



Chicago ASPENEWS



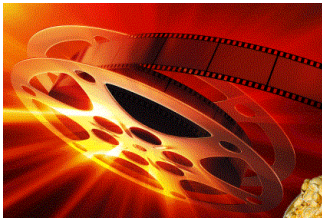
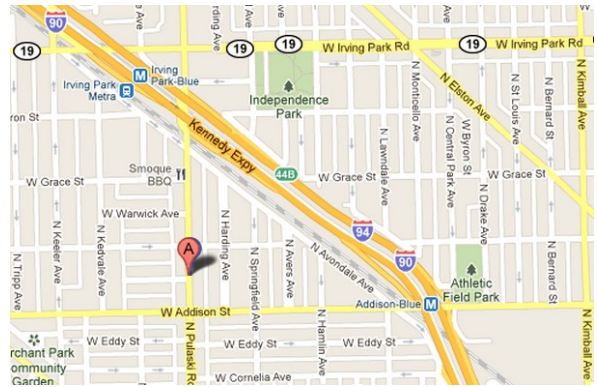
Chicago Regional Chapter of the American Society of Plumbing Engineers
Vol. 43, No. 6 January, 2012

Chicago Chapter General Meeting Thursday January 19, 2012

La Villa Restaurant & Banquets

3632 N. Pulaski Road
Chicago, IL 60641

FREE Parking!



Movie



Night

MENU

Dinner:

- Great Pizza; thick and thin
- Mixed Salad (for the New Year's diet people)
- Free Popcorn
- Free Pop

AGENDA

- 5:30pm Cocktail Hour, cash bar
Movie Warm-up, "A Plumbing We Will Go", a Three Stooges classic
- 6:30pm Dinner, (\$20 ASPE Members with RSVP/\$25 Non-Members and Walk-ins)
- 7:00pm Feature Presentation – "Liquid Assets: The Story of Our Water Infrastructure", by Penn State University (Please note the early start!)

Liquid Assets The Story of Our Water Infrastructure

For more information, see the VP Technical article inside this newsletter

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

Local Chapters are not authorized to speak for the Society



PRESIDENT'S MESSAGE

Happy 2012! The 12th year of the 3rd millennium and of the 21st century! Whether it was Christmas, Hanukkah, Kwanzaa or Festivus (for the rest of us), I hope you had a memorable holiday celebration surrounded by your loved ones.

First of all, thank you to all who came to Booster Night, the ASPE Chicago Chapter holiday party. We had over 100 people in attendance, the food was amazing, and we quenched our thirst. It was a great chance to share good memories and laughs with friends. Kudos to the Affiliates and Manufacturers' Representatives that chipped in financially to make sure this event was a success. Thanks to them and your memberships, we were able to provide you with a great meal, an elegant harpist and fun entertainment.

Although ASPE Chicago Schedule doesn't start on January 1st, I would like to remind you to write down these dates:

- January 19, 2012 ASPE Regular Meeting
- February 16, 2012 ASPE Regular Meeting
- March 7, 2012 ASPE Chicago Plumbing Engineering Basics class begins
- March 15, 2012 ASPE Regular Meeting
- April 14, 2012 ASPE Chicago CPD Review Class
- April 19, 2012 ASPE Chicago Chapter Product Show
- April 19 or 20, 2012 CPD Certification Exam
- May 17, 2012 ASPE Regular Meeting
- June 22, 2012 ASPE Chicago Golf Outing
- August, 2012 ASPE Chicago Family Picnic! Date and location TBD
- December 21, 2012 Doomsday**

Historian Don Johnson

Where in the world is Mr. Johnson, you may ask? Well, he is at home recovering from a minor issue. Don, we all miss you and we hope to see you soon!

Value of the CPD Certification

Today I received in the mail my brand new CPD recertification which I proudly display at work. As some of you know, this certificate reads:

*American Society of Plumbing Engineers
Your name could be here!, is hereby recertified as Certified in Plumbing Design*

Below, in a very elegant *GothicE* font it reads,

For successfully demonstrating a high level of competence in the design of engineered plumbing systems by meeting the standards required for CPD and through the completion of the CPD recertification program

ASPE's CPD program is the only accredited certification in the United States for Plumbing Engineers and Designers. It sets the standards within our industry and provides recognition to professionals skilled in the design and specification of plumbing **science**. The program has been recently overhauled and the test has been revised. Our CPD examination test passing rate is comparable to other tests in the industry and by no means is an easy test; experience and dedication are required to achieve this certification.

As of December 2011, ASPE Chicago Chapter, the best Chapter in the Nation (I can't reiterate that enough), has **55 registered CPD Professionals**, our closest follower is 15 professionals behind. We should all be proud of this achievement. However, let's note that our chapter stands at 314 members strong and if this is something you want to accomplish, we are here to help.

(continued on page 3) ----->

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<http://chicago.aspe.org/>

PRESIDENT'S MESSAGE (cont'd)

ASPE Chicago Chapter has an excellent **CPD Certification Training Program**. The class, held annually, is free for ASPE Members and we provide you with educational materials during an all-day training session. Please take advantage of this opportunity. Your past and present Board of Directors worked hard to establish this program and all we need is your commitment. The upcoming **CPD Exam** will take place on the **third weekend of April**, very close to our Product Show, and our CPD Certification Training Program will take place the weekend before that,

ASPE CPD Certification Training Program

Saturday April 14, 2012

Grumman/Butkus Associates

820 Davis Street, Suite 300

Evanston, IL

Time: 9am-4pm

Please email me at fxs@grummanbutkus.com or call me at 847 316.9251 to register.

Region V Society Nominating Committee

If you are interested in running for the Society Board of Directors, please contact Cyril F. Unger, CPD, FASPE - Region 5 – Nominating Committee at cyril.unger@att.net, 713 777.7986 (Home), 281 382.3564 (Cell). Please remember that the next elections will be held this October at the 2012 Convention and EPE in Charlotte, NC.

ASPE Chicago Chapter Jobs Program

We have a list of skilled professionals who are looking for work. If you are hiring, please email Jason McDonald at JasonSAMcDonald@gmail.com or call him at 812 463.2112. This information is kept **confidential**.

2012 ASPE Chicago Plumbing Classes

Please remember that the **ASPE Chicago Chapter Basic Plumbing Class** will start again on **March 7, 2012**. The syllabus and registration have been attached to this newsletter and will be available on our website (<http://chicago.aspe.org>). The classes will be held at ESD, Inc. at 175 West Jackson Blvd, Chicago IL 60604.

Other Educational Opportunities

Fuel Gas; Venting and Sanitary Drainage PowerPoint Educational Programs are available for Chapters to purchase on the ASPE website. <https://aspe.org/PPTeducation>

There are over 15 programs to choose from so just click on the following link: <https://aspe.org/OnlineEducation>

If you are interested in reviewing an archived webinar, they can be viewed by anyone any time. There are over 20 archived webinars to choose from and they can be accessed by clicking on the following link: <https://aspe.org/WebinarArchives>

Last but not least, ASPE Chicago Scholarship

We are proud to announce that **Mr. Jinguy Lee**, ASPE Chicago member since 2010, is the 2012 ASPE Chicago Scholarship recipient. Mr. Lee is an undergraduate at IIT, pursuing a carrier in engineering building science. He has a 3.927 GPA out of 4.0 and is completing three degrees in Civil Engineering, Architectural Engineering and Architecture. Thanks to your support, ASPE Chicago will contribute **\$1,000** towards his education.

Before I go, I want to share a few words regarding the "special event", **December 21, 2012 – Doomsday**. The Mayan calendar uses three different dating systems (no, David, online dating is not one of them), the Long Count, the Tzolkin (divine calendar), and the Haab (civil calendar). The fortunate thing about doomsday 2012, is that it's scheduled for the week after our 2012 Booster Night! Thank you Mayans! So don't worry, we will have a great celebration before the end of days.

We all need a sense of beginning and closure in our lives; this gives us the opportunity to look back at our achievements, successes and failures. This "cyclical nature" was highlighted by all ancient cultures and the Mayans were not the exception. Their remarkable mathematic accuracy and complexity is of no pair and it's also mixed with spirituality, just like we do at the end of each cycle in our lives. Please make your own research on the topic and develop your own interpretations.

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PRESIDENT'S MESSAGE (cont'd)

The last couple of years have been difficult, but I heard a lot of great news and optimism during Booster Night. While there are still people looking for work and working reduced hours, it seems the economy is picking up. There are more companies offering employment and more projects being built. We truly hope this "cycle" will be over soon.

Wishing you all a world of peace and happiness throughout all the seasons of the coming new year,

*Frank Sanchez, CPD; ASPE Chicago President and Proud Keeper of Lau
fxs@grummanbutkus.com; 847 316.9251*

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



TECHNICALLY SPEAKING

Happy New Year to all!!

December Meeting Recap

Thanks to all who attended Booster Night, over 100 in attendance!! It was great to see regular faces, not so regular faces and several new faces. The Tower of Shrimp rocked again as always, and only good reviews on the food! As far as the entertainment, Patti Vazquez rocked too! Her style of humor fits in well with our crowd, and we all can relate to her stories.

The word "Booster" came to play with several new applications coming in that night. Welcome new members!! Remember get involved with the chapter, it is quite rewarding. You can ask any Board Member how to get involved. We are always looking for volunteers.

Again, a reminder to thank the Affiliates for their support. Without their monetary commitment to this event, the cost to us members for a great night like this would be more than double what we paid. Plus the entertainment would have been Rick Butler telling jokes and singing, well at least the place would have emptied out by 8:03 PM and we would be home early.

Finally, Toy's 4 Tot's I would say this year we broke the record. With people bringing toys at both our October and November meetings, we really out did ourselves, I heard Toy's 4 Tot's was running a little short to date so this should sure help out. Thanks to all who brought toy's or donated to the 50/50 raffle for the same cause.

This Month's Meeting

We are going back to La Villa for our "Movie Night". La Villa has a good set up for a movie. Plus their pizza is fantastic!

Liquid Assets, a ninety-minute documentary, tells the story of essential infrastructure systems: water, wastewater, and stormwater. These systems, some in the ground for more than 100 years, provide a critical public health function and are essential for economic development and growth. Large-

ly out of sight and out of mind, these aging systems have not been maintained, and some estimates suggest this is the single largest public works endeavor in our nation's history. Exploring the history, engineering challenges, and political and economic realities in urban and rural locations, the documentary provides an understanding of the hidden assets that support our way of life. Locations featured in the documentary include Atlanta, Boston, Herminie (Pennsylvania), Las Vegas, Los Angeles, Milwaukee, New York City, Philadelphia, Pittsburgh, and Washington, D.C.



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TECHNICALLY SPEAKING (cont'd)

Product Show Committee Meeting

We are ready to start this up again, and volunteers are needed.

The Product Show Chairman is Phill Kroll. He was the Chairman last year and did a fantastic job. If you would like to attend, you NEED to **RSVP to Phill or myself by January 10, 2012.**

Phill Kroll - pkroll@metrodn.com

Rick Butler - rbutler@lochinvar.com

If you have a topic to present or hear, let us know immediately! If you want to present, it would be a good idea to attend the first Product Show meeting. One presentation we know for sure is booked; Solar installations from a Solar Contractor's view. When considering a presentation, keep in mind not to overlap the topics we have or will be covering in our monthly meetings.

The first Product Show Committee meeting will be **Thursday January 12** at:

**Gino's East of Rolling Meadows
1321 W Golf Road, Rolling Meadows, IL
Meeting begins at 6pm**

See you there!

Coming Soon to a Test Site Near You - CPD Test / Review Class

The **2012 CPD Exam** (Certified in Plumbing Design) will take place April 19th or 20th. Prior to the test, the Chicago Chapter will be conducting a review class for this test. Keep an eye on the newsletter or website for further details.

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



ASPE CHICAGO CHAPTER MEMBERSHIP PROMOTIONS

"The core purpose of the American Society of Plumbing Engineers is to continually enhance and promote the profession of plumbing engineering while assisting in improving the safety and well-being for the public on a global scale."

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 any of the ASPE Chicago Board Members.

NOT AN ASPE MEMBER? JOIN TODAY!

<https://aspe.org/Membership>

YOU CAN RENEW ONLINE, TOO!

<https://aspe.org/RenewMembership>



LEGISLATIVE REPORT

Greetings from your V.P. Legislative!

As I mentioned in December's newsletter article, "In order to be successful, it's very important to ask the right questions from the very beginning of a project." Well, asking the right questions is also very important when you are dealing with local or county building codes-- you need to know which codes take precedence-- and who has the authority for each of the codes you are going to be applying in your design process.

Has anyone heard of the Cook County Building Code? Interestingly, only one small area in Cook County still adheres to this code – it's the suburb of Northbrook.

Recently, I designed a project located in Northbrook. Unfortunately, I assumed Northbrook adhered to the Illinois State Plumbing Code – and not the Cook County Building Code. Remember what they say about "assuming"? Well, I fell victim to my own assumptions! I completed the design according to the Illinois State Plumbing Code, went through the QA process, and sent the design out the door for permit approval. Done!

A few weeks later, we received comments back from the City of Chicago for corrections to the design drawings. We made the requested corrections and sent them back. It was a full month before the City reviewers saw our changes, and by that time, our client had called to see what was delaying the permit. Very embarrassing.

Even more embarrassing was being called into the City of Chicago Permit Reviewer's office (with my project manager) to personally make the required changes in accordance with the Cook County Building Code. He then also made me copy the section of the Cook County Building Code that pertained to my design to keep for my records. I cherish this photocopy!

How can you prevent this from happening to you? There is a website called www.sterlingcodeifiers.com, a great resource for anyone who is searching for code information. The website has a trained staff dedicated to searching code information, and they have information for almost every city and town in Illinois – and also for several other states. You might want to look up code information from articles in upcoming *PS & D* issues.

IAPMO has just issued the 2012 edition of the *Uniform Plumbing Code*. The codebooks will be released for purchase, both in hard copy and digital format. They have made significant changes to the UPC. Here are a couple of the more important changes:

1. New appendix L (sustainable practices)
2. New minimum plumbing facilities table (Chapter 4)

New alternate water sources for non-potable applications and non-potable rainwater catchment systems (Chapters 16 and 17) based on IAPMO's *Green Plumbing and Mechanical Code Supplement*.

Remember to keep the date open for the **ARCSA Rainwater Harvesting Workshop** February 14th and 15th in Rosemont. For additional details and information go to www.ASPE.org.

One last piece of information I would like to share with you - the ASPE website has a tab for *PS&D* magazine. You can get back issues (available copies go back to January of 2003) as well as the current issue. The January/February issue features articles on Revit MEP 2012, green building ratings systems, changes to the 2012 Uniform Plumbing Code, installing safe and cost-effective propane systems, and on-site solutions to combating CSOs (Combined Sewer Overflows). To gain access to the magazine portion you need to use your last name followed by your membership number and password. Additional directions are described on the website.

Welcome back to the start of a brand new Year!

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





NEWS FROM YOUR ADMINISTRATIVE SECRETARY

DECEMBER MEETING RECAP

Happy New Year! The December 2011 Chicago Chapter Meeting was a blast with 109 in attendance. It got so good that some people did not show up to work the day after, a true plumber's' party.

- The **Free Dinner Raffle** winner was: Jeff Cochran of Grumman/Butkus Associates.
- **50/50 Raffle winners** this month were: Michael Harrigan from Toto USA Inc. & Greg Pardue from Deery-Pardue.

The Chicago Chapter donated \$250.00 to Toys for Tots! Thank you for your participation.



I wish everybody a very prosperous 2012.

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



AFFILIATES

Thank you once again to all who participated as a sponsor for the ASPE Chicago Booster Night. Booster Night was another success. Patti Vasquez was hilarious. We have to thank Phill Kroll for bringing Patti to us.

Booster Night Contributors:

Added Sales	Luczak Sales, Inc.
Anvil International	M. Cooper Supply
ATS Spec	Mid-Continent Marketing
Bradley Corporation	MIFAB
Bornquist, Inc.	Miller Sales, Inc.
Cast Iron Soil Pipe Institute	One Source
Copper Development Association	Orion Acid Waste Pipe
Deery-Pardue & Associates	R.C. Sales & Services, LLC
FTI Pumps and Controls	Repco Associates
Guardian Equipment	Symmons
Halogen Supply	TJ Higgins
Hart Travers & Associates	TOTO USA
Inland Sales Group, Inc.	Tramco Pumps
Kast Marketing, Inc.	Victaulic
Kohler	Viega
Little Giant Pump Co.	Water Saver Faucet Co.
Lochinvar	

It's time to get ready for the **Product Show**. If you have any suggestions/comments on the Product Show, look for the dates for Product Show Committee meetings or drop me an email. I'll be happy to bring them up to the committee when we meet. We are striving to produce another great Product Show for which we all can be proud. Thank You.

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

Thank You!



INDUSTRY NEWS

Happy New Year to all my friends and colleagues in the plumbing industry. A new year brings new promises, new challenges and new opportunities. It also brings many new meetings, product shows and educational seminars. See below to find out the latest and greatest activities in our industry. 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) (<http://www.asse-plumbing.org/calendar.html>)

1st Quarter 2012 ASSE Board of Directors Meeting
Dates: Monday, January 9
Location: Pointe Hilton Squaw Peak Resort, Phoenix AZ
Details: See ASSE website.

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

January Chapter Meeting
Dates: Monday, January 9
Location: TBD
Time: 11:30 Sign-in, 12:00 Lunch
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 or <http://chicagosfpe.clubexpress.com>

February Chapter Meeting
Dates: Monday, February 6
Location: TBD
Time: 11:30 Sign-in, 12:00 Lunch
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 or <http://chicagosfpe.clubexpress.com>

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

Illinois PHCC CEU Class
Dates: Friday, January 6; February 24
Location: Heartland College, Bloomington/Normal
Time: 1 pm – 5pm
Cost: \$50
Notes: Must be a licensed plumber to attend. Contact ILPHCC @ 217-522-7219 to register.

Illinois PHCC Expo
Date: March 23, 2012
Location: Drury Lane Conference Center, Oakbrook Terrace, IL
Contact: More info to follow

AHR Expo (<http://www.ahrexpo.com/>)

Dates: January 23-25, 2012
Location: McCormick Place North and South, Chicago
Time: 10 am – 6pm
Cost: FREE
Notes: 2000 exhibiting companies from over 30 companies and 50,000 visitors attend this show. Do not miss it.

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

IFPA January Meeting
Date: 7:00 pm, Tuesday, January 10, 2011
Location: Glendale Lakes Golf Club in Glendale Heights
Cost: TBD
Contact/RSVP: <http://www.ifpanet.org/RSVP.aspx?DB=Cal&ID=42> at www.ifpanet.org

Illinois Chapter of ASHRAE (www.illinoisashrae.org)

ASHRAE Region Dinner
Date: Sunday, January 22
Location: Maggiano's - 516 North Clark Street, Chicago
Cost: TBD
Contact/RSVP: <http://www.ashrae.org/Events/page/Chicago2012> or www.illinoisashrae.org

USGBC – Illinois Chapter (LEED)

Events Calendar - [http://usgreenbuildingcouncilchicagochapter.roundtablelive.org/calendar?](http://usgreenbuildingcouncilchicagochapter.roundtablelive.org/calendar?EventView-Mode=1&EventListViewMode=2&SelectedDate=9/22/2011&CalendarViewType=1)
EventView-
Mode=1&EventListViewMode=2&SelectedDate=9/22/2011&CalendarViewType=1

Engineering News (www.eweek.org/home.aspx)

National Engineers Week
February 19-25
There are many challenges facing our world that require immediate engineering solutions. At the same time, we are challenged to prepare the next generation of talent by helping to remove the social, education and economic barriers that deter young students from engineering and technology education and careers. The National Engineers Week Foundation delivers programs and resources used by partners locally, nationally and internationally to overcome these barriers. Let's make a difference and help support the next generation of engineers.

Keith Seier, Corresponding Secretary
kseier@esdglobal.com; 312.456.2338

THE ASPE CHICAGO BADGE IS BACK!

Are you tired of being the only one at the meeting without a nifty ASPE Chicago name badge? Tired of having other members point and laugh at you? Well, we may be able to help (a little) - we can at least help you look good while being picked on by your fellow members!!

The Chicago Chapter is proud to offer once again our badge promotion.

Did you change companies since you got your current badge?
Did you lose your badge when you mistakenly stuck it into an ATM?
Or heck, maybe you never had a badge at all! Well, we are here for you!!
Place your order now - operators are standing by!!
"Badges?? Yes, we DO need steenking badges!!"

COSTS

Badge: \$20.00 includes plastic badge with ASPE logo and two lines of text (Name and Company)

Shipping: Not included. Pick up your badge at the March monthly meeting or pay \$5.00 for shipping to have it delivered to your office.

Badge: \$20.00

Shipping is optional (\$5): \$ _____

Total: \$ _____

Make checks payable to "ASPE Chicago" and submit the total amount to:

ASPE Chicago Chapter, c/o Joe Ficek @ Grumman/Butkus Associates
820 Davis Street, Suite 300; Evanston, IL 60201

(or you can fax the form to Joe at 847 328-4550 or email him at jff@grummanbutkus.com)

Name: _____

Company: _____

(Name and Company Name will be printed on the badge as listed above – if you leave blanks or list other names, they WILL be printed on the badge.)

DEADLINE FOR APPLICATIONS IS March 1, 2012

(This will ensure that you receive your name badge at the Product Show on April 19)

THIS PROMOTION IS FOR ASPE CHICAGO MEMBERS ONLY!!

2011-2012 ASPE CHICAGO MEETING SCHEDULE

DATE	TECHNICAL PRESENTATION	LOCATION
September 15, 2011	<i>12 Myths of VFD Booster Systems</i> presented by Richard Hansen of SyncroFlo/ FTI Pumps and Controls	Parthenon 314 S Halsted St Chicago, IL
October 20, 2011	<i>Active PH Neutralization/Industrial Waste Treatment</i> Presented by Mark Girgenti of Burt Process Equipment	La Villa Restaurant 3632 N Pulaski Rd Chicago, IL
10/27/2011 - 10/30/2011	<i>ASPE Technical Symposium, Orlando, FL</i> http://aspe.org/node/716	Disney World
November 17, 2011	<i>The Need for Water Conservation and the Evolution of High Efficiency Plumbing Fixtures</i> Presented by Timothy A. Smith, Engineered Building Solutions & Society Vice President, Technical	Westwood Tavern & Tap 1385 N. Meacham Rd Schaumburg, IL
December 15, 2011	<i>Booster Night - Comic Patti Vasquez</i>	La Villa Restaurant 3632 N Pulaski Rd Chicago, IL
January 19, 2012	<i>ASPE Chicago Movie Night</i> <i>Cocktail Hour - Three Stooges, A Plumbing We Will Go</i> <i>Technical - Liquid Assets: The Story of Our Water Infrastructure</i>	La Villa Restaurant 3632 N Pulaski Rd Chicago, IL
February 16, 2012	<i>Primer: Press Fittings for Steel Pipe</i> presented by Viega <i>Technical: Gas Rebate Program for Water Heaters and Kitchen Equipment</i> presented by NICOR and <i>Gas Piping for Water Heaters</i> presented by Lochinvar	Parthenon 314 S Halsted St Chicago, IL
March 15, 2012 	<i>Legionella ,Other Waterborne Pathogens and Electric Faucets</i> Presented by Delta Faucets	La Villa Restaurant 3632 N Pulaski Rd Chicago, IL
April 19, 2012	<i>41st Annual ASPE Chicago Product Show and Seminars</i>	White Eagle 6839 N Milwaukee Ave Niles, IL
May 17, 2012	<i>Reduction of Lead in Drinking Water Act</i>	Westwood Tavern & Tap 1385 N Meacham Rd Schaumburg, IL
June 22, 2012	<i>Annual Golf Outing</i>	Hilldale Golf Club 1625 Ardwick Drive Hoffman Estates, IL

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