General Meeting
Thursday January 15, 2009

Rosewood Restaurant and Banquets
9421 W. Higgins Road
Rosemont, Illinois
**Free Parking

AGENDA

5:30pm-6:30pm  Cocktail Hour, *Cash Bar*

6:00pm-6:30pm  Primer - Acid Waste and High Purity Piping; Zurn Acid Waste Piping

6:30pm  Dinner - $30 Members / $35 Non-Members

MENU

- Caesar salad
- Sliced tenderloin with wild mushroom sauce
- Chef’s seasonal presentation of potato and vegetable
- Coffee and tea
- Chocolate mousse

7:45pm  Technical Program - Alternative Venting Methods - Venting Beyond Individual Fixture Venting; George Swietczak, Village of Villa Park Plumbing Inspector

RSVP as soon as possible to Bruce Weiss, VP Technical!

- Return the enclosed card for those of you getting this via US Mail
- Call 312 212.2022
- Fax 312 212.6401
- Email Chicago.ASPE.RSVP@gmail.com

Local Chapters are not authorized to speak for the Society
PRESIDENT’S MESSAGE

Happy Winter Solstice, and all of the other holidays of the season! It’s been really really REALLY cold so far; so, I am hoping for an early Spring to balance it out! Where’s that Global Warming that everyone is bragging about? Remember this though; the days are already getting longer, so spring is right around the corner. And of course, that means that the Product Show is coming soon. If you are an Exhibitor, be sure to get your paperwork in ASAP. If you are a spectator, mark your calendar and be there for the seminars and the Show.

Watch for announcements of the Product Show Committee meeting! We have had 2 of them already. Only 3 of us came to the first meeting, which is ok, but I thought you would like to share in the fun! Frank Sanchez (THANKS FRANK!) is the Product Show Chairman again this year, so contact him if you have any questions or comments. NOW is your chance to get your $0.02 in! HAPPY HOLIDAYS!

Another great meeting is planned for January! January 15, 2009. Mark your calendars! We will return to Rosewood. Please see the front page for additional information. PLEASE RSVP! It is impossible for us to know how many to plan for if you don’t RSVP. We are pretty good at it but we can get caught with too much food, or not enough. Please help. BE THERE, or BE SQUARE! Or BOTH even! THANK YOU!

AWESOME BOOSTER NIGHT!!!
Vito Zatto was very entertaining! He was good at finding people that looked like “celebrities”. We had no technical presentations, no primer, no CEU’s, but ......free beverages, lots of food, and plenty of laughs! It was a great time and we had lots of networking opportunities. We had 104 people at this meeting! We hope that you didn’t miss it!

THANK YOU, BOOSTER NIGHT SPONSORS!!!!!

PLEASE SEE THE LIST OF SPONSORS, ELSEWHERE WITHIN THIS NEWSLETTER! AND DON’T FORGET TO THANK THEM!

Toys for Tots Update
We collected a whopping $1015.00 for Toys for Tots! PLUS a gazillion toys! That’s a record! Thanks to all who contributed but especially to Mike Imaoka, Lori Abbott, and Bob Jackson, all of whom contribute cash on-the-side! I hope Santa showers you with gifts this season!

David DeBord, CPD LEED AP; President
ddebord@esdesign.com; 312 456.2359

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Donald Johnson

WEBSITE
http://www.aspe.org/Chicago
("C" is required)

MEMBER UPDATE

Long time ASPE Chicago member, Herb Hymen, has been having some health issues lately. Please keep him in your prayers and hope for a speedy recovery.

Also health issues have been bothering our friend Norman Parks, ASPE Vice President Technical. Please keep Norman and the Parks family in your prayers.
BOOSTER NIGHT RECAP

We had 104 People show up to dinner. This is great and I want to thank the great service of LaVilla for helping it all come together. Because of the weather and previous experience we have had and having to buy many, many meals we cut the meal guarantee back to 70. When it became evident that there was no snow storm we ended up with 104. Without LaVilla and their ability to make 34 meals, the last 34 people would have had NO dinner. Your RSVP is very important; we are considering a nominal deposit in the future.

The dinner was fantastic as always at LaVilla and the pyramids of shrimp were destroyed very quickly. The chateaubriand was extraordinary!

Let’s hear it for Vito Zatto!! Vito was recommended by Gwen, the hostess at LaVilla and I got to tell you I think this guy was great! I really liked that he preformed all through dinner and just kept the show going. He was very interactive, and let me see my fellow ASPE members having a great time. My favorite part is “I need three volunteers and I’m going to pick.” To all the “volunteers” thanks for being such good sports.

Toys for Tots
A big Chicago chapter thanks to everyone who brought a gift and participated in the November and December 50/50 raffles. We gave close to $1000 in cash and a huge pile of toys to those less fortunate.

Where did the Marines come from? I want to thank an old acquaintance for assisting me in getting the marines of the 2nd Battalion, 24th Marines Reserve Center to come pick up our toys and donations. Gunny "Ski" sent two fine young marines to pick up our stuff in dress blues, but hung out and socialized for a while.

Special thanks section
I normally do not call out special people; but, these two really did great big heart things and I think they should be acknowledged for it.

Lori Abbott for just giving, whatever it was - it's between you and G-d; but thanks anyways for that extra donation at the end.

Robert Jackson who gave his 50/50 winning (it was a lot of $$$) to Toys-for-Tots. Former President Bob that was just a damn nice thing to do.

Also a quick shout out to Mike Imaoka who also donated his 50/50 winnings from the November meeting to Toys for Tots.

A final note on Booster Night:
Vito came to you courtesy of all the Affiliates who donated $50 each for a total of $1700. It so happens that is exactly what we needed to buy Vito. Dick Simms will talk more about the Affiliates in his article.

The low cost of dinner came to you courtesy of the Chicago Chapter of ASPE. This dinner cost was well above that of a normal monthly meeting, and the Chapter subsidizes the difference as a year end present to all who attend.

*****Note: Since this was not a normal business meeting and no CEU’s are awarded attendance will not be printed this month.

JANUARY MEETING

Primer
Acid waste and high purity piping systems, Presented by Zurn Acid Waste Piping.
This will be a general overview of the products offered for Acid waste and high purity piping systems. An overview of the general piping materials and the joining methods will be discussed as well as where each type of material is to be used and relative cost options of each.
JANUARY MEETING (continued)

Technical Presentation
Alternate Venting Methods- Venting Beyond Individual Fixture Venting, Presented by George B. Swietczak, Plumbing Inspector for The Village of Villa Park, Illinois. The seminar will address the venting methods other than individual venting and common venting of fixtures. Combination waste and vent, circuit venting, island, wet and stack venting will be discussed along with diagrams to illustrate the proper usage and application. All of these alternate venting methods are listed in the Illinois State Plumbing Code.

A little background on George:
George started in the plumbing industry as a Local 130 apprentice in 1968, becoming a journeyman in 1971. In 1990, he was chosen by Local 130 and The United Association and The US Department of Labor to lead the instruction of Poland's Solidarity Plumbing Instructors. He is also a plumbing program instructor for the Associated Building Contractors Association since 1992, having taught each and every level I thru IV. Ninety nine percent of the students from his classes have received their plumber's licenses on their first attempt.

Please RSVP for the January meeting at Chicago.ASPE.RSVP@gmail.com. Remember that all RSVP's received at least 48 hours prior to the meeting will be included in a free dinner drawing! I hope to see you at Rosewood on January 15.

Bruce Weiss, CPD LEED AP; Vice President Technical
bweiss@aeieng.com; 312 212.2022

CHICAGO CHAPTER MEMBERS,
This is your friendly ASPE Treasurer wishing all of the CHICAGO CHAPTER a glorious, safe and bright holiday season. Thanks again to a great turn out at our December meeting! The Chicago Chapter Board would like to thank our manufacturers’ reps for their continued support for Booster Night. Hopefully, everyone enjoyed the night with Vito Zatto and the many of our celebrities who attended.

To those getting billed for meeting dinners, please remember to always to send a copy of invoices with your payments. It makes my life easier!

Thanks and have a joyous holiday,

Mark Mannarelli, Treasurer
mmannarelli@esdesign.com; 312 456.2354

HAPPY HOLIDAYS FROM YOUR ADMINISTRATIVE SECRETARY

Happy Holidays everyone! I hope all of you had a great time at our annual ASPE Chicago holiday party and enjoyed my performance as well as Vito Zatto's (just kidding). This time, the 50/50 raffle winner was Bob Jackson of Cosentini. Bob donated his winnings back to Toys for Tots. Congratulations, Bob, and thank you.

As always, truly yours

Natalia Dankanich, Administrative Secretary
nkd@grummanbutkus.com; 847 328.3555 x208
FELLOW AFFILIATES

Thank you to all who sponsored Booster Night this year. Your contributions helped get some Grade A entertainment in the form of Vito Zatto AND helped everyone have a wonderful time. Remember, the Engineers will support those who support them!

Following is a list of our Boosters.

Richard Simms, Affiliate Liaison
dsimms@deery-pardue.com; 847 910.8873

2008 ASPE BOOSTER NIGHT SPONSORS

<table>
<thead>
<tr>
<th>Applied Mechanical Sales</th>
<th>Mid-Continent Marketing</th>
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<td>Metropolitan Industries</td>
<td>Viega</td>
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SUPPORT THOSE WHO SUPPORT THE CHAPTER
(click on the names for company emails or websites)
**LEGISLATIVE CORNER**

The Great City of Chicago Plumbing Code “Informal” Interpretations

At work, I created a binder that I use as a quick reference. This binder has friction information, calculations and conversion factors, RPZ discharge rates and a few random charts that I should throw away some day.

Also, I have a “cheat sheet” that I refer to whenever I work on a project located in the City of Chicago. I received this “unofficially released” reference sheet a few years back and my goal is to consolidate this information and submit it to The City of Chicago Plumbing Bureau for approval.

I will cover some topics on each monthly newsletter. I am looking forward to hearing back from you with comments or reprimands to these informal interpretations.

Please remember that you should check your local codes and contact the authorities having jurisdiction because they have the final word on code interpretations.

The City of Chicago Plumbing Bureau can be reached at 312.743.7477

**PART II - Point of Use Water Heaters**

We are all very familiar with point of use water heater installations on tenant build outs, pantries, kitchens, small bathrooms, janitor closets, and even for hot water recirculation systems. However, “The City” has particular regulations that apply to the water heater installation and sometimes they are misunderstood. Article V, 29(18-29-501).

1. Point of use Water Heater when installed in a cabinet must have a 36” deep minimum cabinet.
2. Provide a safe pan (24 gauge metal) piped to a drain. (*)
3. Temperature and pressure relief valve (ANSI Z 21.22) with a separate discharge piping (*)
   a. This means you cannot combine the T&P discharge piping with the safe pan drain piping. This is something that you should show on your details or riser diagrams to avoid conflict.
4. Provide an approved thermal expansion tank (NSF/ANSI 61 rated) in the cold water piping between the shut off valve and the heater. (*)
   a. The City considers that all high rise booster systems create a closed system. Therefore, we are required to protect the domestic water heater from the effects of thermal expansion by providing a thermal expansion tank.

**I don't necessarily agree when I am forced to provide a thermal expansion tank on a small 5 gallon or even 2 gallon water heater. I.E, a 5 Gallon heater dedicated to a pantry at the 8th floor, will expand 1.5% (0.075 gallons) at 140 F working temperature. I don't see how this small load will create a hazard or damage the fixtures/heater when the RPZ is located at the basement level (8 floors below). I consider that this heater will create such a small increase in pressure that it could be easily absorbed by the system (on a case by case basis). However, when in Rome do as the Romans do and provide the thermal expansion tank. What do you think?**

b. As a designer you should make sure that there is no shut off valve installed on the cold water piping to the Thermal Expansion (TE) tank. If this valve is left closed, it will disable the thermal expansion capabilities of the tank. Therefore, don’t show it on your risers and make sure it doesn’t get installed in the field.
5. Means of draining (open site drain, floor drain, etc) (*)
   a. Note that you should not use a Mop Basin to discharge the T&P. Section 18-29-607.1 prohibits water exceeding 140F from discharging into any plumbing fixtures. Also, note that this high temperature water discharge will definitely create a scalding hazard.
6. Water heaters installed at an elevation above the fixture(s) served or **bottom fed** requires an approved vacuum relief valve conforming to ANSI Z21.22. Section 18-29-504-2. (*)
7. Water storage tank heaters require a temperature of 140F.

(*) Note: Most of these requirements apply to instantaneous point of use electric water heaters. (*)

(continued on page 7)
LEGISLATIVE CORNER (continued)

Feedback and Questions
During our last meeting, I was speaking to Sean Allard from ESD, regarding thermostatic mixing valves (TMV’s) requirements for sinks at pantries. Interestingly enough, on the “cheat sheet” I received from the City of Chicago, there is a particular section covering this topic.

“Kitchen sink faucets water supply requires an ASSE/ANSI 10106 or 1017 listed tempering valve set to 120F to protect individual users. Do not confuse with the 110F maximum temperature requirement for public lavatories (IL State code 890.680).

18-29-501.8 Temperature controls. All hot water supply systems shall be equipped with automatic temperature controls capable of adjustments from the lowest to the highest acceptable temperature settings for the intended temperature operating range. Multiple temperature hot water supply systems shall be provided with thermostatic mixing valves to control the desired temperatures

A few things to consider regarding this topic are:

- Architects provide wheelchair access to some of these sinks (front or side access).
- Plumbing engineers provide sinks that have the appropriate ADA depth (6½” max), faucets with lever, paddle and infrared faucet controls that make turning the water on and off easy for anyone with a disability.
- The water heater should be set below 140F since at this temperature, it will take 5 seconds to obtain a 2nd or 3rd degree burn.

The Chicago Plumbing code is a little obscure on this topic and I don’t have a final answer from the City yet (stay tuned!!!). However, the engineer or designer should analyze all the aspects of the project and requirements on a case by case basis. I would suggest providing a small TMV below the sink if you have a point of use heater, especially if you are already complying with other ADA requirements.

As plumbing engineers we have to remember that a plumbing code is a minimal requirement and it is up to us to understand the specific requirements of each project. Also, these point of use thermostatic mixing valves are extremely affordable - consider that for $100 extra you will avoid possible headaches and court fees.

As always, please feel free to email me with your comments or suggestions.

Regards,

Frank Sanchez, CPD; Vice President Legislative
fxs@grummanbutkus.com; 847 328.3555 x251

<table>
<thead>
<tr>
<th>TEMPERATURE OF WATER IN DEGREES F</th>
<th>MINIMUM TIME FOR FIRST DEGREE BURN</th>
<th>MIN. TIME FOR SECOND OR THIRD DEGREE BURN</th>
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<tr>
<td>111</td>
<td>5 hours</td>
<td>7 hours</td>
</tr>
<tr>
<td>116</td>
<td>35 minutes</td>
<td>45 minutes</td>
</tr>
<tr>
<td>118</td>
<td>10 minutes</td>
<td>14 minutes</td>
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<tr>
<td>122</td>
<td>1 minute</td>
<td>5 minutes</td>
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<td>131</td>
<td>5 seconds</td>
<td>25 seconds</td>
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<td>140</td>
<td>2 seconds</td>
<td>5 seconds</td>
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<tr>
<td>149</td>
<td>1 second</td>
<td>2 seconds</td>
</tr>
<tr>
<td>158</td>
<td>-</td>
<td>1 second</td>
</tr>
</tbody>
</table>
THE PRODUCT SHOW WILL BE HERE IN ONLY 4 MONTHS!

I hope you all have a great 2009! A new year means a new Product Show, too, and it will be here before we even know. Mark your Calendars for:

38th ANNUAL ASPE CHICAGO CHAPTER PRODUCT SHOW
Thursday, April 16th, 2008
WHITE EAGLE RESTAURANT
6839 Milwaukee Avenue, Niles, Illinois

Weather and location were probably the main culprits for the low attendance we had at the first meeting. So, I decided to meet on the first Tuesday after our regular meeting and at a commonly known place, La Villa.

We had our first Product Show meeting at Hopleaf on December 15, 2008. Even though, we were only 3 people, we analyzed possible ways to improve our Show. Thank you to Mr. David DeBord from ESD and Peter Wu from Lehman Design for attending.

Product Show Seminars
I am working on a list of potential technical seminars. What seminars would you like to see? Is there a particular topic you feel our membership should be aware of? Do you know of new codes, standards or products?

As an exhibitor or manufacturer, if you have any suggestions please email me or call me before your competition does! Remember that all presentations must be non-proprietary.

Feedback and Possible Changes
- What do you think about dinner? Should we cancel it? Should we provide food at the floor and end the Show earlier?
- Do you know of other locations that can accommodate our show?
- What do you think about hosting the Product Show every two years instead of every year?
- How many shows do you attend per year and how much do you pay per booth at other events? How do they compare to the Chicago Chapter PS and technical seminars?
- What about the seminars time frame? Should we start later and finish later to keep the seminar attendees at the Show?

Volunteers
- I am in search of a web savvy person to study the possibility of online registration and create online surveys.
- Call our past exhibitors to update their contact information and confirm Show attendance.
- Map our membership workplace locations and use this to propose alternate Product Show locations.

Second Product Show Meeting - Save the Date
Date: Tuesday, January 26, 2009
Time: 6:30 PM
Location: La Villa Restaurant and Banquets
3636 North Pulaski Road
Chicago, Illinois 60641

Note that our Product Show meetings are open to all who are interested and our Chapter will provide snacks and beverages.

Frank Sanchez, CPD, Product Show Chairman
c/o: Grumman/Butkus Associates
820 Davis St., Suite 300
Evanston, IL 60201
Phone: 847.328.3555 Ext: 251; Fax: 847.328.4550
fxs@grummanbutkus.com; http://www.aspe.org/Chicago/index.htm
ASPE PRODUCT SHOW MEETING REVIEW

Hey everyone, I just wanted to give a few quick comments about the ASPE Product Show Kick-Off Meeting on December 15. It was a very productive meeting and started the year off well. There were ideas thrown around for ways to improve the Product Show and to make it even more successful. The Show is put on for ASPE members and the plumbing community at large, and anyone who has ideas for the Show and/or would like to volunteer are very welcome. The meetings are informal, and everyone has a great time. If you have ever been interested in how the Show works or would like to throw in your two cents, please stop by the next Product Show Committee meeting. It will be a blast! Check out Frank Sanchez’s article for meeting dates and locations!

Peter Wu
pwu@lehmandesigninc.com

CORRESPONDING STUFF

SFPE, www.chicagosfpe.org
Chicago SFPE & Illinois Fire Inspectors Association - The Structural Stability of Engineered Lumber in Fire Conditions
Monday, January 12, 2009
11:30am sign-in with lunch at noon
Cost: $30 non-members; $25 SFPE Members
Speaker: Chief Edgeworth who is the Director of Training for the Chicago Fire Department; 1.0 PHD credit will be applied
Reservations: Alicia Estrella – Alicia.estrella@saralee.com or 630 598.8420

ASHRAE, www.illinoisashrae.com
ASHRAE Winter Meeting – Sustainable Urban Design
January 24-28, 2009 – Palmer House Hotel, Chicago
If you are registering for the ASHRAE Winter Conference and would like hotel reservations at the Palmer House Hilton please notify ASHRAE at meetings@ashrae.org. Hotel reservation information will be sent to you once your conference registration has been received.

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For registration go to www.illinoisashrae.org

Happy New Year!

Jerry Fields; Corresponding Secretary
jerry@luczak.com; 847 781.5100
AS I KNOW IT - ALTERNATIVE WATER SOURCES

There are many “alternative water sources” that are available to us. Local codes may not address these sources, or may limit or even prohibit their use, but if we ENGINEER a system, we may be eligible to apply these alternatives to our projects, under the “Engineered Systems” category. This needs to be addressed on a case-by-case basis at this time. We are working on developing standards which may be accepted by code authorities sometime in the near future. It is likely that in Chicago, a trip to the Bureau of Standards and Testing will be required. Here is some information about some of these sources:

<table>
<thead>
<tr>
<th>Source</th>
<th>Definition</th>
<th>Typical Uses</th>
<th>Requirements</th>
<th>Pros &amp; Cons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greywater</td>
<td>Wastewater collected in buildings from showers, bathtubs, clothes washers, and lavatory faucets (but never from toilets and usually not from kitchen sinks or dishwashers)</td>
<td>Non-potable; usually used for subsurface irrigation</td>
<td>Separate wastewater drainage lines for graywater and blackwater, a filtration system, and usually storage; sometimes fed directly into subsurface irrigation piping</td>
<td>+ Reduces demand for freshwater + Water volumes can be large + Can provide irrigation during droughts + Difficulties with permits + Cost of dual piping + Risk of smell + Maintenance requirements</td>
</tr>
<tr>
<td>Rooftop rainwater harvesting</td>
<td>Rainfall collected from a roof surface</td>
<td>Non-potable; used for toilet flushing, irrigation, makeup water for cooling equipment; potable if adequately treated</td>
<td>A gutter system to channel rainwater into a cistern or rain barrel, often first flush and filtration systems; treatment for potable uses</td>
<td>Most practical in climates that receive at least 20” (50 cm) of rain per year + Reduces demand for freshwater + Rainwater is generally softer than well water + Avoided energy for pumping (if gravity-fed from a cistern) + When rainwater relied on as sole potable water system, adequate storage is expensive</td>
</tr>
<tr>
<td>Landscape scale stormwater harvesting</td>
<td>Stormwater collected on parking areas or other low-permeability landscape surfaces and stored in retention ponds</td>
<td>Non-potable; used for toilet flushing, makeup water for cooling equipment</td>
<td>Topography that channels stormwater into retention ponds, mechanism for withdrawal and use</td>
<td>+ Reduces demand for freshwater + Fairly low cost + Difficult to manage a stored water due to evaporation, vegetation</td>
</tr>
<tr>
<td>Air-conditioner condensate</td>
<td>Condensate captured from the evaporator coils of air-conditioning equipment or dehumidifiers; the condensate is moisture removed from indoor air</td>
<td>Non-potable; used for toilet flushing, irrigation, makeup water for cooling equipment</td>
<td>Drainage of condensate lines into storage for later reuse; only feasible in areas with adequate indoor humidity levels (not as feasible in much of the western U.S.)</td>
<td>+ Reduces demand for freshwater + As distilled water, condensate is initially very pure + Water volumes can be large + Potential for contamination of stored condensate and condensate lines</td>
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<tr>
<td>Mechanical equipment blowdown</td>
<td>Water bled from cooling towers and other mechanical equipment</td>
<td>Non-potable; depending on dissolved minerals and contaminants, may be used for irrigation</td>
<td>Collection and storage components integrated with cooling towers or other sources of blowdown water</td>
<td>+ Reduces demand for freshwater + Water volumes can be large + Most blowdown water has high mineral content or other contaminants</td>
</tr>
<tr>
<td>Treated wastewater (building scale)</td>
<td>Onsite treated wastewater (graywater and blackwater), producing nonpotable water</td>
<td>Non-potable; used for toilet flushing, irrigation, makeup water for cooling equipment</td>
<td>A sophisticated onsite treatment system employing biological action, microfiltration, sometimes reverse osmosis, UV or chemical purification; ecological wastewater treatment may be employed</td>
<td>+ Reduces demand for freshwater + High installation cost + Sludge disposal remains + Can be energy intensive</td>
</tr>
<tr>
<td>Treated wastewater (municipal)</td>
<td>Outflow from a sewage treatment plant after tertiary treatment and purification; distributed from water utility through separate piping for nonpotable uses</td>
<td>Non-potable; used for toilet flushing, irrigation, and makeup water for cooling equipment; may someday become acceptable as potable water</td>
<td>Separate supply plumbing for potable and nonpotable water; some water utilities provide such piping—most commonly tied to dedicated landscape irrigation systems</td>
<td>+ Reduces demand for freshwater + Energy savings compared with potable water use + Potential that treated wastewater is unsanitary or dirty</td>
</tr>
<tr>
<td>Desalinated water</td>
<td>Freshwater produced by removing salts from seawater or brackish water</td>
<td>Potable; generally too expensive for nonpotable uses</td>
<td>Most desalination plants use reverse osmosis—forcing salt water through a specialized membrane that excludes salts</td>
<td>+ Reduces demand for freshwater + Virtually unlimited supply + Energy intensive + Potential for increasing salinity in bays or evaporation ponds where desalination backwash is deposited</td>
</tr>
</tbody>
</table>

* "I should've been a plumber."  
  - Albert Einstein

David DeBord, CPD LEED AP; President  
ddebord@esdesign.com; 312 456.2359
HAPPY NEW YEAR
from your
ASPE CHICAGO BOARD OF DIRECTORS

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<table>
<thead>
<tr>
<th>DATE</th>
<th>PRIMER</th>
<th>TECHNICAL PRESENTATION</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 18</td>
<td>Zero Power Fixtures; Repco Associates</td>
<td>Plumbing Fixtures and LEED; Kohler Company</td>
<td>LaVilla 3638 N Pulaski Chicago</td>
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<tr>
<td>October 16</td>
<td>Water Heater Controls; Luczak Sales</td>
<td>High Efficiency Water Heaters - When is the Proper Application?</td>
<td>The Parthenon 314 S Halsted Chicago</td>
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<tr>
<td>November 20</td>
<td>Medical Gas Inlets/Outlets; Ohio Medical</td>
<td>Booster Pumps - Variable Speed Drives and their Implications on Booster Pumps; Advanced Mechanical Technologies</td>
<td>Rosewood Restaurant 9421 Higgins Rosemont, IL</td>
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<tr>
<td>December 18</td>
<td>Booster Night; Special Entertainment</td>
<td></td>
<td>LaVilla 3638 N Pulaski Chicago</td>
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<tr>
<td>January 15</td>
<td>Acid Waste and High Purity Piping; Zurn Acid Waste Piping</td>
<td>Alternative Venting Methods; George Swietczak, Village of Villa Park Plumbing Inspector</td>
<td>Rosewood Restaurant 9421 Higgins Rosemont, IL</td>
</tr>
<tr>
<td>February 19</td>
<td>CPVC Sprinkler Piping</td>
<td>Clean Agent Fire Systems and Proper Room Design; Reliable Fire Equipment</td>
<td>The Parthenon 314 S Halsted Chicago</td>
</tr>
<tr>
<td>March 19</td>
<td>Point-of-use Water Heaters; Chronometer &amp; Deery-Pardue</td>
<td>Solar Water Heating; Bornquist</td>
<td>LaVilla 3638 N Pulaski Chicago</td>
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<tr>
<td>April 16</td>
<td>Technical Seminars</td>
<td>38th Annual ASPE Chicago Product Show</td>
<td>White Eagle 6839 Milwaukee Ave Niles</td>
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<tr>
<td>May 21</td>
<td>Elections</td>
<td>Vacuum Plumbing Systems; Deery-Pardue</td>
<td>The Parthenon 314 S Halsted Chicago</td>
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<tr>
<td>June 19</td>
<td>Annual ASPE Chicago Golf Outing</td>
<td></td>
<td>Hilldale Golf Club 1625 Ardwick Drive Hoffman Estates</td>
</tr>
<tr>
<td>July 18</td>
<td>ASPE Ride to the Rock</td>
<td></td>
<td>Chicagoland to Starved Rock</td>
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