



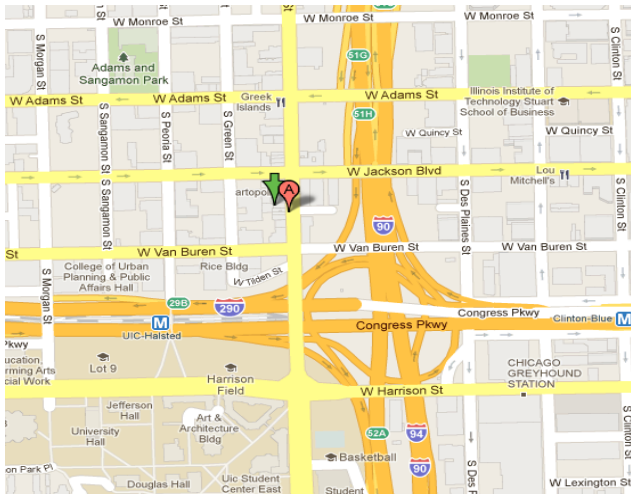
Chicago ASPENEWS



Chicago Regional Chapter of the American Society of Plumbing Engineers
Vol. 43, No. 7 February, 2012



Chicago Chapter General Meeting Thursday February 16, 2012




The Parthenon
314 S. Halsted Street
Chicago, IL 60661

FREE Valet Parking!

AGENDA

- 5:30pm Cocktail Hour sponsored by:
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- 6:00pm Primer: Viega Megapress; Black Steel Pipe joining system
- 6:45pm Dinner, (\$30 ASPE Members with RSVP/\$35 Non-Members and Walk-ins)
- 7:45pm Programs: "Gas Rebates for Gas Fired Kitchen Equipment and Water Heaters" presented by Nina Newhouser and Kristen Van Kley from the Resource Solutions Group
- Immediately following: "Gas Piping for Gas Fired Water Heaters" presented by Steve Montgomery of Lochinvar

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
 - Tzatziki (yogurt/Cucumber)
 - 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

We hope you all enjoyed our twist to the regular ASPE Chicago Meetings. Last year, we presented *Blue Gold: World Water Wars* (www.bluegold-worldwaterwars.com), a documentary that discussed water privation around the world and its negative effects. By the way, this film is available on Netflix for those who missed it. This year, we continued the same approach and presented another interesting documentary, *Liquid Assets* by Penn State Public Broadcasting (http://liquidassets.psu.edu/the_film/index.html). This documentary sought to inform us about the critical role that our water infrastructure plays in protecting public health and promoting economic prosperity. Some interesting discussion took place afterwards.

We are aware that the infrastructure in Chicagoland is also aging and it will require upgrades. For instance, the Department of Justice and the U.S. Environmental Protection Agency (EPA) announced last December a Clean Water Act (CWA) settlement with the Metropolitan Water Reclamation District of Greater Chicago (MWRD) to resolve claims that untreated sewer discharges were released into Chicago area waterways during flood and wet weather events.

<http://www.epa.gov/compliance/resources/cases/civil/cwa/mwr.html>

Under the settlement, the MWRD is required to:

- Complete a tunnel and reservoir plan to increase its capacity to store storm water runoff during wet weather events for later processing. The project is intended to be completed in a series of stages in 2015, 2017 and 2029.
- Control trash and debris in overflows using skimmer boats to remove debris from the water so it can be collected and properly managed.
- Implement a green infrastructure program that will reduce storm water runoff in areas serviced by MWRD by distributing rain barrels and developing projects to build green roofs, rain gardens, or use pervious paving materials in urban neighborhoods.

Water Reclamation District officials have said disinfecting wastewater would be costly — \$500 million up front and \$23 million per year afterward — and would not have public health benefits. A report by the district said disinfection does not kill all pathogens and cited two studies showing no ill health effects linked to using the river.

Also, the Metropolitan Water Reclamation District of Greater Chicago insists that it does not need to disinfect wastewater and contends that the enormous Deep Tunnel project scheduled for completion in two decades will solve most of the city's flooding and sewage overflow problems.

I would like to hear back from you regarding these January Movie Nights. Do you like the scheme? Do you have any recommendations or suggestions? We are here to better serve you, please let us know.

CPD Exam Will Be Held April 19 & 20

The Certified in Plumbing Design examination will be administered on Thursday April 19 and Friday April 20. The exam is an online proctored exam with several testing sites throughout the U.S. and Canada. The CPD examination consists of 100 multiple-choice questions covering five major job dimensions: gathering information, administration, design, specifications, and construction services.

CPD Examination Fees:	
ASPE Members	\$375.00
ASPE Members with P.E.	\$300.00
Non Members	\$625.00
Non Members with P.E.	\$550.00

You can download the CPD Bulletin from Society's website for more information. <http://aspe.org/CPDCertification>

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PRESIDENT'S MESSAGE (cont'd)

FREE CPD Review Class for ASPE Chicago Members

As usual, we will have our traditional ASPE CPD Review Class at Grumman/Butkus Associates in Evanston, IL. This review class is free for ASPE members and it will be instructed by Chicago Chapter past President David DeBord. We will provide free refreshments, lunch and study materials. Following is the info for our review class:

April 14, 2012
Grumman/Butkus Associates
Evanston, IL
Time: 9am-4pm

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

2012 ASPE Chicago Basic Plumbing Classes

Please remember that the ASPE Chicago Chapter Basic Plumbing Classes 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>). **Please note that we must find an alternate location. We will let you know the new location as soon as it becomes available.**

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 at the 2012 Convention and EPE in Charlotte, NC.

That's it for now; we hope to see you at The Parthenon in February.

Frank Sanchez CPD, President

fxs@grummanbutkus.com; 847 316.9251

TECHNICALLY SPEAKING



I got Gas! The February meeting will be concentrating on Natural Gas Systems for the Plumbing Industry. We are going back to the Parthenon in Greek Town. The menu will feature a variety of fine Greek food, see menu on cover page.

We have a Primer this meeting. Viega will have a table top of their new "MegaPress" Black Pipe joining system for regular black pipe and gas pipe. Michael Hanney from Viega will be demonstrating the new system. Don't forget to thank Viega and Lochinvar for co-sponsoring the cocktail hour!

TECHNICAL PRESENTATIONS - We have a Double-Header This Month!

The First Presentation: Rebates for Gas fired Kitchen Equipment and Water Heaters

The speakers will be Nina Newhouser & Kristen Van Kley. They are from the Resource Solutions Group. "RSG" is the program managers for the NICOR Gas rebate programs. They will be reviewing the opportunities for gas rebates you can offer your customers. The rebates can help move forward projects, or start new projects.

They will review what is available to your clients, and how to calculate the rebates for your clients. They will discuss the implementation of the different types of programs available. Additionally, they also have several tools to help market the rebate offerings.

The Second Presentation: Installation Practices for Gas Piping on Condensing and Non-Condensing Water Heaters, the Dos and Don'ts

The speaker will be Steve Montgomery of Lochinvar. Steve has had several years with Lochinvar. He has been involved with many projects where improper gas piping caused issues for water heaters. New technology gas systems in water heaters allow for smaller gas lines, and lower gas pressures.

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TECHNICALLY SPEAKING (cont'd)

PRODUCT SHOW:

Next product show meeting will be **February 23, 2012**. If you want to be involved with a seminar or help out another way, please let us know before the meeting or ATTEND THE MEETING. See the Product Show flyer included with this newsletter for more information.

RSVP Contacts: Rick Butler: rbutler@lochivar.com and Phill Kroll: pkroll@metrodog.com

We need the RSVP please!

As always, Thanks for your cooperation!

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



LEGISLATIVE REPORT

I am sure that every plumbing engineer has been on a project where something (equipment, piping, material, etc.) has been value engineered out of the project. This sometimes causes problems further down the line in the construction process during the project. Unforeseen things can become very large problems due to the fact that contractors and owners make decisions (beyond the plumbing engineer's awareness) that they believe will save money on the project. Unfortunately, plumbing engineers don't always have the final say of what should stay in the project or not.

I had the opportunity to work on a project in the western suburbs of Chicago and had the unfortunate circumstance (unforeseen decision) that allowed the plumbing contractor to remove a substantial amount of piping in the basement. During the construction phase the contractor requested an RFI to remove the additional piping. The plumbing contractor was given the opportunity to keep the additional piping in the project but chose not to. My response to the RFI was to keep the piping in the project. This decision to remove the piping by the plumbing contractor caused a tremendous issue and caused an enormous problem that the contractor had to fix with his own money.

I left the best part of the story for last.

The piping that was valued engineered from the project where the bounce stacks at the bottom of the riser. This caused the toilet at the first floor to back up with suds overflowing onto the floor and into the hotel room. The client sent us a picture of the bathroom with the toilet and the suds everywhere. By using bounce stacks at the base of the riser the issue could have been avoided and the problem would never have occurred.

Remember if the client or the contractor of a project requests to have something removed to reduce the amount of money in the project, make sure to give him or them a reason why it should remain in the project (stand by your decision) and give your reason why it should not be removed.

Mark G. Mannarelli, Vice President Legislative



AFFILIATES

It's going to be PRODUCT SHOW TIME! Please look for the product show meetings and try to participate. We try to make the show beneficial for all involved. A way to make sure your ideas are heard is to participate. As always, if you have anything you want me to bring up to the board, e-mail or call me and I'll be happy to do so. Thank You!

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



JANUARY MEETING RECAP

The snow season is finally here! Are we having fun yet? 54 members attended the January Dinner.



The Free Dinner Raffle winner was:

George W. Sobyra, from Franklin Electric / Little Giant.

50/50 Raffle winner this month was:

David DeBord from DeBord's Institute of Technology.

The Chicago Chapter donated \$110.00 to The Chicago Food Depository. Congratulations to our winners and thank you all for your participation.

Francisco DeHoyos, Administrative Secretary

fdehoyos@dbhms.com; 312 915.0557 ext. 251



PLUMBING CODES AND THEIR TREATMENT OF RAINWATER HARVESTING

The United Nations has projected that by 2025 water-stressed regions will encompass two-thirds of the countries in the world. The U.S. has already joined the ranks along with China, India, northern Africa and the Middle East as a region that now faces severe imminent water shortages.

In the U.S., we routinely design buildings that use clean drinking water for flushing toilets and for landscape irrigation, although only about 1% of municipally distributed potable water is used for purposes that actually *require* potable water: drinking, cooking, and bathing. Green building practices are becoming more desirable and prevalent, and more emphasis is being placed on water conservation in building design. LEED 2009 is one example of a demonstration of growing appreciation for this vital resource, as water credits have increased significantly from previous versions of LEED Certification requirements. Some of the more common water-conserving strategies that are being implemented include specification of low-flow toilet fixtures including dual-flush toilets, sensor-operated lavatories, and waterless urinals. Other measures include the use of graywater, reclaimed water, and rainwater harvesting (rainwater catchment). Stored rainwater collected from a large catchment surface (such as that provided by the roof of a typical commercial building) is a cost-effective source of water for landscape irrigation and toilet flushing. The use of rainwater as a domestic-water source not only decreases the amount of clean drinking water used by a building, but it also decreases the amount of storm water runoff from the site, which in turn, lessens its effect on erosion and decreases the load on storm sewers and waterways.

Authorities worldwide, including both the Uniform Plumbing Code (UPC) and the International Plumbing Code (IPC), ASHRAE, and others, are writing codes to address alternative water systems. The UPC Supplement was released in January 2010. The IPC will be under the soon to be released International Green Construction Code (IgCC). Even some of these new codes may not directly address *rainwater harvesting systems* as a separate entity. There is still a general misunderstanding of these systems and an apparent reluctance to fully embrace their benefits. Some jurisdictions enforce Appendix J of the UPC reclaimed water as a code for rainwater harvesting systems. It is important to note that rainwater harvesting systems are not reclaimed water systems, and are not graywater. Many local jurisdictions provide guidance in the design of rainwater-harvesting systems. This is an area where the code writing bodies are trying to adapt to what many consider to be a water shortage crisis throughout the world.

While the national standards are currently behind in the realm of the design and installation of Rainwater Harvesting Systems (RWHS), some state and local authorities have issued codes, guidelines, and ordinances to address these systems. A few of the jurisdictions that have developed or are considering developing codes and standards for harvesting systems are Texas, Virginia, Ohio, Kentucky, Hawaii, Arizona, New Mexico, Washington, West Virginia, and the U.S. Virgin Islands (not a state). The UPC and IPC should keep working to fully address the subject of rainwater harvesting and provide guidance to the design community on a national and international level.

David DeBord CPD, LEED BD+C, ARCSA-AP

david.aspe@gmail.com



INDUSTRY NEWS

Happy Leap Year!!! For some, it is an extra day to spend with family and friends but for others, this is a chance to spread your wings and attend an additional conference, symposium, chapter meeting or even go to ARCSA/ASPE Training. See below for the upcoming events within 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>)

OAPI 54th Annual Conference

March 4-7

Dublin, OH

Details: See ASSE website.

TRECO 22nd Annual Cross-Connection Control Conference

March 7-8

Daytona Beach, FL

Details: See ASSE website.

World Plumbing Day 2012

Dates: March 11

Location: EVERYWHERE

National Fire Protection Association (NFPA) (nfpa.org/supdet)

16th Annual Suppression, Detection and Signaling Research Symposium

March 5-8

Sheraton Crescent Hotel, Phoenix, AZ

Cost: \$695 Full Symposium, \$425 Individual Programs

Details: See NFPA website.

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

February Chapter Meeting

Monday, February 6

Will Tell (Holiday Inn), Countryside

11:30am Sign-in, 12:00 noon 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>

12th Annual IFPA-SFPE Combined Fire Prevention Product Show

Tuesday, March 13

Medinah Banquets, 550 N Shriners Dr., Addison, IL 60101

4:00pm – 8:00pm

Cost: Admission is free, cash bar, buffet dinner \$40

Contact: For more information contact Bill Sedlak (SFPE) 312 444.6523, william.sedlak@xlgroup.com, or Scott Sandfox (IFPA) 847 524.8250, scott@foxsprinkler.com.

Details: There will be 2 CEU or Professional Development Classes prior to the show. Classes (to be announced) run concurrently from 3:15 to 4:15 PM and again from 4:30 to 5:30. Classes are limited to 50 attendees. Reserve with Danielle Sandfox 847 524.8250.

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

Illinois PHCC CEU Class

Friday February 24

Heartland College, Bloomington/Normal

Time: 1:00pm – 5:00pm

Cost: \$50

Notes: Must be a licensed plumber to attend. Contact ILPHCC at 217 522.7219 to register.

Illinois PHCC Expo

Friday March 23, 2012

Drury Lane Conference Center, Oakbrook Terrace, IL

Contact: More info to follow

Illinois Chapter of ASHRAE (www.illinoisashrae.org)

Energy Modeling Conference

Tuesday February 14

8:00am – 5:00 pm

University Center of Chicago, 525 S. State Street

Cost: \$125.00 Member Registration, \$150.00 after 12:00 pm

February 10, \$150.00 Non-Member Registration, \$175.00 after

12:00 pm February 10

Contact/RSVP: <http://www.ashrae.org/Events/page/Chicago2012> or www.illinoisashrae.org

USGBC – Illinois Chapter (LEED)

Events Calendar - [http://](http://usgreenbuildingcouncilchicagochapter.roundtablelive.org/calendar/)

usgreenbuildingcouncilchicagochapter.roundtablelive.org/calendar/

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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

ARCSA

The American Rainwater Catchment Systems Association is a 501(c)(3) non-profit organization that was founded in 1994 by Dr. Hari J. Krishna in Austin, Texas, to promote rainwater catchment systems in the United States. Their memberships consist of professionals working in city, state, and federal government, academia, manufacturers and suppliers of rainwater harvesting equipment, consultants, and other interested individuals.

Rainwater Harvesting Workshop
Co-sponsored by ARCSA
February 14-15, 2012
Rosemont (Chicago), IL

This February, ARCSA and ASPE are joining forces to offer a 200-Level Accredited Professional workshop in Rosemont, IL. This **two-day workshop** provides an in-depth review of rainwater harvesting design and installation; outdoor and in-home rainwater use; sanitation for potable uses; rules, regulations, guidelines and restrictions; business management; project planning; site and installation safety; and system construction and maintenance. The course will follow the Texas A&M AgriLife Extension "*Rainwater Harvesting Planning*" manual which attendees will receive at no extra cost. This course is required for those seeking the AP status with ARCSA. There are no prerequisites for the course.

This workshop is also approved by **USGBC** for GBCI Continuing Education credits and will be recognized for CPD re-certification.

Registration now open! [Click here](#) to register today.

What: 200-level Rainwater Harvesting Course

Where: Holiday Inn Express, 6600 N. Mannheim Rd., Rosemont, IL 60018 ([click here](#) for directions, 800 972.2494)

When: February 14-15, 2012

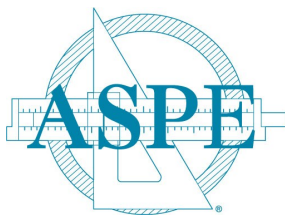
Fee: \$375 for ASPE Members

CEUs: Earn 1.5 CEUs or 15 PDHs for attending the entire workshop

ASPE has negotiated special room rates of \$99/night + tax for this workshop. Call 800 972.2494 and use the code **ASP** to secure this deal. For additional information [click here](#).

http://arcsa.org/calendar_rsvp.asp?eventid=86®istered=0&enter=1

http://arcsa.org/calendar_day.asp?date=2/14/2012&event=86



2011-2012 ASPE Chicago Meeting Schedule

Date	Technical Presentation	Location
<i>September 15, 2011</i>	<i>12 Myths of VFD Booster Systems - Syncroflo/FTI Pumps</i>	<i>Parthenon 314 S Halsted St Chicago, IL</i>
<i>October 20, 2011</i>	<i>Active PH Neutralization/Industrial Waste Treatment Burt Process Equipment</i>	<i>La Villa Restaurant 3632 N Pulaski Rd Chicago, IL</i>
<i>10/27/2011 - 10/30/2011</i>	<i>ASPE Technical Symposium, Orlando, FL http://aspe.org/node/716</i>	<i>Disney World</i>
<i>November 17, 2011</i>	<i>The Need for Water Conservation and the Evolution of High Efficiency Plumbing Fixtures Tim Smith, Engineered Building Solutions</i>	<i>Westwood Tavern & Tap 1385 N. Meacham Rd Schaumburg, IL</i>
<i>December 15, 2011</i>	<i>Booster Night - Patti Vasquez</i>	<i>La Villa Restaurant 3632 N Pulaski Rd Chicago, IL</i>
<i>January 19, 2012</i>	<i>Movie Night and Pizza Party Liquid Assets: The Story of Our Water Infrastructure</i>	<i>La Villa Restaurant 3632 N Pulaski Rd Chicago, IL</i>
<i>February 16, 2012</i>	<i>Primer: Viega Megapress; Black Steel Pipe Joining System Technical: Gas Rebates for Kitchen Equipment and Water Heaters, presented by Nina Newhouser and Kristen Van Kley from Resource Solutions Group followed by Gas Piping for Water Heaters, presented by Steve Montgomery of Lochinvar</i>	<i>Parthenon 314 S Halsted St Chicago, IL</i>
<i>March 15, 2012</i>	<i>Legionella ,Other Waterborne Pathogens and Electric Faucets presented by Delta Faucets</i>	<i>Happy St. Patty's La Villa Restaurant 3632 N Pulaski Rd Chicago, IL</i>
<i>April 19, 2012</i>	<i>41st Annual ASPE Chicago Product Show and Seminars</i>	<i>White Eagle 6839 North Milwaukee Ave Niles, IL</i>
<i>May 17, 2012</i>	<i>Reduction of Lead in Drinking Water Act</i>	<i>Westwood Tavern & Tap 1385 N. Meacham Rd Schaumburg, IL</i>
<i>June 21, 2012</i>	<i>Annual Golf Outing</i>	<i>Hilldale Golf Club 1625 Ardwick Drive Hoffman Estates</i>

If you would like to present any of these topics or become a meeting sponsor, please contact Rick Butler at rbutler@lochinvar.com or 224.238.8515