



Chicago ASPENEWS



Chicago Regional Chapter of the American Society of Plumbing Engineers
Vol. 43, No. 5
December, 2011



Chicago Chapter Booster Night Thursday December 15, 2011

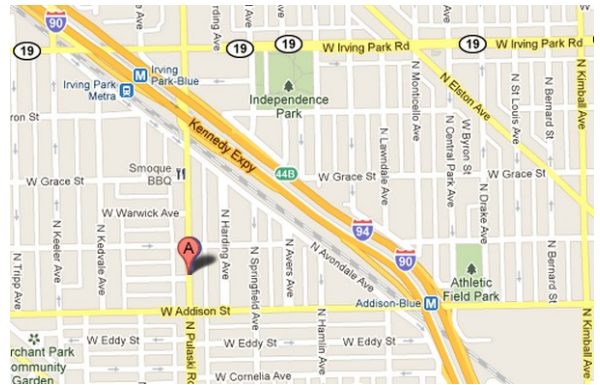


La Villa Restaurant & Banquets

3632 N. Pulaski Road
Chicago, IL 60641

FREE Parking!

HAPPY HOLIDAYS



AGENDA

- 5:30pm - 9:00pm Open Bar: Call Liquor, Beer & Wine
- 5:30pm - 6:30pm Appetizers - Includes the popular "Tower of Shrimp" and other Appetizers compliments of ASPE CHICAGO and our Outstanding Affiliates!
- Elegant Music by Harpist Robin Galante*
- 6:30pm Dinner, **\$35** for everyone; PLEASE **RSVP!**
- 8:00pm Special Entertainment: Patti Vasquez – Comedy at the best – Worldwide comedienne.....



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:

- Tower of Shrimp, and many others

Dinner:

- Salad
- Cream of Roasted Red Pepper Soup
- Filet Mignon
- Pasta
- Mashed Potatoes
- Veggies

Dessert:

- Ice Cream
- Coffee, tea, water, soda



Local Chapters are not authorized to speak for the Society

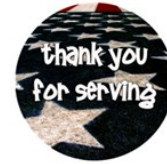


PRESIDENT'S MESSAGE

Support Those Who Support the Chapter

Our November meeting marked the beginning of the holiday season for the ASPE Chicago family. We had our seventh annual Toy for Tots collection and we were fortunate enough to have a pair of brave Marines in attendance.

This was Sergeant Sifnotis' third time attending ASPE Chicago's toy drive and Sergeant Dortch 's first event. They were in charge of picking up the toys and boost our spirits! HUGE thanks to all for supporting this noble program. We had a special discount for all our courageous veterans in attendance, thank you for your serving, for your sacrifices and for protecting our freedoms.



Don't worry if you didn't get a chance to donate some toys during our November meeting because you can bring **new and unwrapped toys** to our December meeting at La Villa! Your donations will make a difference for needy and underprivileged children this holiday season. If for some reason, you can't purchase toys before our December meeting, we will also be accepting cash donations, and we will make sure Santa gets the check!



For more information about the Toys for Tots program, please visit the Marine Toys for Tots Foundation Chicago at <http://chicago-il.toysfortots.org/local-coordinator-sites/lco-sites/default.asp>, or give me a call if you have any questions.

ASPE Chicago has a popular motto, "Support those who Support the Chapter". This is because without our Affiliate members' technical and financial support, our Chapter wouldn't be the mecca of plumbing engineering. Our Affiliate members' support is vital and they play a very important role in our Chapter's success.

Our annual Holiday party, **Booster Night**, is partially possible due to our Affiliate members' contributions. During this holiday party, we enjoy an amazing meal with open bar and amusing entertainment. Yes, they pick up your tab! The remaining cost of the event is partially financed by the ASPE Chicago Chapter. So, please look at the flyers we will have during the event and make sure you thank our Affiliate members for their support.

Our website has plenty of reference material and useful information for your projects.

- ⇒ ASPE Chicago Plumbing Products Directory
<http://chicago.aspe.org/2010-2011ASPEChicagoPlumbingProductsDirectory.pdf>
- ⇒ ASPE Chicago Manufacturers & Representatives Directory
<http://chicago.aspe.org/2010-2011ASPEChicagoManufacturer&RepresentativeDirectory.pdf>
- ⇒ ASPE Chicago Manufacturers & Representatives Index
<http://chicago.aspe.org/2010-2011ASPEChicagoManufacturer&RepresentativeIndex.pdf>

In addition, you will find information regarding the Chicago Chapter Engineering Scholarship Program and the upcoming Plumbing Engineering Basics Class. Thanks to the magic of our webmaster, Jim Moynihan of CT Sales, we recently added links to our Facebook and LinkedIn profiles. Just click on the links below, and make sure you say Aloha to ASPE Chicago's favorite guy, Lau.



I would like to encourage you to read the remainder of our December ASPENEWS. In our newsletters, you will find information about our upcoming technical presentations, industry news, and valuable legislative updates. For those that were not in attendance at the 2011 ASPE Technical Symposium (Oct. 27- 30, 2011) in sunny Orlando, this newsletter also includes a few stories from the people who attended the event.

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

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Donald Johnson

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PRESIDENT'S MESSAGE (cont'd)

We are glad to report that Society did not lose money during this event. The earnings were minimal, but at least we are in the black. During these economic times, all event planners need to pay close attention to the real situation and adapt accordingly. For instance, ASPE Chicago has made numerous budget cuts allowing us to be able to still bring great technical presentations at popular venues to our membership. We would like to thank all the people who worked hard to make the 2011 Symposium a success.

The ASPE Chicago Board of Directors is working hard for you. We are always open to suggestions and recommendations and our doors are always open for even MORE volunteers! Please let us know if you have suggestions for our technical presentations, venues, or events that can benefit our Chapter. For instance, we are discussing a new event, the 2012 ASPE Chicago Family Picnic, ASPE Chicago will update Data Book 1, *Fundamentals of Plumbing Engineering* (we are looking for volunteers to help us update each of the 13 chapters) and let's not forget that the ASPE Chicago Product Show is around the corner, too. Would you like to be involved and help us plan any of these events? Just say the word and we will sign you up! Or RSVP to any of our regular board meetings, they start at 4:00 pm before cocktail hour.

One more thing - we are proud to announce that the Chicago Chapter's very own David DeBord, ASPE VPL, has been appointed to the International Plumbing Code Committee for the upcoming 2012/2013 Code Development Cycle. His term is effective January 1, 2012 and will end December 31, 2014. Congratulations David!

That's it for now; I can't wait to see you all at the ASPE Chicago Booster Night at La Villa! You really don't want to miss this event, it will be better than ever! Don't wait and RSVP to Rick Butler at Chicago.ASPE.RSVP@gmail.com. Happy Holidays!

Frank Sanchez, CPD; President
fxs@grummanbutkus.com; 847.316.9251



TECHNICALLY SPEAKING

First off, early RSVP's would be most appreciated. Especially at this meeting! We are looking at a big turnout, and we are looking to make sure we do not have to set up tables on the fly for this event, thanks for cooperating.

December Meeting Recap:

Thanks again to one of our own, Tim Smith, for presenting. Tim did a great job showing us what needs to be done with high efficiency water fixtures, especially toilets. There was a lot of bad "press" on these items early on; but, we have come a long way since the enforcement of the parameters with what we had in the field. Thanks again Tim for a very informative presentation.

This Month's Meeting:

Holiday Party – what else to say. We are VERY fortunate to have a returning guest, **Patti Vasquez**. Since being here two years ago, she has been traveling worldwide to make people laugh and she does a great job of it. Her humor on everyday family life brings it close to home for all of us. Being a local Chicagoan makes it even more special. This is a can't miss for anyone!! Might even bring my family members for a free Comedy show, you should too!

One last item, Toys for Tots: great response for the Toys that were brought. On a side note, when we had to bring the toys back to the Marines' vans, darn, we had several people to help: you know who you are and thank you. If you didn't get a chance to drop off toys at our previous meeting, please feel free to bring them to Booster Night!

Rick Butler, Vice President Technical
rbutler@lochivar.com; 224.238.8515



NOVEMBER MEETING ATTENDANCE

The following list of individuals attended the November 17, 2011 meeting of the ASPE Chicago Chapter. In accordance with ASPE Society policy, these individuals are entitled to 0.75 RU's towards the required 24 RU's needed every two years to maintain CPD registration. Meeting attendance is also recognized by the Illinois Department of Professional Regulation to count as 1 PDH towards the required 30 PDH's needed every two years to renew Professional Engineering licenses.

Andrew Dailey
Bill Bauer
Bob DiGiuseppe
Bob Turk
Brian Hank
Brian Mazzocchi
Bryan Fonseca
Chris Wisinski
Craig Shannon
Damon Cameron
Dan Courtney
Daniel Patt
Darren Rich
David DeBord
David Erickson
David Lehman
Don D'Agostino
E.J. Kedzie
Ed Lichner
Emily Smith
Eric Dortel
Francisco DeHoyos
Frank Sanchez
George Pagach
George Palermo

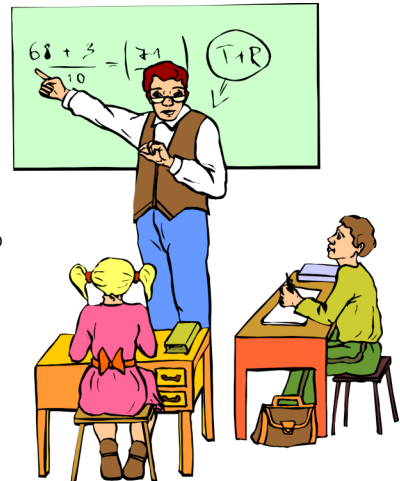
Greg Luczak
Greg Nagrant
Harold Weil
Jack Miller
Jamie Diamond
Jeff St.Onge
Jeremy Cantor
Joe Ficek
John Nieman
John Stanzi
Jon Triphahn
Keith Seier
Ken Cutler
Kent Swanson
Mark Nastra
Matt Pardue
Meghan Johnson
Mel Withrow
Michael Cwanek
Michael Hanney
Michael Owen
Michael Whiteside
Mick Bradford
Mike Imaoka
Mike Ponx

Mike Temes
Nevo Martelli
Paul McLafferty
Paul Riedinger
Pete Sifnotis
Phil Blazic
Phill Kroll
Rick Butler
Scott Jagodzinski
Sean Allard
Shawn McAulliffe
Stephen Lichtman
Steve Adam
Steve Krock
Steve Krueger
Terry LeBeau
Tim Smith
Tom Hamilton
Tom Higgins
Tom Higgins IV
Tom Lange
Tom Ronan
Tony Navarro
Wayne Robinson
Zoya Oberfeld

This printing constitutes our record of who was in attendance. We apologize for any misspelling of names and ask that for future sign-ins, please print legibly. Thank you!

ASPE CHICAGO OFFERS PLUMBING ENGINEERING BASICS COURSE

The Chicago Chapter is proud to begin offering our continuing education course in **Plumbing Engineering Basics**, starting in the **March of 2012**. The course will be held Wednesday nights at the offices of ESD, 175 W. Jackson Blvd. in Chicago. The course consists of two semesters of 8 weeks each, and was last offered in 2008. Those who have participated in previous years overwhelmingly agree that the course was a worthwhile and outstanding value. For course description and information on how to register, see the flyer on the Chicago Chapter website - <https://docs.google.com/viewer?url=http%3A%2F%2Fchicago.aspe.org%2F2012%2520ASPE%2520Chicago%2520Plumbing%2520Basics%2520Class%2520Flyer.pdf> .





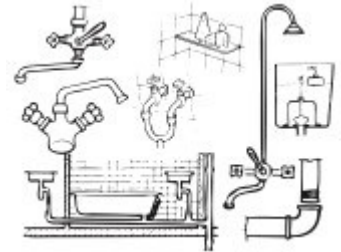
LEGISLATIVE REPORT

Hello again from your friendly VP Legislative. It appears today that the plumbing designer has to look beyond our own borders to bid new projects. Today the bidding process is much more competitive than in years past because of the local and world economy. To survive, companies are looking to expand their client base to compete in today's market. Projects are being outsourced overseas and companies are underbidding the competition just to keep their firms afloat.

The plumbing engineer today has now become more like a diplomat to the world. We have expanded across the Atlantic and to the Middle East in places like Saudi Arabia, Abu Dhabi, Dubai and India. These new regions bring the plumbing engineer unfamiliar "Codes and Standards" and design practices. In the world around us, things are different, from culture (time zones and collaboration between languages) to geography. The plumbing engineer has and needs to look closely at the culture or environment in which the project he or she is designing. This can create many challenges and can complicate the "typical" design. The engineer can't just visit a project site at a moment's notice and review a situation like you can here for local projects. This is a new challenge that all engineers may face in the near future.

For instance, some questions a plumbing engineer might want to consider:

1. Do you require internal domestic water storage tanks and how many days of water storage are required?
2. What is the rainfall rate for the region (yes, Abu Dhabi does have a rainfall rate)? What pipe material is acceptable?
3. Are there any special fixtures that are required?



The answers to these questions may vary from region to region. For example: in Abu Dhabi, Abilution hoses and floor drains are required in each bathroom stall. Also, multi-inlet floor drains with integral traps are used for discharge waste of lavatories, bathtubs and water closets. Each region has specific requirements that the plumbing engineer must address.

Other challenges working outside the United States includes using the metric system for all design work. The engineering toolbox (www.engineeringtoolbox.com) is a great resource for conversions. Also, the plumbing engineer needs to know the applicable codes. ICC and the UPC are usually used here but here are some additional applicable code listings for these regions:

- ◆ Abu Dhabi Uniform Plumbing Code of Abu Dhabi
- ◆ Saudi Arabian Standards Organization (SASO)
- ◆ India National Building Code



I have only touched briefly on the subject of international plumbing design and the importance of becoming familiar with their codes and standards. There are many factors that need to be addressed from the culture of the region to local and regional codes and standards. It is very important from the beginning of any project to ask the right questions for your project to be successful.

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



NOVEMBER MEETING RECAP

How was that turkey? How many pounds are we going to promise to lose as part of our upcoming New Year's resolutions?

The November Chicago Chapter Meeting honored our armed forces - we thanked our veterans for their service. The evening included a round of applause to the Marines we had in attendance for dinner. Thank you for serving!

A total of **79** members were in attendance.

The Free Dinner Raffle winner was: **Bryan Hank of Meilner Mechanical Sales.**

50/50 Raffle winner this month was: **Bob DeGuiseppe of Great Lakes Plumbing & Heating.** The Chicago Chapter will donate \$190.00 to Toys For Tots! Thank you for your participation.

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



CALLING ALL AFFILIATES!

It's time for **Booster Night** again. Thank you to all who have already said they would contribute to **Booster Night**. You should have received an e-mail with the letter asking for Contributions to help defray the costs for the night. Feel free to contact your manufacturers and ask them for a contribution. Deadline to contribute is December 9, 2011. There will be sponsorship recognition at the meeting. Don't miss the best meeting of the year!



If you haven't received sponsorship information, please contact me via e-mail or call and I will send the information to you. Thank You

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

MERRY CHRISTMAS





INDUSTRY NEWS

It is hard to believe that 2011 is about to become 2012. This year has been filled with many trials and tribulations with so many people losing jobs, many losing loved ones and everyone waiting for the economy to turn around. Hopefully 2012 will be the year everything DOES turn around. On a brighter note, thank you to everyone who brought toys and/or participated in the 50/50 for Toys for Tots. It was a huge success and we made a difference for so many families and their children. Onto industry news, 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)

No Report

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

December Chapter Lunch Meeting/Holiday Party

Monday, December 12

Petterino's, 150 N Dearborn Street, Chicago

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

PAMCANI (www.pamcani.org)

PAMCANI has developed an industry-wide calendar listing events throughout the year. Go to www.piccal.org.

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

Illinois PHCC Expo

March 23, 2012

Drury Lane Conference Center, Oakbrook Terrace, IL

Contact: More info to follow

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

No Report

Keith Seier, Corresponding Secretary
kseier@esdglobal.com; 312 456.2338

Illinois Chapter of ASHRAE (www.illinoisashrae.org)

Excellence in Engineering Awards Luncheon

Tuesday, December 6, 2011

12:00noon – 5:00pm

Metropolitan Club of Chicago, Oak Room

<http://www.clubcorp.com/Clubs/Metropolitan-Club/About-the-Club/General-Information>>

Willis Tower, 66th Floor (former Sears Tower)

233 W. Wacker Dr., Chicago, IL

Cost: TBD

Contact/RSVP: https://echapter.ashrae6.org/mtg_login.php or www.illinoisashrae.org

USGBC – Illinois Chapter (LEED)

Events Calendar - [http://](http://usgreenbuildingcouncilchicagochapter.roundtablelive.org/calendar?EventView-Mode=1&EventListViewMode=2&SelectedDate=9/29/2011&CalendarViewType=1)

[usgreenbuildingcouncilchicagochapter.roundtablelive.org/calendar?](http://usgreenbuildingcouncilchicagochapter.roundtablelive.org/calendar?EventView-Mode=1&EventListViewMode=2&SelectedDate=9/29/2011&CalendarViewType=1)

[EventView-](http://usgreenbuildingcouncilchicagochapter.roundtablelive.org/calendar?EventView-Mode=1&EventListViewMode=2&SelectedDate=9/29/2011&CalendarViewType=1)

[Mode=1&EventListViewMode=2&SelectedDate=9/29/2011&CalendarViewType=1](http://usgreenbuildingcouncilchicagochapter.roundtablelive.org/calendar?EventView-Mode=1&EventListViewMode=2&SelectedDate=9/29/2011&CalendarViewType=1)

Refrigeration Service Engineer's Society (RSES)
(www.rses.net)

RSES December Meeting

Frequency Drives and V-Belt Driven Fans

Tuesday December, 13, 2011

7:00 pm

The O'Hare Center, 10275 W. Higgins Rd, Rosemont, IL

Notes: Free Parking, Free Admission



TALES FROM THE 2011 ASPE TECHNICAL SYMPOSIUM



SYMPOSIUM REPORT - MANNARELLI

Well another Symposium has passed us by. One of the classes that I attended was Hydraulic Calculations for Sprinkler Systems. The speaker was very knowledgeable and had a great sense of humor. I was, however, unfortunate not to run across the little mouse that every kid wants to see and hang out with and have breakfast with or maybe even someone named Goofy.

I again had a chance to meet with several people from other chapters throughout the country such as California, Florida, Texas and Philadelphia. Although the Symposium had a low attendance rate (appeared to be from past symposia) the present ASPE board tried new angles to get people involved.

Jim Kendzel who is the current Executive Director/CEO of ASPE made great strides in explaining how the status of the Board and its members are providing substantial headway in making ASPE a world leader among the industry. They are doing their best to make ASPE better than ever for **all** members. For instance; they have provided a free download of the Plumbing Engineering & Design Handbook of Tables **FREE** for all members.

I also attended the Vice President Legislative meeting on Friday morning. We discussed certain codes and standards that ASPE will present to different committee's (IAPMO, ICC, IPC) for approval of certain changes in the clarification of language in the code such as "defining the term lavatory". ASPE currently has a definition for the term and creating additional definitions will confuse the plumbing community.

I again would like to thank the ASPE Chicago Chapter Board for allowing me to partake in this event.

Mark G. Mannarelli, Vice President Legislative



SYMPOSIUM REPORT - ALLARD

Getting to the Technical Symposium can be a chore. I had to get up early to get to the airport on time. I get through security and to the gate only to find that my "equipment", I.E. the plane, will not arrive for two hours. Luckily I like to read. I have this thick book that I have been struggling with for months. It's called Green Building Design and Construction. For those of you who have completed this task, I am real jealous.

So, after spending 6 hours or so with my five pound friend, I arrive in Orlando. The weather is great. It's clear and in the mid-seventies and beautiful. The hotel is nice and I meet up with some friends for dinner. Dinner was great and the company was even better.

The next three days go by quicker than I would have thought. Between the presentations and the conversations with other folks in the industry, I really lost track of the time. The seminars were interesting and well attended. The seminar that I got the most from was Laboratory Plumbing Systems Design. The presenter was well informed as well as an interesting speaker. He answered questions as they arose. He referenced a number of codes and standards in the presentation which will provide me with valuable information.

Overall I had a really good Symposium. I consider myself lucky to be able to have the opportunity to attend these sessions. Every bit of information and skill that I can add to my professional toolbox will help me, especially during these times. It makes the hassle of getting to the Symposium well worth the chore.

Sean Allard, Treasurer

TALES FROM THE 2011 ASPE TECHNICAL SYMPOSIUM



THE ORLANDO SYMPOSIUM - DeHOYOS

The trip to the ASPE national Symposium was instructional and fun. The flight to Orlando was a little bit noisy due to all the kids travelling to Disney World instead of school. I think it was payback for the time when my kids were young and noisy in public places.

The Product Show was attended by all the Symposium sponsors displaying their latest new products, helpful manufacturers' representatives, and equipment designers.

The Symposium technical sessions were very good. Also, I attended the ASPE Design Standards Committee meeting. This meeting was conducted roundtable style where everybody participated with comments and questions - the main focus still is taking advantage of rainwater conservation and using reclaimed water. It is a slow process to change the design standards; but, it is just like the changes to our local building codes, they need time and testing before they are ready to be applied.

"Storm Drain Research and its Impact on Design". This session presented by Julius Ballanco was a big eye opener. Tests and research established that the two factors that should be considered when sizing a storm system are:

1. **Design for a microburst rain load, and**
2. **Design for water ponding on the roof.**

The current criterion for storm drainage design is based on a 100 year/hour rain load. A microburst rain that lasts for 10 minutes can overcome the roof drainage design load and create a rapid accumulation of water on a flat style roof producing ponding and in some situations, due to the depth of the ponding, the roof drain will go from gravity drainage to pressurized drainage which will add stress to the storm pipe system and create integrity loss and/or roof damage. Interestingly, this can occur even if the current design building codes were met. It is time for a storm drainage design change.

The Water Heater Sizing Session. This session was not your average Design 101. The seminar was very helpful and well presented covering everything from the early days of water heating to detailed information about those factors that affect the modern hot water design. For example, a design that includes the use of 0.50 gpm plumbing fixtures, and is more than 15 feet away from the hot water main should be provided with a hot water return system. This is because 15 feet of ¾" pipe will hold approximately 0.5 gallons of water, assuming an additional 8 foot drop to the fixture. Therefore, a 0.5 gpm faucet will have to run for a **whole minute** before the hot water reaches the outlet!

Gizmos & Doo-clads. This session was presented by Julius Ballanco. This is the kind of session that **no** Plumbing Symposium or Convention should be without. A few special devices and specific application inventions for the plumbing industry were shared. Here are a few of them:

Air admittance valves: These are devices with a concealed membrane that will allow air to when negative pressure occurs in the drainage system, replacing the vent through the roof, and consequently lowering the cost of the vent system big time!

Ice jackets: An amazingly cheap solution for frozen hose bibb connections.

Internal Hot Water Recirculation: Specially designed copper tubes and fittings containing a PEX pipe running inside, using the hot water as insulation, reduces the hot water return heat loss to practically nothing.

Some other devices that were presented are not even on the market yet.

BIM 1 & 2. Conducted by Martin Titlow. This was a very well needed session to catch up with the new Revit 2012. The seminars were very complete, from the hands-on applications to the electronic practice exercises and handouts. Revit technology allows the Plumbing Engineer/Designer to develop accurate fixture and material counts, riser diagrams, installation details, and full coordination between trades. In the late 1980's a transition from manual drafting to computer generated drawings took effect. Today BIM systems are the next step in the evolution of construction documents production.

During this ASPE Symposium, not everything was about the plumbing industry and its technical aspects. It was also about learning about each other's families and common interests. After the seminars, we went out for dinner and drinks. Fun and unusual things happened; I was able to relax while others were having fun with a dinosaur in downtown Disney.

J. Francisco DeHoyos, Administrative Secretary

TALES FROM THE 2011 ASPE TECHNICAL SYMPOSIUM

MY ASPE SYMPOSIUM EXPERIENCE – CAMERON

I had a good time, I learned a couple of things, and I feel very fortunate that I got to go. I got to visit with family and friends, some of whom I hadn't seen in too long. The classes were all great particularly the Fire Pump design class. My main takeaway was talk to the Authority Having Jurisdiction and find out what they want, make sure to get any insurance requirements, and make sure your system can handle the pump churn pressure.

I got to have an awesome steak from my favorite steak restaurant Charley's...only where I thought the I-drive location was at was its sister restaurant Fish Bones. The steak was just as wonderful and smoky; they cook over 1200 degree oak and Florida citrus wood fire. If you go to Florida, mostly Orlando or Tampa areas, go to one of these restaurants. Friday night after dinner I got a great picture of DeBord...who knew he was such a paleontology buff?! Saturday we went to another of my favorite restaurants in Florida, The Columbian, with great food and sangria. We looked at a house turned into a pirate ship for Halloween. Afterwards, I found out from my friend who has that FedEx route that the previous owner of the house built the particle board pirate ship façade, moved, sold the house, and the new owners still put it up every year. The original owner stores the wall of plywood in his warehouse the rest of the year.

The Round table lunch was a nice idea on Friday. The lunch tables had topics posted and you had to switch tables a couple times during lunch. I thought it was similar to walking around a product show but with a diverse group of engineers around the table it worked well.

Damon Cameron

2011 ASPE SYMPOSIUM IN ORLANDO - KROLL

Last month I attended the ASPE Symposium in Orlando along with quite a few other Chicago Chapter members. The Symposium occurs on years that there is no Convention and are more of a classroom experience with less formal of a product show. The Symposium is basically three days of classes during the day and fun with fellow ASPE and Chicago members at night.

The classes this year for the Symposium were pretty good across the board. Topics were well varied and covered all aspects of plumbing design, sustainability, BIM, and a few other categories that I have forgotten. One thing different this year is that all classes were three hours long. This was a much better time format for the classes. I have gone to a lot of one and a half-hour classes where the topic is barely explored and the class is about to end. With the three hour classes, each topic can be explored and discussed in depth and allow plenty of time for questions and discussion. During the weekend, every class I was in went the full three hours with plenty of class participation.

Of all five class sessions I went to during the Symposium, my favorite had to be the one on NASA Space Shuttle Plumbing. The class was about all aspects of the space shuttle and launch center. It was quite interesting to think about all the different problems that can arise from trying to pump fluids or collect waste without the aid of gravity. NASA plumbing engineers had to think of new and creative ways to gather waste. They also had to make adjustments to diet so space travel can be a lot cleaner. For example, when in space and in orbit of earth, there is no gravity. So, something as simple as a burp can become quite a mess. When you burp on earth all of the liquids and solids are held at the bottom of your stomach and the gases rise to the top. When you burp on earth the gas is released... no problem. Well when in space, the gravity is not there to help you out. So, if you have a gas build up in your stomach and need to burp... the solids and liquids could be what come out because they are floating all around in random positions in your stomach. In space... there is no difference between a burp and vomiting. It would be a major distraction to have to use a vomit bag every time you felt like burping. So, in order to combat this problem the NASA engineers came up with the best solution by removing foods that cause gas problems. Sorry all you vegetarians out there, but for now you are not going to see a lot of vegetables in space. I believe our space program is totally broccoli and brussel sprout free.

Another very interesting section of the class was about the launch facility and all the plumbing involved. Mixing the liquid fuel products is quite complex and requires hundreds of valves and pumps and miles of piping. One of the most interesting items that is essential for launch is a water dump sprinkler system that flows at 1,000,000 GPM! As the shuttle launches, the engines fire against a solid steel platform and create a resonance wave that would shake the shuttle and fuel tanks to pieces. Well, this platform has a set of towers that spray out the water. The water spray then creates a "soft" launch surface that absorbs the engine resonance and allows the shuttle to actually fly. So, without plumbing systems flowing water, we couldn't make it into space.

When people think plumbing, they often just think toilets and faucets. There is really a lot more to plumbing than a lot of people never even consider. It is our job to tell them all that plumbing does for them and maybe some interesting stories about burping in space...

Phill Kroll, Product Show Chairman

TALES FROM THE 2011 ASPE TECHNICAL SYMPOSIUM

TECH SYMPOSIUM 2011 - DeBORD

Although I was working at the Technical Symposium, I did have the opportunity to attend some technical sessions. One of the best that I attended was on Siphonic Roof Drainage. We really need to get this going in our area. We are way behind the curve on this one. It is more efficient, less expensive, and can provide greater safety than conventional storm systems. Please consider exploring this option. Several top manufacturers have components for these systems and the software to design them. We have local reps who can help you with this quest.

I also enjoyed a session on Fire Protection Hydraulic Calculations. This is another area where we are expected to apply more technical effort into our designs. The trend is to require a higher level of technical expertise and NICET Certifications for designers of fire protection systems. ASPE is one organization that can help you find the training that you need.

The Technical Symposium is behind us; but, our 2012 ASPE National Convention in Charlotte is just about 10 months away! Start planning for it now. Maybe your employer does not recognize the huge benefits that they reap from sending you to these events. If that is the case, save up some vacation time because this is the biggest bang for the buck to increase your value in this industry. The networking experience itself can be eye opening. Every event, local or national, that you miss, is a missed opportunity.

Competition is getting tougher in these times of economic strife. Build your skills by attending the ASPE functions. Of course this starts right in with our own Chicago Chapter. Our Chapter provides some excellent training opportunities right here in our own back yard. Attend the technical sessions at the general meetings and the product show. Or take it to the next level by volunteering to help with these sessions, or work on committees, or maybe write or contribute to a chapter in the Plumbing Engineering Design Handbook (PEDH) series. We are always looking for volunteers.

Take advantage of these ASPE member benefits and you will grow. Guaranteed.

David E. DeBord, ASPE Vice President Legislative

TECHNICAL SYMPOSIUM - TAYLOR

Because this was my first Symposium, I wasn't sure what to expect. But, I quickly learned that the seminars were very informative, and I especially enjoyed the Medical Gas Design that covered the changes to NFPA 99 for 2012.

Even though there wasn't much free time to explore Disney World beyond the neighboring downtown Disney, I was able to visit the town of Celebration one evening with some of the other attendees--which was quite the experience.

New to the Symposium were the 'Roundtable Discussions', where various topics were discussed as a great way to learn about issues and gain insight from different professional perspectives. I also am looking forward to the ASPE Research Foundation publishing its data on storm drainage and the Hunters Curve, as both will have great effects on how plumbing systems are designed.

It appears that the new ASPE Board is taking great strides to take ASPE and plumbing engineering profession to the next level with various partnerships with other organizations in the industry such as with IAPMO to develop a "Green Plumber Certification" (sort of the equivalent of a LEED AP for plumbing engineers and designers). Thank you for the opportunity to attend the Symposium this year, it was a wonderful experience and hope to attend many more in the future.

Brandon Taylor

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>Related to Plumbing Industry</i>	La Villa Restaurant 3632 N Pulaski Rd Chicago, IL
February 16, 2012	<i>Legionella and Other Waterborne Pathogens and Electric Faucets</i> <i>Discussion on new ASHRAE Legionella Code</i> Presented by Delta Faucets	Parthenon 314 S Halsted St Chicago, IL
March 15, 2012 	<i>Gas Rebate Program for Water Heaters and Kitchen Equipment</i> <i>NICOR</i> <i>Plus gas piping for Water Heaters</i>	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>Sales for Engineers</i> <i>Emergency Wash Stations</i> <i>Reduction of Lead in Drinking Water Act</i> <i>Tour related to plumbing</i>	Westwood Tavern & Tap 1385 N Meacham Rd Schaumburg, IL
June 21, 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