



Chicago ASPENews



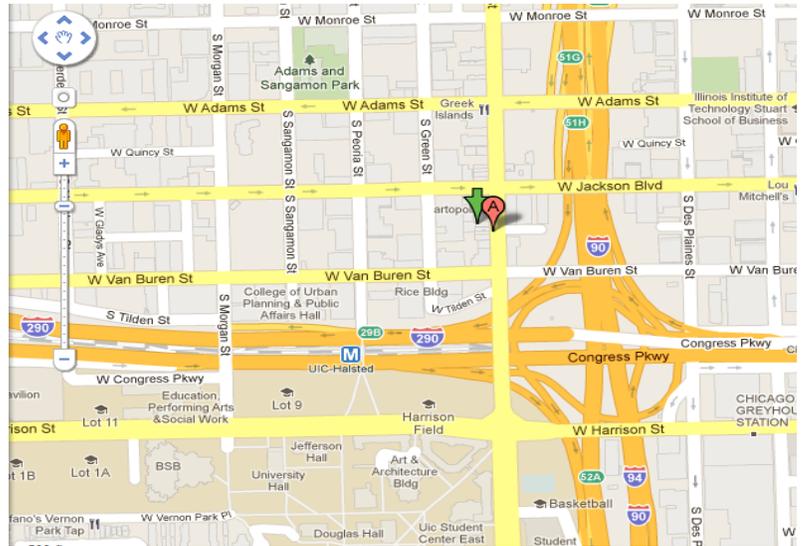
Chicago Regional Chapter of the American Society of Plumbing Engineers
Vol. 43, No. 2
September, 2011



Chicago Chapter General Meeting Thursday September 15, 2011




The Parthenon
314 S. Halsted Street
Chicago, IL 60661



FREE Valet Parking!

AGENDA

- 5:30pm Cocktail Hour, sponsored by [SyncoFlo](#)
- 6:30pm Dinner, (\$25 ASPE Members with RSVP/\$30 Non-Members and Walk-ins)
- 7:45pm "The 12 Myths of VFD Booster Systems" presented by Richard Hanson, Owner and CEO of SyncoFlo; represented by FTI Pumps and Controls

RSVP as soon as possible to Rick Butler, VP Technical!

- ⇒ Return the enclosed card for those of you getting this via US Mail
- ⇒ Call: 224 238.8515
- ⇒ Fax: 815 477.9984
- ⇒ Email: Chicago.ASPE.RSVP@gmail.com

MENU

Appetizers:

- Saganaki,
- Skordalia (pureed Potatoes w/Garlic)
- Egg Lemon Soup

Dinner:

- Greek Salad
- Vegetarian Moussaka (eggplant w/béchamel sauce)
- Pastitsio (baked macaroni w/ meat sauce)
- Dolmades (stuffed grape leaves)
- Athenian Chicken
- Rice Pilaf
- String Beans

Dessert:

- Baklava
- Galaktoboureko (Vanilla Custard)
- Coffee

Local Chapters are not authorized to speak for the Society



PRESIDENT'S MESSAGE

The kids are back in school, summer is reaching an end, the weather is getting cooler and ASPE Chicago 2011-2012 Technical Session is about to start! This will be a great year. There are solid technical presentations ahead, one of the best plumbing product shows in the area and outstanding networking opportunities during our regular meetings. Our first meeting for the year will be September 15 at a favorite location for all of us, The Parthenon Restaurant in Greek Town, opal!

"He that drinks his cider alone, let him catch his horse alone", Benjamin Franklin. One of the most important aspects of ASPE is the networking opportunities; it provides us a sense of unity and belonging. At the same time, we receive great education and get firsthand information on industry and technology updates. These are just a few of the benefits of your ASPE Society and we thank you for believing in this ideal.

"I should've been a plumber..." Benjamin Franklin. Well, maybe he didn't say those words "exactly". However, Benjamin Franklin supported and promoted do-good organizations, including a lending library, fire brigade, and night watchmen corps, and later a hospital, militia, and college. If he was still around, I have absolutely no doubt that he would be an active ASPE member, for he would've seen the VALUE of our organization.

We are still sailing on turbulent waters, the economy is slowly improving and Society is losing members, and Chicago is not immune to these troubles. This is why one of our high priorities this year will be membership retention. Please let us know what ASPE means to you. What type of technical presentations would you like to see? Do you have a meeting location in mind? How can we improve? We are here to help, send us an email or give us a call at any time.

Our by-laws are clear that if you let your membership expire it will be revoked the very next day! That's some scary news for some! This is why, Tony Navarro, Vice-president Membership, will be making a few phone calls. We understand you have a busy schedule and we will be brief. However, this is also a great opportunity to let us know what you want from ASPE. Please speak your mind and let us know how we can better serve you.

FREE Trips to the Symposium

Would you like to attend the upcoming ASPE Symposium...for FREE? As in previous years, ASPE Chicago Chapter will be giving away three free trips to the upcoming 2011 ASPE Technical Symposium (Oct. 27- 30, 2011) in sunny Orlando, FL. These trips will include symposium registration, travel and lodging.

The 2011 ASPE Technical Symposium will be at the Buena Vista Palace Hotel, located INSIDE the Walt Disney World Resort. Please take advantage of this great opportunity and make it a working vacation by bring your family along!



Register online or by mail: <https://aspe.org/2011TechReg>
Hotel: <http://www.buonavistapalace.com/>
Or just scan the QR (quick response code) on the left



Please send us a brief description explaining why this is important for you, what classes would you like to attend and you may be selected as one of the free trip winners to the Symposium. The deadline is Monday September 12, 2011, and the odds are pretty good for you right now, because I have received only two applications. If you win one of these trips, you will be required to write an article for the newsletter telling about your experience at the Symposium.

That's all for now my friends. Please make sure you have September 15 marked on your calendar, because we will start the 2011-2012 ASPE Chicago Technical Season. I hope to see you all there!

Frank Sanchez, President
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TECHNICALLY SPEAKING

Let's get started! The first meeting of the year will be at the Parthenon, an old time favorite. Greek food, Greek Hospitality, Greek Fun; a win win for all! WE will have a variety a fine Greek food, see the menu on the cover page.

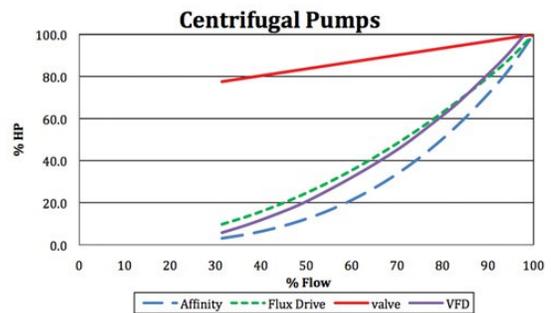
September Meeting Technical Presentation

"The 12 Myths of VFD Pumping", by Richard Hanson, owner and CEO of SyncroFlo

Richard currently helps develop the Commercial Building Trades marketing initiatives and helps with strategic business planning for SyncroFlo. Richard is a 1989 engineering graduate of Georgia Tech. He has worked in the plumbing industry all his adult life as a salesman, marketer, designer, industrial engineer, computer programmer and manager. He was a sales rep for SyncroFlo, Watts Industries, and Raychem/Tyco prior to joining SyncroFlo in 1995. SyncroFlo has been in the pre-assembled pumping market since the 1960's.

This presentation will cover the following topics:

- "Hunter's Curve" is outdated
- Certifications required for VFD systems
- Performance testing is all the same
- What does ISO Certification really mean?
- VFD's are the best way to save energy
- Reasons why hydropneumatic tanks are not required with VFD systems
- What is required in scheduling a VFD pump system
- VFDs require less maintenance then PRVs



A **variable-frequency drive (VFD)** is a system for controlling the rotational speed of an alternating current (AC) electric motor by controlling the frequency of the electrical power supplied to the motor-A variable frequency drive is a specific type of adjustable-speed drive. Variable-frequency drives are also known as adjustable-frequency drives (AFD), variable-speed drives (VSD), AC drives, microdrives or inverter drives. Since the voltage is varied along with frequency, these are sometimes also called **VVVF** (variable voltage variable frequency) drives.

Variable-frequency drives are widely used in ventilation systems for large buildings; variable-frequency motors on fans save energy by allowing the volume of air moved to match the system demand. They are also used on pumps, elevator, conveyor and machine tool drives.

VFDs seem to get a good rap for saving energy on projects. It should be interesting on what Richard has to say. Everyone claims to put a VFD on it, it will save energy. Is that always true?

More importantly, we get to mingle with all of our friends since the long summer, or should I say short summer, man I can't believe it is September already.

Look forward to seeing you **ALL** there. Let's make it a record turnout for our September meeting. Attending only helps the Chapter, not attending hurts the Chapter. Please **BRING A FRIEND**; we all know fellow engineers, contractor, architects and distributors. Let's remember that most of us were introduced to our Great Chapter by a friend.

One more item, in the past people have asked for different venues or locations for meetings. As you noticed I have left a few dates "TBD". I have some ideas, but I thought I would ask the members for some input. If you have good ideas, or know someone in the banquet industry who would be willing to work with us, please let me know. These are your meetings. Welcome back to all.

Rick Butler, Vice President Technical
rbutler@lochivar.com; 224 238.8515



LEGISLATIVE REPORT

I hope everyone had a great summer with family and friends! I would like to keep our members in touch with local code authorities and the codes that they adhere to. For your reading pleasure, I have included a link to a list of cities in Illinois from the *International Plumbing Code* that includes the codes adopted by each city along with a link to an article on cross connection control.

CODE ADOPTIONS FROM ICC, <http://www.cdb.state.il.us/lbc.shtml>

The above web site gives a listing for all the current codes used for each city in the state of Illinois. It gives an up to date listing of local amendments (if they have local amendments or not) as well as a phone number for contacting the local code authority. The web site is also a great source for current state regulations, government, employment, as well as building related requirements etc.

NIABPA (CROSS CONNECTION), <http://niabpa.org/default.aspx>

This is a great source for backflow codes and cross contamination. It gives related incidents which supports why backflow is critical to each and everyone. It is a great site for critical information that should be considered in all design of plumbing systems.

I have also attached a link to a very interesting article in PDF format on water sustainability that was on the AWE site:

AWE Participates in Great Lakes Commission Project on the Value of Water Releases Great Lakes Rates Primer to Help Water Utilities, <http://www.allianceforwaterefficiency.org/WorkArea/linkit.aspx?LinkIdentifier=id&ItemID=5604>

Water pricing plays a central role in water resource stewardship and sustainability and is a key element in water conservation programs. Funded by the Great Lakes Commission and the Great Lakes Protection Fund, the Alliance for Water Efficiency conducted workshops on conservation pricing and prepared a rates primer authored by Dr. Janice Beecher of Michigan State University. This primer provides an introduction to key principles and concepts of ratemaking. It also highlights findings from Dr. Beecher's 2010 Great Lakes Water Rate Survey that was conducted as part of this initiative. There are many organizations throughout the state and country that I will be looking at to keep you abreast of current changes in codes, green initiatives and special systems such as grey water, water reuse, water conservation, water efficiency etc.

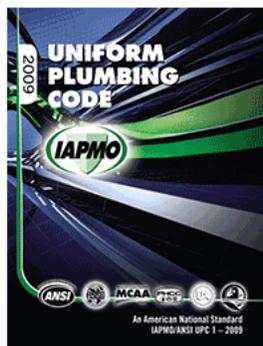
This is the first of many code and current issues that I will provide you as an insight on codes and design issues with each monthly article.

Quick highlight on this month in PS & D Magazine:

1. Healthcare Facilities- Making Smart choices
2. Variable speed fire pumps-How to solve overpressure (History, Basic engineering, Applications etc.)
3. Contract Language – Negligence, Decisions, Lessons learned

If you have any areas of design or codes that you would like me to talk about please feel free to drop me an e-mail at mmannarelli@esdglobal.com.

Mark Mannarelli, Vice President Legislative
mmannarelli@esdglobal.com; 312 456.2354





MEMBERSHIP REPORT

Hello fellow engineers, representatives and contractors. I would like to take a moment to introduce myself as the new Chicago Chapter VP Membership. I am a consulting engineer for Lehman Design Consultants responsible for plumbing, mechanical and fire protection designs. I have been in the business approaching seven years and already have experienced fat times and lean. I am proud to be a member of the best ASPE Chapter in the world in one of the best construction cities in the world. I am relatively new to the Board (this is my second term) and still have a lot to learn. Any comments or suggestions you may have for me will be heard and appreciated.

Tough economic times take tolls in everyone and ASPE has examples of how the current economic climate has affected the Society. Specifically to membership, the great Chicago Chapter has been dealt a few lumps in recent years past. We, as a Chapter, need to counteract the pressures of recession with activism and optimism. Members need to impart the importance of ASPE to peers and superiors alike in an honest effort to bolster the perception of Society, its benefits and strengths. Industry professionals need to regard ASPE on the same level other great organizations like ASHRAE and NFPA, because, by all accounts, ASPE provides for the plumbing engineering profession thoroughly and holistically. ASPE and its members author many design handbooks and data books, provided educational seminars and webinars, host local and national product shows and technical symposia. ASPE is a huge resource that cannot be denied; especially after you have experienced it firsthand! If you know someone in your office that could benefit from membership to ASPE or simply from the networking opportunities it provides, bring them to a meeting with you. If you haven't been to a chapter meeting in a while, come out and meet the newly elected Chicago Board and have a great meal with us. As a new season begins, we look forward to seeing you.

I would like to describe some membership promotions the Chicago Chapter has running now:

- *Member Bring-a-Member:* Current members who bring a new member to their first meeting, or bring a non-member who joins at the meeting, you both get a free dinner!
- *Student Membership:* The ASPE Chicago Chapter will pay for student memberships for up to four years!
- *Member Compassion Waiver:* Qualifying members who need financial relief can get a break on membership from ASPE for four months and if things do not pick up, they can apply for a renewal of this dues relief. If you have questions about this program, please contact me.

Do not let these opportunities pass you by. Engage your peers and get them involved in a Society that can better their careers and yours.

Tony Navarro PE, Vice President Membership
tnavarro@lehmandesigninc.com; 312 201.9733



HELLO AFFILIATES

Here's to a new year of ASPE! I look forward to serving as your Affiliate Liaison again.

Hopefully everyone had a great summer! The new board has been working hard this summer to provide another great year for our Chicago ASPE Chapter. If there is anything you believe needs to be brought to the attention of the Board, let me know and I'll bring it up at our monthly meeting. Hope to see all of you at the meeting!

Mick Bradford, Affiliate Liaison
mick@miller-sales.com, 630 688.2635



MOTHER NATURE

In the last few months we have been experiencing very violent weather with a lot of rain, wind, and lightning. Some of these events were very close to surpassing the design load limits determined by the plumbing codes, and one storm in particular surpassed the 4 inches of rain within a one hour limit.

On August 23, 2011 an earthquake of 5.8 in magnitude stroked the eastern seaboard. This is an area where most of the buildings were not designed to resist ground movement. Despite this situation, there was no serious damage to the buildings. A damage report from a particular building caught my attention; The Pentagon, which was remodeled and reinforced after the September 11 event, sustained damage only to the plumbing system.

This is just another surprise from Mother Nature, giving the northeastern coast line a taste of what the States of Florida and California have to endure on a regular basis. In our area we have the New Madrid Fault, so maybe it's time to start adopting some of the plumbing codes from states that already have preventative measures in place. I understand that not everything needs to be used, especially those codes that could create a conflict with our existing local codes. Three examples include:

- Bracing water heaters
- Equipment piping flexible connections
- Natural gas earthquake shut-off valves

Links to Florida State and California state plumbing codes:

- FL - <http://www.tiny9.com/u/5860>
- CA - <http://www.iapmo.org/Pages/californiaplumbingcode.aspx>

In the future designs we should consider changing some of the limitations in pipe sizing so buildings become capable of handling over 4 inches of rain within an hour, and/or the addition of detention pipes or tanks before connecting the building storm drain to the city sewer.

I urge each one of our members to participate and get involved. Let us know how we can improve our plumbing systems to comply with Mother Nature's current demands.

Francisco DeHoyos, Administrative Secretary
fdhoyos@dbhms.com; 312 915.0557 ext. 251



40TH ASPE CHICAGO PRODUCT SHOW AWARDS AND UPDATES

I would like to thank everyone for their participation in our Product Show this past April at White Eagle Banquets. The Product Show displays and presentations were as good as ever. In recognition of the excellent booths, the Board has gone through an exhaustive selection process and voted on our 2011 Robert A. Cutler Memorial Booth Excellence Awards.

This year we would like to recognize the following manufacturers and representatives:

Viega

Riddile and Associates

FTI Sales

Please come to the September meeting to congratulate our winners.

Summer is almost over and it is time to get back to ASPE meeting season, and soon we will start planning our next Product Show. Please mark your calendars! The next Product Show will be on **April 19, 2012** and it will be here before you know it. As always we will have the best exhibitors in the industry, the finest plumbing products and outstanding educational classes. We are looking for any ideas or comments you may have regarding our past product shows and the future of our product show. If you have any comments or ideas, please contact our Product Show Chairman, Phill Kroll, (hey, that's me!) at pkroll@metrodsn.com, or 224 629.4444. I welcome any input that can help keep our Product Show new and fresh.

Let's have another great year of ASPE with friends and of course good food and drink! I look forward to seeing everyone at The Parthenon.

Phill Kroll, Product Show Chairman
pkroll@metrodsn.com; 224 629.4444



INDUSTRY NEWS

Another exciting ASPE year is upon us and other organizations are starting up as well. September looks like a month for golf and national conventions. See what's happening in our industry below. If there is an organization you would like me to contact, please send me an e-mail at kseier@esdglobal.com.

American Society of Sanitary Engineering (ASSE) (www.asse-plumbing.org/Chapters/region04_il.html)

Congratulations to Vince England for winning the 2011 ASSE Edward J. Zimmer award!

2011 ASSE Annual Meeting

Date: November 9 – 12

Location: New Orleans

Cost: \$150 Members, \$200 Non-members

Contact: <http://asse-plumbing.org/am11.html>

PAMCANI (www.pamcani.org)

PAMCANI has developed an industry-wide calendar listing events throughout the year, including those of ASPE Chicago. Go to www.piccal.org.

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

Chapter Luncheon Meeting – History of Smoke Detection

Monday, September 12; 11:30am sign-in with lunch at 12:00 noon

Maggiano's Little Italy, 240 Oak Brook Center, Oak Brook, IL

Presenter: Dan Finnegan

Cost: Members with reservations \$25, Members walk-in and guest \$30, Firefighters in uniform \$15, fulltime students with valid ID \$10

Contact: Jessica Dahl at jhubert-dahl@janusfiresystems.com

Illinois Association of Plumbing-Heating-Cooling (ILPHCC) (www.ilphcc.com)

2011 National PHCC Convention and Product Showcase

September 21 – 24

Hilton Hotel, Minneapolis, MN

Go to the following website for information. https://eweb.phccweb.org/eweb/DynamicPage.aspx?webcode=EventInfo&Reg_evt_key=1484d5d1-4898-4fa2-9107-072da70240cc

Illinois Fire Prevention Association (IFPA) (www.ifpanet.org)

IFPA Golf Outing

Tuesday, September 20

Glendale Lakes Golf Club, 1550 President Street, Glendale, IL, 60139

Cost: \$110 golf, lunch, cocktail hour and dinner (\$400/foursome)

Contact: Fax to Danielle Sandfox at (847) 524-8262 or register at <http://www.ifpanet.org/>



Illinois Chapter of ASHRAE (www.illinoisashrae.org)

ASHRAE Golf Outing

Thursday, September 15; 9:30am Shotgun Start

St. Andrews Golf Club, 2241 Route 59, West Chicago, IL

Cost: \$160 single, \$640 foursome, \$60 buffet

Contact: https://echapter.ashrae6.org/mtg_registration.php?MTG_ID=00298



HVAC&R Design Basics Seminar Series (24 PDHs)

Date: Thursday Evenings (8 total) from September 22 – November 10; 6:00 – 9:00 pm

ITT B&G Little Red School House, 8200 N Austin Ave, Morton Grove, IL

Cost: \$375 (if paid by Sept 16), \$425 afterward

Contact: http://www.illinoisashrae.org/wp-content/uploads/2011/08/HVAC_seminars.pdf

Keith Seier, Corresponding Secretary

kseier@esdglobal.com; 312 456.2338

2011-2012 ASPE CHICAGO MEETING SCHEDULE

DATE	TECHNICAL PRESENTATION	LOCATION
September 15, 2011	12 Myths of VFD Booster Systems - SyncroFlo/FTI Pumps	Parthenon 314 S Halsted St Chicago, IL
October 20, 2011	Active PH Neutralization/Industrial Waste Treatment - Burt Process Equipment	La Villa Restaurant 3632 N Pulaski Rd Chicago, IL
10/27/2011 - 10/30/2011	ASPE Technical Symposium, Orlando, FL http://aspe.org/node/716	Disney World
November 17, 2011	Possible PAMCANI Joint Meeting, still working on topic or Delta (see February 2012)	Suburbs
December 15, 2011	Booster Night	La Villa Restaurant 3632 N Pulaski Rd Chicago, IL
January 19, 2012	Movie Related to Plumbing Industry	TBD
February 16, 2012	Legionella and Other Waterborne Pathogens and Electric Faucets Delta also possible discussion on new ASHRAE Legionella Code	TBD
March 15, 2012	Gas Rebate Program for Water Heaters and Kitchen Equipment NICOR Plus gas piping for Water Heaters	TBD
April 19, 2012	41st Annual ASPE Chicago Product Show and Seminars	White Eagle 6839 N Milwaukee Ave Niles, IL
May 17, 2012	Open right now: ideas Sales for Engineers Emergency Wash Stations Lead in Fixtures Tour related to plumbing	Westwood Tavern & Tap 1385 N Meacham Rd Schaumburg, IL
June 21, 2012	Annual Golf Outing	Hilldale Golf Club 1625 Ardwick Drive Hoffman Estates

If you would like to present any of these topics or become a meeting sponsor, please contact Rick Butler at rbutler@lochinvar.com, 224 238.8515