ IT" PUMP CALCULATOR 2008
BY: D. DeBord**

PROJ NAME - DATE

BOOSTER PUMP SYSTEM

	FEET	LB/FT	PSI	GPM
STATIC	472.42	0.43	204.56	200.00
END PRESS			30.00	
BFP LOSS				
MTR LOSS			3.00	
MOST REMOTE (FT)	700.00	0.03	21.00	
FITTINGS LOSS (EQ. FT.)	300.00	0.03	9.00	
TDH (TOTAL DYN. HEAD)			267.56	

AVAIL. PSI		30.00	
REQ'D PSI		267.56	
NET PSI AVAIL.		-237.56	

BOOST NEEDED			237.56	AT	200.00	GPM
				BP-1	42.18	BHP

BASIC WATER HP & BRAKE HP CALCULATOR

$$\text{WHP} = \frac{Q \times H}{3960}$$

Note: Equation for water at 68 Fahrenheit. Usually, temperature correction for water is negligible.



$$31.21 = \frac{200.00 \times 617.92}{3960.00} \text{ PSI}$$

$$\text{BHP} = \frac{\text{WHP}}{\text{EFFIC.}}$$

$$42.17 = \frac{31.21}{0.74}$$

***USE AT YOUR OWN RISK! NEITHER ASPE NOR THE AUTHOR ASSUME ANY LIABILITIES RELATED TO THE USE OF THIS PROGRAM.**

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 Mechanical Piping; <i>Jim Ness and Company</i>	Plumbing Design for Labs; <i>Mike Straughn, Water Saver Faucet Co. and Mick Bradford, Russo Sales</i>	<i>LaVilla 3638 N. Pulaski Chicago</i>
December 13		Booster Night; <i>Special Entertainment</i>	<i>The Parthenon 314 S Halsted Chicago</i>
January 17	General Interceptors; <i>Luczak Sales</i>	Grease Separators; <i>Bryce Russell, Rockford Separators/ Deery-Pardue</i>	<i>Stonewood Ale House 601 Mall Drive Schaumburg</i>
February 21	Pipe Insulation; <i>Jim Shannon, K-Flex Isolante; Bob Nolen, IMCOA and Tom Ronan, Added Sales</i>	PEX Design and Standards; <i>Frank Mazzaresse, Zum and Harold Miller, Miller Sales</i>	<i>LaVilla 3638 N. Pulaski Chicago</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	37th 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>
July 12		ASPE Ride to the Rock	 <i>Chicagoland to Starved Rock</i>