



Chicago ASPENews



Chicago Regional Chapter of the American Society of Plumbing Engineers
Vol. 46, No. 1 Summer, 2014

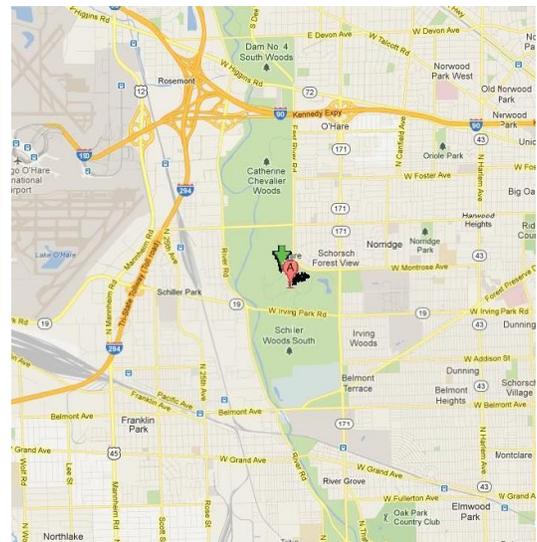


3rd Annual Chicago Chapter Family Picnic and Pig Roast Saturday August 9, 2014 11am—4pm



**Schiller Woods
Grove #12
Cumberland Ave & Irving Park Rd
Chicago, IL**

Same spot as last year's event!



This event is open to ASPE members and their families as a thank you for all the support, hard work, and overall success everyone has put towards this chapter.

There will be plenty of food and beverages. Activities include a bounce house, homebrew competition, bags and much more. Bring your picnic chairs, blankets, your best homebrew and any outdoor games you love, and don't forget your family for this event.

If you are interested in entering your best brew recipe in the homebrew tasting contest, please contact Theresa Allen (TAllen@grummanbutkus.com).

If you or your company is interested in helping sponsor this event, please contact Nevo Martelli (nevomartelli@comcast.net) or me (jnieman@esdglobal.com).

And, if you have any questions or would like any additional information, please contact me. Come on out to network and have fun while meeting your colleagues' families.

Look forward to seeing you there!

John Nieman, PE, CPD, LEED AP, Chicago Chapter Summer Picnic Chair
jnieman@esdglobal.com

Local chapters are not authorized to speak for the Society



PRESIDENT'S MESSAGE

President's Message

Hope everyone is having a wonderful summer. Some major storms, but in general the weather has been really nice. I only think we hit 90° once so far. The lakes are still a bit chilly, but the cool evenings are really nice.

June Recap

Great Golf Outing!! Thanks again for all of Steve Triphahn's hard work. Additionally, thanks to all the sponsors - they are the ones that make this happen for us.

Future Business

ASPE Chicago Picnic August 9th. The Picnic Committee is already hard at work to make this the best picnic ever! I hope to see you all there!

Convention

If you will be attending the full convention, please note early registration ends August 16, 2014. Please register before then to receive the early-bird discount.

ASPE Badges are back

The ASPE Chicago badges are back and have been updated with the new logo. See the website for an order form or contact Theresa Allen at tallen@grummanbutkus.com.

See you all at the Picnic!!

Rick Butler, President

rbutler@lochinvar.com; 224 238.8515



2014 Convention Host Committee Report

ASPE NEEDS YOUR HELP

Hello everyone,



We are looking for approximately 40 volunteers to greet and give out information to the convention attendees at the hospitality room, or at the assigned hotels.

We will assign volunteers to three hour shifts, and you don't have to work every day. This is a once in a lifetime opportunity!

If you are interested in taking part of our 2014 Convention and 50th Year Anniversary Celebration, please sign up by following the link below, or by sending me an email.

<http://tinyurl.com/2014-ASPE-Convention-Volunteer>

Thank you,

Frank Sanchez, CPD

2014 Convention Host Committee Chair

CHAPTER OFFICERS

PRESIDENT

Rick Butler
Lochinvar
224.238.8515
rbutler@lochinvar.com

VICE PRESIDENT TECHNICAL

Mark Mannarelli
Syska Hennessy Group
312.450.6308
mmannarelli@syska.com

VICE PRESIDENT EDUCATION

Matt Pardue
Deery-Pardue Associates
630.350.7575
mpardue@deery-pardue.com

VICE PRESIDENT LEGISLATIVE

J. Francisco DeHoyos
Wight & Company
312.969.7000
aspe.chicago.vpl@gmail.com

VICE PRESIDENT MEMBERSHIP

April Ricketts, PE, CPD, LEED AP
CDM Smith
312.346.5000
rickettsa@cdmsmith.com

VICE PRESIDENT AFFILIATE

Nevo Martelli
nmartelli@262apex.com

TREASURER

Sean Allard, CPD
McGuire Engineers
312.930.2200
sallard@mepcinc.com

ADMINISTRATIVE SECRETARY

David J. Erickson Sr.
Symmons
847.287.0922
derickson@symmons.com

CORRESPONDING SECRETARY

Chris Sbarbaro, PE, CPD, GPD, LEED AP
Consentini
csbarbaro@cosentini-il.com

PRODUCT SHOW CHAIRMAN

TBD

ASPE CHICAGO JOBS PROGRAM COORDINATOR

TBD

GOLF OUTING CHAIRMAN

Steve Triphahn
W-T Engineering, Inc.
224.293.6301
steve.triphahn@wtengineering.com

HISTORIAN

Donald Johnson

NEWSLETTER EDITOR, WEBMASTER & AYP LIAISON

Theresa Allen, P.E., CPD, GPD, LEED AP
Grumman/Butkus Associates
847.316.9285
tallen@grummanbutkus.com

WEBSITE

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

FACEBOOK

<http://www.facebook.com/au.chicagochapter>

<https://www.facebook.com/groups/ASPE.Chicago/>

LINKEDIN

www.linkedin.com/groups?home=&qid=2393408



VICE PRESIDENT, TECHNICAL: TECHNICALLY SPEAKING

I hope that everyone has enjoyed the summer so far. This summer has been quite nice even though we have had some crazy storms pass through our area.

2014-2015 Technical Presentations

I am currently looking for presenters for the upcoming year. Don't be left behind - make it a priority to present and become involved with the ASPE Chicago Chapter. If anyone has a topic that would be of interest to the chapter, now is the time to take the initiative and step above the rest. The following months are still available: January through May! The upcoming year I will do my best to keep the chapter presentations excellent and different from previous years.

Something to Think About

With limited water and an increasing number of people depending on it, water security is tenuous. But integrated water management plans using "blue," "green," and "gray" water can increase water security.

Those are the central questions behind the symposium "Blue Waves, Green Dreams, and Shades of Gray: Perspectives On Water" being held Nov. 5th. The symposium is part of the American Society of Agronomy, Crop Science Society of America, and the Soil Science Society of America's Annual Meetings being held Nov. 3rd-6th in Tampa, Florida.

Blue water is found in lakes, rivers, reservoirs, or aquifers. It is used for many purposes such as drinking water, water for homes and businesses, and irrigation water for agriculture. Freshwater stores are limited, and what's left of blue water must be protected and used sparingly.

Green water is the water available in the soil for plants and soil microorganisms. It can be absorbed by roots, used by the plants to grow, and released back to the atmosphere. The use of green water by crops must be optimized to better utilize this often overlooked resource.

Gray water is water that has been previously used and may contain some impurities. It can come from cities, households, or industries, and it is waste water that is usually treated and discharged. The reuse of gray water for agriculture can decrease the amount of blue water withdrawn from stores and increase the green water available for plants to use.

These three water sources -- blue, gray, and green -- have to be protected and optimized if agriculture is to rise to the challenge of feeding over 9 billion people by 2050 while leaving enough water for other uses. After all, says Rattan Lal, head of the symposium, "There is no substitute for water."

The above story is based on [materials](#) provided by [American Society of Agronomy](#). *Note: Materials may be edited for content and length.*

And Then There Is This

Below is just a funny picture to the right that I thought to share with everyone. The new way to drain a sink (not sure what code they thought would allow this).

So, for now have a great rest of the summer and the Chicago Board will hopefully see all of you at the summer picnic on August 9th.

Remember this is a family gathering, all family members are welcome!

This September is the National ASPE convention at McCormick place in Chicago! Remember to register prior to August 16th for early registration pricing.



Thank you,

Mark G. Mannarelli, Vice President, Technical

mmannarelli@syska.com



VICE PRESIDENT, LEGISLATIVE

2014 State of Illinois Plumbing Code.

The new 2014 Illinois Plumbing Code is in effect as of April 25th, 2014 and NO amendments from ANY municipality are being recognized at this time!

At the June 18th meeting of the Illinois Plumbing Inspectors Association, it was stated that the amendments done by municipalities all over the state will not be accepted. In addition to that code change, a letter was sent to the State of Illinois inspectors warning that if any inspectors do not honor this change and try to enforce local amendments that their inspector's certification will be suspended or even cancelled!

You can find more details of this radical change at the following link: <http://www.ipiassoc.org/june-18th-inspectors-meeting/>

Even if this is the law by the state, before you make a decision to disregard the local amendments for the jurisdiction you are working in, contact the local plan examiners to make sure that they are aware of this change.

Here are some additional changes in the new code:

Section 890.720 Drinking Fountains

- d) Flow Regulator. The water supply for the drinking fountain shall be provided with an adjustable valve fitted with a loose key stop or an automatic valve regulating the rate of flow of water through the fountain so that the valve manipulated by the user of the fountain will merely turn the water on or off.*
- f) Substitution. Bottled drinking water or a water dispensing faucet (water station) may be substituted for a drinking fountain, provided that drinking water is accessible to the public. When bottled drinking water is provided it shall be commercially sealed.*

Section 890.730 Floor Drains/Trench Drains

- b) Continuous trench drains for gas or oil discharges shall have a trapped and vented opening no less than every 40 lineal feet. Intermittent trench drains shall be treated as individual floor drains.*

Section 890.650 Water Closets.

- a) Public Use*
 - 1) Water closet bowls for public use shall be the elongated type, and the seat shall be an antimicrobial plastic open-front seat. Exception: Water closet bowls for public use may have closed-front seats provided that the seat is encased with a clean continuous plastic sleeve for every user.*

Section 890.680 Lavatories

- e) Water Temperature. All lavatory faucets for public use shall be provided with an automatic safety water mixing device to prevent sudden unanticipated changes in water temperature or excessive water temperatures. The automatic safety water mixing device shall be adjusted to a maximum setting of 110 degrees Fahrenheit, at the time of installation.*

Section 890.700 Sinks

- d) Service sinks, mop sinks, laundry trays or similar utility sinks shall be provided with hot water.*
- e) Sinks in laboratories that are not designated for hand washing or personal hygiene may be supplied with cold water only.*

Section 890.770 Dishwashing Machines.

- e) Water Supply Connection. The water supply to commercial dishwashing machines shall be connected through an air gap or by means of proper backflow protection, e.g., a non-pressure type (atmospheric) vacuum breaker or a dual check valve backflow preventer assembly (DuC), depending upon the circumstances.*

We will keep posting code changes, updates, and clarifications on future newsletters.

See you at the picnic.

J. Francisco DeHoyos, Vice President, Legislative
aspe.chicago.vpl@gmail.com

VICE PRESIDENT, EDUCATION

I am looking forward to working closely with the IIT Student Chapter in the next month or so as students begin their fall semester. One of my top priorities for the upcoming ASPE "season" will be to put on several fun education events for both the student and regular chapter members. These events will allow students to network with engineers, have fun and learn more about plumbing engineering.

We are certainly looking forward to the 50th Anniversary Convention coming up in September! The convention will be a great opportunity gain CEU's and valuable product knowledge. We owe the Convention Host Committee a huge **thank you** for all the hard work they have done to ensure the convention will be a great success, a lot of fun and very educational.

Matt Pardue, Vice President, Education

mpardue@deery-pardue.com



VICE PRESIDENT, MEMBERSHIP

August Greetings,

I hope to see all of you at the upcoming Chapter Picnic this month. It is a free family event, with fun games and lots of food. Come and enjoy the fun!

Welcome to all of the newest members of the ASPE Chicago Chapter:

- Raymond Cruz
- Eric Lau
- Jeff Gallagher

Until next time...

April Ricketts, PE, CPD, LEED AP BD+C, Vice President Membership

rickettsa@cdmsmith.com: 312.346.5000



ADMINISTRATIVE SECRETARY

Greetings Members,

We should all be well into the swing of summer events: weddings, swimming, boating, hiking, golf, and company picnics. Speaking of picnics, did you mark your calendar for Saturday, August 9th for the ASPE Chicago Annual Family Picnic? You can find this information and the 2014 ASPE Convention & Exposition on the web at www.chicago.aspe.org.

As I close here is a quick informational fun fact: more than 25% of bottled water comes from a municipal water supply, the same place that tap water comes from.

I'm looking forward to seeing you soon.

David J. Erickson Sr., Administrative Secretary

derickson@symmons.com: 847.287.0922

~JOB OPPORTUNITY~

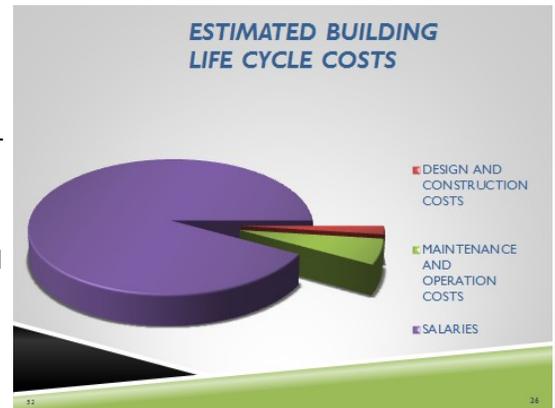
dbHMS is looking for a young Plumbing and /or Fire Protection engineer/designer with 2 years or more of plumbing experience and some Revit experience. We are a progressive company with more to offer than just the usual benefits. We are geared for the future. Let's grow together.

Contact David DeBord for additional information: ddebord@dbHMS.com.

GREEN PLUMBING DESIGNER (GPD) CERTIFICATION

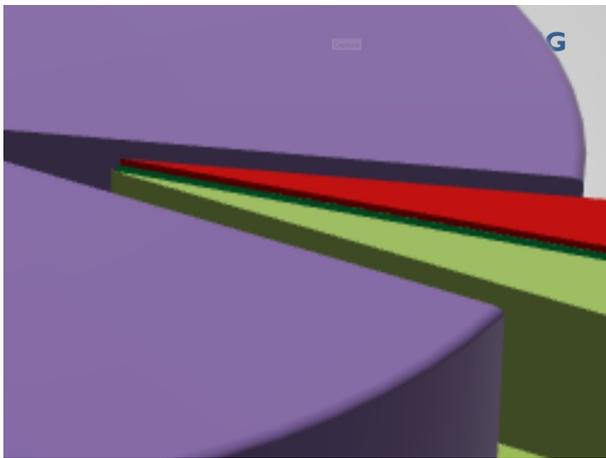
(A joint venture of ASPE and IAPMO)

When doing cost analysis for buildings, we assume that a new building will last for 20 years; which to some would seem like kind of a low expectation. We have observed that the total cost of constructing the building is only about 3% or so of its total cost. But even at that, when we consider the **total embodied cost** of the project, including the construction, maintenance, and the energy needed to serve it for its 20 year presumed lifespan, all of the costs still add up to only about 10% of the total cost. The other **90% of the total cost is the people** that work in the building. Their salaries, benefits, etc. Imagine 1,000 people, making \$100k/year, for 20 years, and we are talking \$2 billion! And that is not even a “BIG” building!



What does that have to do with green plumbing design? Well, obviously it *should* put many worries of cost premiums to rest. But, of course, no one wants to pay more for something than they have to!

Let's take a closer look at the graphic again:



Green building skeptics will argue that it's impossible to build green without paying a big cost premium. But real-world examples show that you can complete a LEED-certified green building project for an average of only 2% more in upfront costs, and sometimes even below standard market construction costs! We need to make the right decisions to make this happen.

But based on what we have seen, if “sustainable” systems add another couple of percent to the construction costs, we are still only talking about less than 5% of the total cost over the life cycle of the building!

Can you even see the dark green slice of the pie? That is how minimal the cost of building green can be! And also remember that the costs associated with the plumbing portion only typically sig-

nificantly less than the rest of the building systems.

So, would like to join your fellow ASPE members and obtain your GPD credential? YOUR next opportunity to join the ranks of GPD, will be at the 50th Annual ASPE Convention in September. Sign up now!



See you at the picnic!

Jack Wasp—CPD, LEED AP BD+C, ARCSA-AP, GPD
Member of ASPE Chicago Chapter m– Airborne Division



CORRESPONDING SECRETARY: INDUSTRY NEWS

For those of you who hold your CPD, PE, or other such certification/license that requires continuing education, I just found out that the attendance list found in each of the ASPE newsletters is NOT considered sufficient documentation by the CPD reviewers. I am one of the lucky CPDs getting audited this year and am going through this process now. It seems the sign in sheet that we use to check into the ASPE meetings is the proper documentation. Once my audit process is over – I will share my experience in a future newsletter article – stay tuned!

American Society of Plumbing Engineers (ASPE)

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

Chicago Chapter Family Picnic

Date: Saturday, Aug 9, 2014 from 11 AM to 4 PM
Location: Schiller Woods East, Grove #12
Cumberland Ave and Irving Park Rd, Chicago, IL
Details: <http://chicago.aspe.org/>

2014 ASPE Convention and Exposition

Dates: September 19-24, 2014
Location: Chicago, IL
Details: <http://events.ntpshow.com/aspe2014/public/enter.aspx>

American Society of Sanitary Engineering (ASSE)

(<http://www.asse-plumbing.org/calendar.html>)

85th Annual IAPMO Education and Business Conference

Dates: Sept 14-18, 2014
Location: Minneapolis, MN - Hilton Minneapolis
Details: <http://www.iapmo.org/Pages/IAPMOConference.aspx>

2014 ASSE International Annual Meeting

Dates: November 3-8, 2014
Location: Skirvin Hilton Hotel
Oklahoma City, OK

National Fire Protection Association (NFPA)

(www.nfpa.org)

NFPA Training throughout the US.

<http://www.nfpa.org/training/events%20calendar.aspx>

American Society of Professional Estimators

(www.aspechicago.org)

No upcoming events listed.

USGBC – Illinois Chapter (LEED)

(<http://www.usgbc-illinois.org/events/event-calendar/>)

See link above for several events.

Illinois Fire Prevention Association (IFPA)

(www.ifpanet.org)

IFPA Annual Golf Outing

Date: Tuesday, Sept 9, 2014 @ 12:00 PM
Location: Not posted

Society of Fire Protection Engineers (SFPE)

(<http://www.chicagosfpe.org>)

Chicago SFPE Chapter Meeting

Date: Monday, Sept 8, 2014
Location: Location and details will be posted online soon...
(http://www.chicagosfpe.org/program_schedule.html)

2014 SFPE Annual Meeting—Professional Development Conference

Dates: October 12-14, 2014
Location: Hilton Long Beach & Executive Center in Long Beach, CA
Details: <http://www.sfpe.org/SharpenYourExpertise/Education/2014SFPEAnnualMeeting.aspx>

Illinois Chapter of ASHRAE

(www.illinoisashrae.org)

2014-15 Chicago Chapter Kickoff Meeting

Date: Tuesday, Aug 19, 2014 @ 5:30 PM
Location: Rock Bottom Brewery
1 W Grand Ave, Chicago, IL
Details: <http://www.illinoisashrae.org/calendar.php>

PAMCANI

(www.pamcani.org)

PAMCANI industry-wide calendar: www.piccal.org

Illinois Association of Plumbing-Heating-Cooling Contractors (ILPHCC)

(www.ilphcc.com)

No upcoming events listed.

Refrigeration Service Engineer's Society (RSES)

(www.rses.net)

No upcoming events listed.

National Rural Water Association (NRWA)

(<http://www.nrwa.org/>)

2014 WaterPro Conference

Dates: October 6-8, 2014
Location: Seattle, WA
Details: <http://www.waterproconference.org/>

Chris Sbarbaro, PE, CPD, GPD, LEED AP BD+C, Corresponding Secretary
csbarbaro@consentini-il.com



Chicago ASPENews



2014-2015 Preliminary ASPE Chicago Meeting Schedule

Date	Primer & Technical Presentation	Location
August 9, 2014	ASPE Chicago Chapter Family Picnic & Pig Roast	Schiller Woods Grove #12 Irving Park Rd & Cumberland Ave Chicago, IL
September 18, 2014	Manufacturer Spotlight: Rinnai America Corporation Presentation: TBD	White Eagle 6839 N. Milwaukee Ave Niles, IL
October 16, 2014	Manufacturer Spotlight: Viega Rain Water Harvesting using Siphonic Roof Drainage Systems	La Villa Restaurant 3632 N Pulaski Rd Chicago, IL
November 20, 2014	Manufacturer Spotlight: Lochinvar Special Fire Protection Systems	Parthenon 314 S Halsted St Chicago, IL
December 18, 2014	Another Fun Booster Night—Game Night!	La Villa Restaurant 3632 N Pulaski Rd Chicago, IL
January 15, 2015	Movie Night	Parthenon 314 S Halsted St Chicago, IL
February 19, 2015	IAPMO - Joint Meeting	Westwood Tavern & Tap 1385 N. Meacham Rd Schaumburg, IL
March 19, 2015	Medical Gas Design	La Villa Restaurant 3632 N Pulaski Rd Chicago, IL
April 16, 2015	Fire Alarm Annunciation Technology	Venuti's 2251 W. Lake Street Addison, IL
May 21, 2015	Open	Westwood Tavern & Tap 1385 N. Meacham Rd Schaumburg, IL
June 19, 2015	Annual Golf Outing	Hilldale Golf Club 1625 Ardwick Drive Hoffman Estates, IL
TBD	ASPE Chicago Chapter Family Picnic & Pig Roast	TBD

If you would like to present any of these topics or become a meeting sponsor, please contact Mark Mannarelli at mmannarelli@syska.com.