



Chicago ASPENEWS



Chicago Chapter of the American Society of Plumbing Engineers
Vol. 41, No. 6 January 2010

General Meeting

Thursday January 21, 2010

Parthenon
314 S Halsted
Chicago, IL 60661
<http://www.theparthenon.com/>
FREE Valet Parking!



AGENDA

5:30pm-6:30pm
6:30pm

Cash Bar — Cocktail Hour
Dinner: Cost—\$20.00 ASPE member / \$25.00 non-member

Menu:

Appetizers:
Saganaki
Tzatziki
Gyros

Dinner:
Egg Lemon Soup
Greek Salad
Chicken Riganati (Baked chicken with lemon and oregano)
Vegetarian Dolmades
Spinach-Cheese Pie
Vegetarian Pastitsio
Rice pilaf
Roasted potatoes

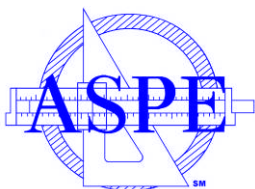
Dessert:
Baklava (Flaky layers of phyllo baked with nuts and honey)
Galaktoboureko (Vanilla custard nestled between layers of phyllo, baked with syrup)
Coffee

7:45pm

Program: "Reverse Osmosis (RO) and Deionized (DI) Water Applications" presented by Paul Galvin from Georg Fischer.

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

- **Return the enclosed card for those of you getting this via US Mail**
- **Phone** 847.316.9251
- **Fax:** 847.328.4550
- **Email** Chicago.ASPE.RSVP@gmail.com



Local Chapters are not authorized to speak for the Society

PRESIDENT'S MESSAGE

Happy New Year! As you open up the new **calendar** that Santa brought (or maybe the one that came with your last PS&D), make sure to mark the following dates for this semester's ASPE Chicago meetings:

January 21 - meeting	Tax Day)
February 18 - meeting	May 20 – meeting
March 18 - meeting	June 18 – Golf Outing
April 15 – Product Show (and	July 17 – Ride to the Rock

There, doesn't that feel good?!?!? Please plan on joining us each month as ASPE Chicago will bring you quality seminars, products and more. Don't miss a thing! And as always, there will be plenty of **CEU's** to help you maintain your CPD, PE, AIA, XYZ, FTD and more.

Thanks to everyone who came to **Booster Night** last month. I had a great time and based on the smiles, laughs.... AND the amount of alcohol consumed, I am guessing I'm not the only one! I hope that was a nice addition to your holiday season. Please make sure to look at the names of the boosters who sponsored that night. In case you didn't hold on to the booklet left at your table, a final list of all the boosters is inside this newsletter. Support those who support you!

Our annual **Product Show** is coming up this April. Soon, the Product Show Committee will start meeting. If you are interested in making your opinions heard, please contact Frank Sanchez at fxs@grummanbutkus.com. He's not only our VP Technical, he is ALSO our Product Show Chairman. He will definitely appreciate your input in hopes of making this show even bigger and better than the last.

ASPE (Society) will be having its **Open House** on Friday January 22 from 4pm-7pm. The new headquarters is located in Des Plaines at **2980 S. River Road**, apparently right next door to where the new casino will go. Please take a few minutes (or more) to swing by and see the new building. This will be a great time for you to meet and greet the Society Board of Directors.

For those who are like me, make sure to get your **CPD recertification** documents in by April 30! There is some simple math, addition, included in this recertification. Basically, you need to follow the directions and make sure your RU's (CEU's) add up to 24 or more. Go to ASPE's website to get the application - <http://aspe.org/CPDCertification>.

Several of you have already joined and we are looking for more. There is an **ASPE Chicago Chapter group** on www.LinkedIn.com. Please join and keep updated on ASPE Chicago meetings and news. Also, there is a Jobs tab where people can post job openings. Something kind of related that you should know about – I (Jason) am keeping an ASPE Chicago jobs spreadsheet at my desk. I am the only one with access to this and on it I have tabs for companies who are hiring as well as ASPE Chicago members who are looking for work. Please drop me a line at jsm@grummanbutkus.com if you are hiring, looking or know of someone looking. This is a small way where we are trying to help out our members in a difficult time.

I know 2009 was a trying year for many of us. But, there IS a light at the end of the tunnel and I know it is not a train! Best wishes to each of you and may peace and prosperity be the rules for your 2010.

Jason McDonald, President
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("C" is required)

TECHNICAL REPORT



DECEMBER BOOSTER NIGHT MEETING RECAP

Happy MMX!!! That is 2010 in Roman numbers. I hope you all had a fantastic end of year celebration; may the New Year bring you joy and success.

Did you know that 2010 will start and finish on a Friday? Hey, another reason to celebrate isn't it? This will be the "happy hour" year.

Also, did you notice that this month's meeting is only \$20? ASPE Chicago would like you to start the year right and, as usual; we are sponsoring part of the dinner cost. Therefore, please take advantage of this opportunity, come to the meeting and don't forget to RSVP. Reservations are very important so I can have an accurate head count.

The economy seems to be picking up and we are all optimistic and eager to support it. But what else will this year bring us? Well, only time will tell.

Proclaimed by the United Nations, 2010 is the International Year of Biodiversity, we will also have a Census, and my favorite event, The FIFA World Cup! For those that don't know, it is soccer. Yes, USA qualified and they are really good! No, Costa Rica did not, but they *could* be really good too (some day).

I definitely had a fantastic time during Booster Night and I really hope you did too! We had amazing food, plenty of drinks to quench our thirst and plenty of great people. Patti Vasquez made us laugh like no other. I am so glad we asked her to keep it PG13, can you imagine what would have happened otherwise? Oh my!

Year after year, our loyal affiliate members make donations to help us keep the cost down. The actual cost of Booster Night is a lot more than what we charge at the door and it is thanks to your memberships and their support that we were able to have another great event!

Please see Affiliate Liaison Mick Bradford's article for a complete list of all our boosters. Our slogan has been "Support those who support you", so please keep them in mind on your projects and if you have any questions I am sure they will be there to assist.

January Primer: None!

That is correct. I am going to cancel the primer sessions for a few months. The primer sessions do not carry CEUs because they are only 30 minutes long. This will allow you to socialize and interact with other engineers and manufacturer representatives prior to our presentation. I would like to hear from you. Do you miss them badly? Is this a good idea? Well, let's give it a try and see how it goes.

****** UPDATED TOPIC ******

January Technical Program: Reverse Osmosis (RO) and Deionized (DI) Water Applications

You will notice that I moved things around a bit. I made some changes to our January and February topics. Please see the end of this newsletter for our updated schedule.

For our January meeting we will have Paul Galvin and Tom Sixmish from Georg Fisher; they will illustrate reverse osmosis and deionized water systems and their applications. This presentation will review the history and process of water purification and some of their many applications. Also, they will provide us with some insight on the different types of materials available.

Paul G. Galvin is the Business Development Manager - Life Science/Institutional for GF Piping Systems LLC. Mr. Galvin started his professional career as a Plumbing/ Fire Protection designer with Camp, Dresser and McKee in Boston. For the past 23 years, he has been working "in the field" with engineering firms around the country, providing technical assistance on specification, layout and design of special waste piping systems, pH Neutralization systems and high purity piping systems.



He has been a member of the Boston Chapter ASPE for many years and is currently the Chapter's Administrative Secretary. Besides having presented at two ASPE Technical Symposiums, he has spoken before a majority of the ASPE Chapters over the last several years regarding polymer piping (special waste and high purity) and special waste neutralization system design. His article "Plumbing 101 - Special Waste Piping Systems" was featured in the May 2008 issue of PS&D magazine and was recently reprinted in the November 2009 issue of India Plumbing Today magazine.

Purified water is water from any source that is physically processed to remove impurities. Distilled water and deionized water have been the most common forms of purified water, but water can also be purified by other processes including reverse osmosis, carbon filtration, microporous filtration, ultrafiltration, ultraviolet oxidation, or electro dialysis. In recent decades, a combination of the above processes have come into use to produce water of such high purity that its trace contaminants are measured in parts per billion (ppb) or parts per trillion (ppt). Purified water has many uses, largely in science and engineering laboratories and industries, and is produced in a range of purities.

Reverse osmosis is similar to the membrane filtration treatment process. However there are key differences between reverse osmosis and filtration. The predominant removal mechanism in membrane filtration is straining, or size exclusion, so the process can theoretically achieve perfect exclusion of particles regardless of operational parameters such as influent pressure and concentration. RO (Reverse Osmosis), however, involves a diffusive mechanism so that separation efficiency is dependent on influent solute concentration, pressure and water flux rate. It works by using pressure to force a solution through a membrane, retaining the solute on one side and allowing the pure solvent to pass to the other side. This is the reverse of the normal osmosis process, which is the natural movement of solvent from an area of low solute concentration, through a membrane, to an area of high solute concentration when no external pressure is applied.

The process of osmosis through semipermeable membranes was first observed in 1748 by Jean Antoine Nollet. For the following 200 years, osmosis was only a phenomenon observed in the laboratory. In 1949 the University of California at Los Angeles (UCLA) first investigated desalination of seawater using semipermeable membranes. Researchers from both UCLA and the University of Florida successfully produced freshwater from seawater in the mid-1950s, but the flux was too low to be commercially viable. By the end of 2001, about 15,200 desalination plants were in operation or in the planning stages worldwide.

Frank Sanchez, CPD; Vice President Technical

fxs@grummanbutkus.com; 847 316.9251

Events:

- CHICAGO SFPE, www.chicagosfpe.org

Special Chapter Meeting with Underwrites Laboratories, Chicago Fire Department, and the University of Cincinnati to present the latest findings on with their research on firefighter safety. Monday January 11th, 2010. 11:30am sign in, Lunch at Noon. Location: The William Tell (Holiday Inn) 6201 W. Joliet Rd. Countryside, IL. \$30 for admission. RSVP by Jan. 7th with Jessica Dahl: jhubert-dahl@janusfiresystems.com



- CHICAGO CONSTRUCTION SPECIFICATION INSTITUTE www.csichicago.org

CSI Chapter Meeting/Program: Green Roof Design, Construction, and Maintenance.

Tuesday January 26th, 2010. 5:00pm sign in, 5:30 Dinner, 6:30 Program. Location: Union League Club, Crystal room, 65 W Jackson. \$45 for admission. Visit the CSI website to register.

Let me know if there are any organizations that you would like to hear from.

Peter Wu, Corresponding Secretary

peterwu83@gmail.com



THE PROUDUCT SHOW WILL BE HERE IN ONLY 3 MONTHS!

A new year means a new product show too and it will be here before we even know. Mark your Calendars for:

38th ANNUAL ASPE CHICAGO CHAPTER PRODUCT SHOW
Thursday, April 15th, 2010
WHITE EAGLE RESTAURANT
6839 Milwaukee Avenue, Niles, Illinois

Product Show Seminars

I am working on a list of potential technical seminars. What seminars would you like to see? Is there a particular topic you feel our membership should be aware of? Do you know of new codes, standards or products? As an exhibitor or manufacturer, if you have any suggestions please email me or call me before your competition does! Remember that all presentations must be nonproprietary, one hour long and allow for questions and answers.

Feedback and Possible Changes

- What do you think about dinner? Should we cancel it? Should we provide food at the floor and end the show earlier? (Note that I am contemplating cancelling the dinner this year in order to keep people in the show. We may provide appetizers throughout the event.)
- Do you know of other locations that can accommodate our show?
- What do you think about hosting the Product Show every two years instead of every year?
- How many shows do you attend per year and how much do you pay per booth at other events? How do they compare to the Chicago Chapter PS and technical seminars?
- What about the seminars time frame? Should we start the seminars earlier and finish the show at 7 pm?

Volunteers

I am in search of a web savvy person to study the possibility of online registration and create online surveys, call our past exhibitors to update their contact information, confirm show attendance, map our membership workplace location and use this to propose alternate Product Show locations.

Next Product Show Meeting

Date: Wednesday, January 13, 2010
Time: 6:30 PM
Location: La Villa Restaurant and Banquets

Note that our product show meetings are open to who are interested and our chapter will provide snacks and beverages.

Regards,

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



AFFILIATES—BOOSTER NIGHT

I want to thank all who participated as a sponsor for the ASPE Chicago Booster Night. Booster Night was a great success. Patti Vasquez was hilarious. Food was delicious and it was great to catch up with everyone.

Anvil International
Bornquist, Inc.
Cast Iron Soil Pipe Institute
Copper Development Association Inc.
Culligan
Daugherty Sales
Derry-Pardue & Associates
Froet Industries, LLC
FTI Pumps and Controls
Guardian Equipment
HOLDRITE
Inland Sales Group, Inc.
Kamco Representatives, Inc.
Kast Marketing, Inc.
Lochinvar

Luczak Sales, Inc.
Mid-Continent Marketing
Midwest Boiler & Draft, LLC
MIFAB
Miller Sales
Orion Acid Waste Pipe
Orr Protection Systems
R.C. Sales & Services, LLC
Repco
Sershon & Associates
Sobyra & Zeman Sales
Symmons
Toto
Victaulic
Viega

Now we turn our attention to the upcoming Product Show. If you have any suggestions/comments on the Product Show, look for the dates for the Product Show committee meetings or drop me an e-mail. I'll be happy to bring up to the committee when we meet. We want everyone to have a successful show and are exploring ways for it to be beneficial for everyone.

Mick Bradford, Affiliate Liaison

mick@millersales.com; 630 688.2635

Happy New Year to All!

Man, what an excellent Booster Night Party! Thanks to Frank Sanchez for setting up, and MOST importantly, thanks to all the affiliates who supported the night with their donations. One thing I learned is the difference between a goat and a sheep...



Green Seminar

Plumbing Contractors Association of Chicago and Cook County is having another Green Seminar. Topics: "Water Harvesting in Commercial and Institutional Applications", along with "Lead Poisoning Prevention".

All members of ASPE are invited, but they need to know if you are going to attend. Please Email me @ rbutler@lochinvar.com a week before the event to let me know you are attending.

Date: Thursday, January 21

Time: 10:00am – 1:00pm

Location: Best Western Hillside (Just north of I-290 between Wolf & Mannheim, a former Holiday Inn)

Rick Butler, Vice President Legislative

rbutler@lochinvar.com; 815 477.9983



Hello again from your friendly V.P Membership,

I would like to wish the Chicago Chapter a Happy New Year in 2010. Chicago is still the largest Chapter in the ASPE organization. I would like to thank Frank Sanchez for making the Booster night a great success along with all our devoted affiliates. I have heard nothing but good things about the meeting. I apologize for missing such a great time and socializing with my fellow members unfortunately (I was vacationing in the great state of Mexico).

Remember when you see a person you do not know at a monthly meeting introduce yourself, say hello and help them feel welcome with the Chicago Chapter. Again, if any one that you know needs help with their dues renewal 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.

Please let us help you in these rough times. This is what we (CHICAGO) are about—HELPING EACH OTHER!

Mark Mannarelli, Vice President Membership
mmannarelli@esdesign.com; 312.456.2354

GREETINGS FROM YOUR ADMINISTRATIVE SECRETARY!

Best wishes for the Holiday Season and a Happy New Year to all of you! I hope you had a great time at our annual ASPE holiday party and enjoyed good food and great entertainment. We did not do a 50/50 raffle, but a free dinner went to Herb Hymen (retired). Congratulations, Herb! Once again, may this new year bring for you the promise of brighter and happier days ahead. Have great holidays everyone!



Natalia Dankanich, Administrative Secretary
nkd@grummanbutkus.com; 847 316.9208

The 2009 ASPE Chicago Symposium **A review by ASPE Chicago delegate Bob Dahlmann**

The organizers did an excellent job. Actually arriving at the hotel was a challenge due to road construction in the area. Being only about 1,000 feet from the hotel, seeing the lamps in the room windows, and still being able to prove the old adage: "You can't get there from here" was interesting to say the least. But once I arrived, the facilities were great.

The Technical Sessions were excellent. I continue to learn something new at these Sessions even though my many years of experience have put a lot of "snow on my roof." There are always topics offered that teach something new or offer a review of something we think we know. The seminars on medical gas systems had an interesting approach—the operator of a large medical gas system gave his opinions and findings on what works and what doesn't. He also offered some insights on new equipment that is putting larger-than-expected demands on the medical gas systems and should be incorporated in our designs. The LEED sessions offered information on the new version of LEED that we will all be exposed to eventually, as well as information on new requirements for renewing the LEED-AP accreditation. Although I had not worked on a true residential project, I attended the sessions on Residential Fire Protection Systems to learn something new. When I returned to the office, we got a new project that is being designed to NFPA 13R, using the information that I obtained at the Session.

As always is the case, if you did not or could not attend, you missed out on a lot of information that you could use to make yourself a better engineer and/or a more marketable engineer. Start saving and making plans so you can attend the 2010 Convention in Philadelphia. I know I am.

Bob Dahlmann, Delegate

2009-2010 ASPE Chicago Meeting Schedule

Date	Primer	Technical	Location
September 17, 2009	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 Coordi- nation Walkthrough - CAD- WORKS	New LEED Green Building Rating System - David E. Debord, Envi- ronmental Systems Design	La Villa 3638 North Pu- laski Free Parking
October 23-25, 2009	ASPE Technical Symposium		Dearborn, MI
November 19, 2009	Seismic Restraints, Hangers and Supports by Tolco	Commissioning for Plumbing Systems - John Villani, Grum- man/Butkus Associates	The Parthenon 314 S. Hal- sted - Free Valet Parking
December 17, 2009	Booster Night Special Entertainment		La Villa Restaurant & Piz- zeria
January 21, 2010 Updated!	"Reverse Osmosis (RO) and Deionized (DI) Water Applications" presented by Paul Galvin of Georg Fisher		The Parthenon 314 S. Halsted - Free Valet Park- ing
February 18, 2010	"Regional Water Supply Planning Group Water Conser- vation Ordinance" presented by Hala A. Ahmed, AICP from Chicago Metropolitan Agency for Planning (CMAP)		La Villa Restaurant & Piz- zeria
March 18, 2010	Piping Identification by Kolbi Pipe Marker Co.	Legionella Control System by Steve Schira of Liquitech	La Villa Restaurant & Piz- zeria
April 15, 2010	39 th Annual ASPE Chicago Product Show and Seminars		White Eagle - 6839 N Mil- waukee Ave, Niles, IL 60714
May 20, 2010	Fire Wall Ratings and Firestopping	Fire Protection Basics: Occu- pancies, Definitions and Basic Layout	Alternate Venue or Parthe- non
June 18, 2010	Annual Golf Outing		Hilldale Golf Club 1625 Ardwick Drive Hoffman Estates
July 17, 2010	5 th Annual Kenneth G. Wentink Memorial Ride to the Rock		Glen Ellyn, IL to Starved Rock State Park