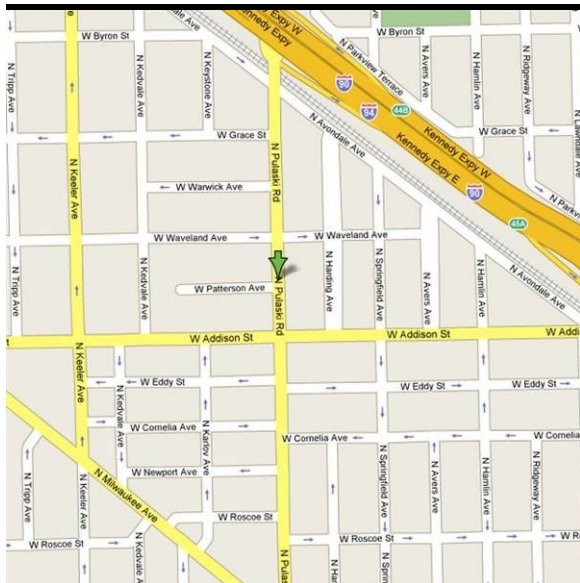


Chicago ASPENNEWS



Chicago Chapter of the American Society of Plumbing Engineers
Vol. 39, No. 7 February, 2008



General Meeting
Thursday February 21, 2008

LaVilla
3638 North Pulaski
Chicago, Illinois
Plenty of Free Parking

Agenda

5:30pm-6:30pm

Cocktail Hour; Beer Laureate Miller Sales (free beer and wine)

6:00pm-6:30pm

Primer - Pipe Insulation; Jim Shannon, K-Flex Isolante; Bob Nolen, IMCOA and Tom Ronan, Added Sales

6:30pm

Dinner - \$25 Members / \$30 Non-Members

Menu

Appetizer

- Thin crust pizza - cheese, sausage, pepperoni

Dinner

- Garden salad
- Fried chicken

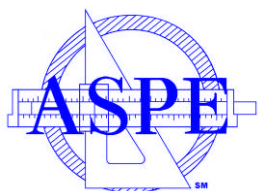
- Polish sausage
- Oven baked potatoes
- Peas and mushrooms

Dessert

- Chocolate cake

7:45pm

Technical Program - PEX Design and Standards; Frank Mazzaresse, Zurn and Harold Miller, Miller Sales



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

- Return the enclosed card for those of you getting this via US Mail
- Call 312.960.8143
- Fax 312.527.8143
- Email bweiss@owpp.com

Local Chapters are not authorized to speak for the Society



PRESIDENT'S MESSAGE

Time for hibernation?!

Ahhhh! The depths of winter. This is when I usually find myself pondering why I live in an area that gets so cold in the winter! Then I remember that it's because Chicago has so much to offer. Our ASPE Chapter is certainly no exception. We are the largest and best, and it's worth a few weeks of frigid suffering! There is no way that you are staying warm at this point, but think warm thoughts! Spring **IS** coming. Really it is. Speaking of nice weather, the 2008 ASPE Convention will be in sunny Long Beach, California! Look for more info within this issue as well as future issues of the ASPE News. And read the whole thing! You're probably spending plenty of time indoors lately, so read the newsletter! You never know what you might be missing.

Stonewood Ale House...hmmm....Guinness! Or maybe you prefer the Schlitz, or Hamms? To each his own, but I love Guinness! Brilliant! (that's an inside joke!) The food was tasty too. The brave souls that trudged into the cold dark night were aptly rewarded. Congratulations for having the fortitude to venture out. **And special thanks to those who RSVP'd and followed through with their commitment! BUT, we had 43 RSVP's and 79 participants! That's great, but brutal. We overflowed out of our room. Please try to RSVP - bweiss@owpp.com.**

The speakers were interesting. I need to further investigate the notion that "interceptors" are different from "separators". Is that always true? Hmmm....

Our joint meeting with Illinois Plumbing Inspectors Association that we planned for January, did not work out for them, so it will be rescheduled for another meeting.

Don't forget that the Product Show is coming soon. If you are an exhibitor, be sure to get your paperwork and checks in ASAP **OR YOU MAY BE A SPECTATOR!** If you are a spectator, not that there is anything **WRONG** with that, mark your calendar and be there for the seminars and the show. There's dinner, too, as you know. Watch for announcements of the Product Show Committee meetings. Frank Sanchez is the Product Show Chairman this year, so contact him if you have any questions or comments. Make sure that you don't miss any upcoming meetings.

2008 ASPE National Convention

ASPE National is in the midst of planning an exciting Convention, which will be held Oct. 25-29, 2008, in Long Beach, CA. Intense educational sessions of the highest caliber and fun special events will be included. The Engineered Plumbing Exposition (EPE – aka product show) promises an array of exhibitors who will showcase the newest products in the industry. Attendees will have numerous opportunities to win prizes with our Expo-opoly game. Visit www.aspe.org for more updates.

Have you ever been to an ASPE Convention? It is a mind-expanding experience for sure. Your Chicago Chapter will need delegates to attend the meetings and to vote on various bylaw amendments, etc. Also, the product show will include lots of door prizes including laptops, vehicles and more. Sure, there is work to be done; but, there will be some fun too, and lots of networking and learning opportunities.

(continued on page 3)

CHAPTER OFFICERS

PRESIDENT

David DeBord, LEED, CPD
Environmental Systems Design
Phone: 312 456.2359
Email: ddebord@esdesign.com

VICE PRESIDENT TECHNICAL

Bruce Weiss, CPD
OWP/P
Phone: 312 960.8143
Email: bweiss@owpp.com

VICE PRESIDENT LEGISLATIVE

Frank Sanchez, CPD
Grumman/Butkus Associates
Phone: 847 328.3555 x251
Email: fxs@grummanbutkus.com

VICE PRESIDENT MEMBERSHIP

Rick Butler
Luczak Sales
Phone: 847 781.5100
Email: rick@luczak.com

TREASURER

Mark Mannarelli
Environmental Systems Design
Phone: 312 456.2354
Email: mmannarelli@esdesign.com

ADMINISTRATIVE SECRETARY

Natalia Dankanich
Grumman/Butkus Associates
Phone: 847 328.3555 x208
Email: nkd@grummanbutkus.com

CORRESPONDING SECRETARY

Jerry Fields
Luczak Sales
Phone: 847 781.5100
Email: jerry@luczak.com

AFFILIATE LIAISON

Dick Simms
Deery-Pardue & Associates
Phone: 630 350.7575
Email: dsimms@deery-pardue.com

EDUCATION CHAIRMAN

Dan Fagan, PE, CPD
OWP/P
Phone: 312 960.8301
Email: dfagan@owpp.com

NEWSLETTER EDITOR

Jason McDonald, CPD
Grumman/Butkus Associates
Phone: 847 328.3555 x204
Email: jsm@grummanbutkus.com

WEBMASTER

Jim Moynihan
Chicago Technical Sales
Phone: 630 889.7121
Email: CTSalesInc@aol.com

GOLF OUTING CHAIRMAN

Steve Triphahn
W-T Engineering, Inc.
Phone: 847 895.3640
Email: sttriphahn@wtengineering.com

HISTORIAN

Donald Johnson

WEBSITE

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

PRESIDENT'S MESSAGE (continued)

If you would like to be considered as part of the entourage, please send us a note as to why you would like to be considered a candidate for a delegate position. Send that to our Administrative Secretary, Natalia Dankanich - nkd@grummanbutkus.com. We will vote on the candidates at our May ASPE meeting. Delegates will attend the Convention for free. Stay tuned for more details.

Special Offer for New Members

If you sign up to be an ASPE Member in the next few weeks, you will be eligible to receive the brand-new *Plumbing Engineering Design Handbook, Volume 3: Special Plumbing Systems*. As an added bonus, you also will receive *PEDH Volume 2* (2005 edition). Reference promo code **08PEDH** on your [new member application](#) to receive this special offer. (**Offer is good while supplies last.**)

Next CPD Exam Will Be Held in April

The Certified in Plumbing Design examination will be administered on Friday or Saturday, April 18 or 19, 2008, depending on available sites. The exam is an online proctored exam with approximately 200 possible testing sites throughout the U.S. and Canada. The testing fee for the examination is \$375 for ASPE members, \$300 for ASPE members with a PE, and \$625 for nonmembers or \$550 for nonmembers with a PE. Download the [CPD Bulletin](#) for more information.

CONGRATULATIONS TO OUR NEWEST CPD!

Ben Rubach of Primera attended the famous Joe Ficek CPD Review Class at the Technical Symposium. He then took the CPD examination in November and he passed! Good job Ben! Ben agrees that the review class is essential!

FREE (for ASPE Members) CPD REVIEW CLASS

Joe Ficek, of Grumman/Butkus Associates, and also a Past ASPE President, will teach his *famous* CPD Review Class - Saturday April 5 at Grumman/Butkus Associates in Evanston. If you are planning to take the exam, **YOU DON'T WANT TO DO IT WITHOUT THIS CLASS!** If you want to take this review class, please contact Jason McDonald – jsm@grummanbutkus.com. Watch for more details soon!

Thanks for your support! See you February 21 at the *LaVilla* in Chicago!

David DeBord, President



MEMBERSHIP NEWS

It's here!!!

The updated Chicago ASPE Member Directory is complete. You may have received your copy via email already; if not, it will be coming your way soon.

Additionally, the Product, Manufacturer, and Representative directories are all available online at our website: www.aspe.org/Chicago. Please note that you or someone in your company has to be a MEMBER to be listed in these directories. So, if you know someone who should be listed have them become a member - http://www.aspe.org/new/About_ASPE/aspe-membership.php.

Congrats!!!

I would also like to congratulate the new members who took advantage of our Booster Night sign up:

Mike Belczak – Primera Engineers
Dan Patt – KJWW Engineers
Ed Lichner – Luczak Sales

Membership Ideas???

The Board is soliciting any ideas or comments you may have on increasing membership/fund raising. Be creative - maybe a run/walk event, picnic, dunk tank for Board members..... Contact anyone on the Board with your ideas.

Rick Butler, Vice President Membership



TECHNICAL REPORT

Lost and Found - A scarf was left on a chair at the January meeting. If it is yours and you want it back, please contact me – bweiss@owpp.com.

Our January Meeting

A good problem to have:

After a brief sabbatical we returned to the suburbs and what a return it turned out to be. We had eighty people - not bad for a January meeting. Our meeting room at the Stonewood Ale House in Schaumburg turned out to be cozy, in fact a little too cozy. We had people sitting all over the restaurant and normally I would worry about everyone not fitting in the room, but the meeting place was so nice that I don't think anyone minded. So I will continue to try to find a place to fit everyone. But I promise we will have meetings held in the suburbs because I got the message that a good number of our members want it.

Technically speaking we had two very good presentations. The primer presented by Luczak Sales and Beth Willis, Senior Sales Engineer at Jay R Smith Mfg. was an excellent overview of the neglected interceptors. The feature topic was presented by Deery Pardue and Associates and Rockford Separators, Bryce Russell was very good in explaining the key difference between a grease interceptor and a grease separator. Bryce had a lot of passion for his products, and did at times even get carried away on the subject.

Deery-Pardue & Associates and Rockford Separators were our Beer Laureates for this meeting. And rather than our typical pitchers on the table, everyone got to decide for themselves what they wanted - and at a place with an excellent beer selection! If someone wanted Spaten or Stella, they got it! And if someone else wanted Pabst or Old Swill, they were taken care of, too!

What's coming up for the next meeting?

How's this for a primer?

Piping Insulation - Jim Shannon of K-Flex Isolante (Insultube), Bob Nolen of IMCOA and Tom Ronan of Added Sales will be there to discuss engineered elastomeric insulation.

Miller Sales and Frank Mazzaresse of Zurn will be doing a presentation on PEX and plumbing. Frank will discuss the material, connections and other products associated with this type of piping system. He will also discuss some of the design basics and does and don'ts of installation. PEX is starting to be installed on projects in our area (not Chicago) and it is in the Illinois State Plumbing code as an approved material.

Bruce Weiss, Vice President Technical

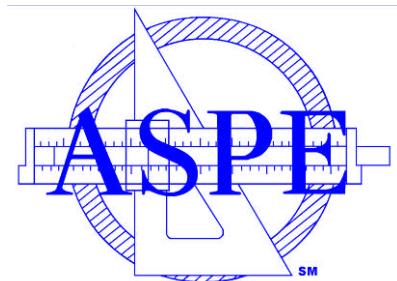
ANNIVERSARY

In going through some old notes, I see that 40 years ago, through the efforts of late President William Johncox and now Reverend Albert Tremard, we were gathering members and signatures for our petition for charter as a Chapter in the American Society of Plumbing Engineers.

Subsequently, our charter as Chicago Regional Chapter was granted in 1969. Yours truly was Administrative/ Corresponding Secretary. You can read about our Chapter history on the Chicago Chapter website - <http://www.aspe.org/Chicago/ASPEChapterHistory-Chicago-website.pdf>.

Happy four decades Chicago!

Don Johnson, Chapter Historian



JANUARY 2008 MEETING ATTENDANCE

The following list of individuals attended the January 2008 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.

Sean Allard	Matt Keller	Mark Petrosius
Bill Bauer	Steve Krock	Pat Quinn
Brian Berg	Phill Kroll	Dennis Richards
William Bowman	Tom Lang	Bryce Russel
Mick Bradford	Terry LeBeau	Tim Sack
Tom Brown	Lindsey Lehman	Frank Sanchez
Rick Butler	David Lehman	Keith Schreiner
Dan Courtney	Jason Lindsey	Keith Seier
Mike Cusack	Steve Lipsey	Craig Shannon
Ken Cutler	Mark Loth	George Sobyra
Mike Cwanek	Brenden Loughrey	Chris Sopiartz
Natalia Dankanich	Omi Mailane	Jeff St. Onge
Ralph Dantino	Mark Mannarelli	Jeff Steck
Dave DeBord	Nevo Martelli	Jim Stockstill
Dennis DeMars	Brian Mazzocchi	George Swietczak
Jamie Diamond	Shawn McAuliffe	Sara Theodore
Tony DiVito	Jason McDonald	John Triphahn
Ed Dwight	Paul McLafferty	Nick Turney
Jerry Fields	Harold Miller	Bob Weaver
Tom Gach	Scott Milne	Bruce Weiss
Paul Gangloff	Tony Navarro	Dave Wick
Tony Garcia Jr.	John Nieman	Mel Withrow
Todd Gray	Ryan Obenauf	Min-Hwan Yang
Bob Hauser	Peter Ott	Kevin Zaleski
Mike Imaoka	Michael Owen	
Rafal Janik	George Pagach	
Don Johnson	Dan Patt	
E.J. Kedzie	Val Peterson	

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!

CPD REVIEW CLASS

Saturday April 5, 2008

9am-4pm

Grumman/Butkus Associates
820 Davis Street, Suite 300
Evanston, IL 60201

Instructed by: *Joe Ficek, G/BA & ASPE Chicago Past President*
Cost: **FREE!!**

If interested, contact Jason McDonald, jsm@grummanbutkus.com or
847/328.3555 x204



CORRESPONDING STUFF

ASHRAE, www.illinoisashrae.org

Abbott Lab Steam Plant Tour

February 19, 2–4:30pm

Steam distribution system design will be discussed, and operational strategies and maintenance issues will be reviewed.

Tour group is limited to 30 people.

Reservations: 708-636-3604 or dkdoherty@sbcglobal.net

ASHRAE to Host Satellite Broadcast on Integrated Building Design

A free satellite broadcast and Web-cast, *Integrated Building Design: Bringing the Pieces Together to Unleash the Power of Teamwork*, will be held from 1-4pm EDT on April 16. The ASHRAE program focuses on whole-building integrated design. Online registration opens March 1 for satellite broadcast site coordinators and Web-cast participants. Registration for satellite downlink viewers opens March 15. For more information, visit www.ashrae.org/IBDbroadcast. Registration is free.

Seminar: HVAC Design for Health Care

March 11, 2008, 2-5:30pm

Dinner Meeting: Technical Topic to be determined, "Student/Scholarship Night," 5:30-8pm

Holiday Inn Apparel Mart, Chicago, Ill.

SFPE, www.chicagosfpe.org

Residential Fire Sprinkler Summit (An Expansion of the NFPA 13D Summit Meeting)

February 20, 2008

Will be provided to each Municipality/District. A joint Illinois Fire Inspectors Association (IFIA), Illinois Fire Chiefs Association (IFCA) and the Northern Illinois Fire Sprinkler Advisory Board (NIFSAB) Seminar on residential fire sprinkler systems codes and ordinances.

Where: Medinah Banquets, 550 Shriners Drive, Addison, IL

Registration: 8:00-8:45am. Exhibits on latest systems & technology

Fee: \$15

6th Annual IFPA-SFPE Combined Fire Prevention Product Show

Tuesday, March 18, 2008, 4-8pm

The White Eagle Banquets and Restaurant

6839 North Milwaukee Ave.; Niles, IL 60714; (847) 647-0660

ILPHCC, www.ilphcc.com

Monthly Meeting

Tuesday, February 12, 2008, 8:00-10:00am

Clubhouse/Oak Brook

298 Oakbrook Center; Oak Brook IL 60523; (630) 472-0600

CSI, www.csichicago.com

CSI "Wine Down" and Membership Celebration (*Wines around the World*)

BIN 36 at Marina City; 339 N. Dearborn, Chicago, IL 60610

February 7, 2008, 5:30–7:30pm

\$40 to non-members

Go to website for registration instructions

As always, let me know if there are any other organizations you would like to hear from.

Jerry Fields, Corresponding Secretary



PRODUCT SHOW UPDATE !

We had our second Product Show meeting at La Villa on January 24. We are finalizing seminars and came up with some interesting ideas for this show. We will continue having the **ASPE Command Center** at the center of the show. Here we will display raffle prizes and the NEW seminar attendee prizes. So, make sure you come to booth selection night in April (location and time TBD) because the real estate near the ASPE Command Center will go fast.



PRIZES!

Product Show Attendance Raffle Ticket - As usual, we have great prizes and giveaways. They are free and you can fill out **ONE (and ONLY ONE)** Product Show Raffle Ticket and drop it off at the main entrance. Winners **MUST** be present to claim their prizes.



Last year we had excellent prizes including:

- Two 15" Laptops
- Digital Camera
- iPods
- Five \$100 envelopes, and we are talking **CASH!!**

50/50 Raffle

Speaking of CASH, we will once again have a 50/50 raffle. Last year, one lucky winner walked away with a nice amount of sweet cash!

NEW!! NEW!! - Seminar Attendees Raffle, a \$300 value!

At our last Committee meeting, we discussed and approved a separate raffle to give away one **amazing prize** to a **seminar attendee**. This raffle is completely separate from the usual door prize drawings at the Product Show. It is for **seminar attendees ONLY!** The prize will be of a value of around \$300 - most likely a GPS device or a digital camera.

Seminars (11:30am - 4:30pm)

We will have three rooms, each one offering 4 seminars. For each seminar you attend, you will receive a raffle ticket. That means that you get up to 4 chances to win! The prize drawing will be at **5:45pm**, just before the optional dinner (\$25), and you **MUST** be present to win. Take advantage of this opportunity - the more seminars you attend the more chances you have to win!

Product Show Registration

To our Exhibitors, keep your eyes open for the first mailing envelope; I will follow up with a few emails later. Remember that the booths are given on a **first come first served basis**.

I would like to thank the people, who participated in our second meeting,

- Jamie Diamond & Peter Wu from Lehman Design
- Harold Miller, Miller Sales
- Bruce Weiss, OWP/P
- David DeBord & Mark Mannarelli from ESD
- Jason McDonald & Frank Sanchez from Grumman/Butkus

Please note these meetings are open to all that are interested. Food and beverages will be provided by the Chapter.

Frank Sanchez, Product Show Chairman

Mark your calendars for

THE 37th ANNUAL ASPE PRODUCT SHOW

Thursday, April 17, 2007
WHITE EAGLE RESTAURANT
6839 Milwaukee Avenue, Niles, IL

TENTATIVE SEMINARS

ROOM 1 - Will offer Green Seminars, LEED related topics.

ROOM 2 - State of Illinois Approved CEUs, seminars based on the IL Plumbing Code

ROOM 3 - Special Systems, Medical Gas and Fire Protection

3rd PRODUCT SHOW COMMITTEE MEETING

February 28, 2007; Time: 5.30pm
Pete Miller's; 1557 Sherman Ave
Evanston, IL 60201; (847) 328-0399

DIRECTIONS: <http://tinyurl.com/yftfyw>

RSVP to: fxs@grummanbutkus.com or
847 328.3555 x251

HOW ABOUT A LITTLE WATER CLOSET HISTORY?

Has anyone ever seen one of these?



I was at the City Museum in St. Louis and came across this gem of early technology and wondered if anyone has any background data on it? The words "golden Gate" appear in the cast iron base pipe.

History of the Flush Toilet Flushing out the Truth

There is disagreement over who was the inventor of the modern flush toilet, and flushing out the truth is not easy. Many give credit to Thomas Crapper (1837-1910), an English sanitary engineer, for inventing the valve-and-siphon arrangement that made our modern toilet possible. Then there are others who maintain that our hero was

a nameless Minoan (a native of ancient Crete) who lived some 4,000 years ago. And then there are those who give the credit to Alexander Cumming who patented a flushing device in 1775.

But we also have Sir John Harrington who published a pamphlet in the 16th Century called the "Metamorphosis of Ajax" (The title is a pun..."jakes" was a common term for privy) with the full instructions for the construction of a valve closet. Still later George Jennings in the 18th Century made contributions that were considered the ultimate in plumbing mechanisms

* This item reprinted from <http://www.toiletology.com>

For the toilet curious check out:
www.toiletology.com.



Bruce Weiss, Vice President Technical



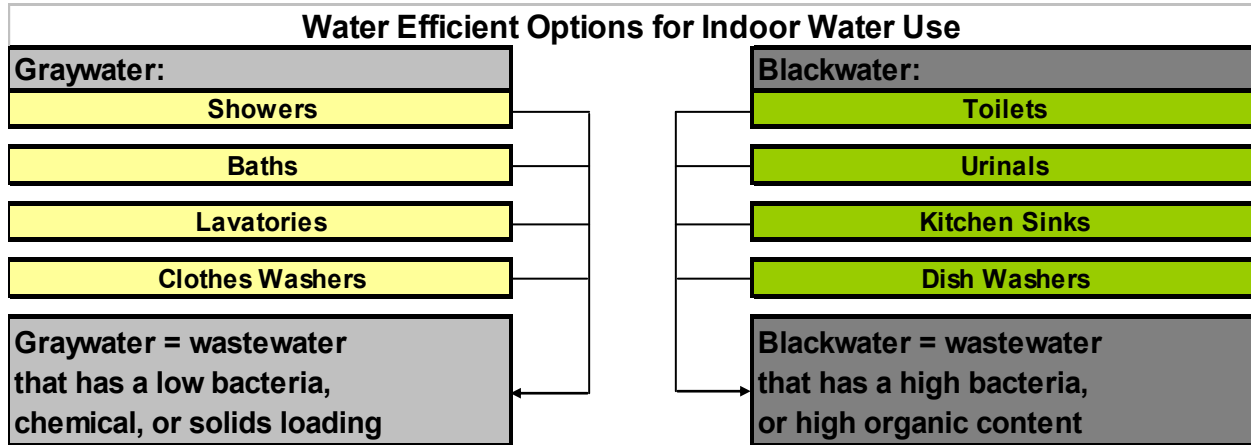
"I should've been a plumber."
- Albert Einstein

AS I KNOW IT - GRAYWATER AND BLACKWATER

We are facing new challenges in this millennium. One of these challenges is that we are called upon to design systems of which we may have little or no experience. Wastewater Re-Use is one of these domains that have come into our arena.

Is it "graywater" or "greywater"? Either one is acceptable. One is spelled graywater and the other is greywater. That's it. It depends on where you come from and how you like to spell it. "Blackwater" is an entirely different matter. About 68% of household wastewater is graywater. The other approximately 32% is blackwater.

What is the difference between "graywater" and "blackwater"? What fixtures go to which systems? The information below may help you to answer these questions.



Wastes from dishwashers and kitchen sinks can be piped to automatic grease separators. These separators will automatically siphon off the fats, oils and greases. These FOGS can be used for biodiesel fuel. Wastewater will then be processed as blackwater. It's a good idea to locate these facilities on the truck dock or another location that provides plenty of external venting to reduce odors indoors.

COMPARISON OF GRAYWATER AND BLACKWATER			
Parameter	Graywater	Blackwater	Gray+black
BOD5 (g/p/d & mg/l)	25 & 150-300	20 & 2000-3000	71
BOD5 (% of UOD)	90	40	-
COD (g/p/d & mg/l)	48 & 300	72 & 2000-6000	-
Total P (g/p/d & mg/l)	2 & 4-35	1.6 -	4.6
Total N (g/p/d)	1 (0.6-5 mg/l)	11 (main source urine)	13.2
TSS (g/p/d)	18	>50	70
Pathogens	Low	Very high	Very high
Main characteristic	Inorganic chemicals	Organics, pathogens	Inorganics, organics, and pathogens.

Note: g/p/d: gram/person/day.

Sources: [Haug 1993; Droste 1997; Dixon et al. 1999b; Hammes et al. 2000; Lindstorm 2000a, 2000b].

1 BOD5 = oxygen required for the decomposition of the organic content in graywater during the first 5 days, determined as BOD after a 5 day period of incubation under standard conditions.



2 UOD = Ultimate (Total) Oxygen demand in a sample taken.

3 COD = Oxygen demand for all chemical (organic and inorganic) activities, a measure of organics.

Refer to ASPE Data Books and the new PEDH Series, for additional information. Several chapters relate to this subject. Remember that your project may vary and needs to be engineered relative to it's unique requirements. This is just one example and may not be the correct application for your project.

David DeBord, President

2007-2008 ASPE Chicago Chapter Meeting Schedule

DATE	PRIMER	TECHNICAL	LOCATION
September 20	Plumbing Pump Controllers; <i>Mike Vandenbergh, Daugherty Sales</i>	Fire Pump Controllers; <i>Jim Moynihan, Chicago Technical Sales/ Firetrol</i>	<i>LaVilla 3638 N. Pulaski Chicago</i>
October 18	Secondary Supports; <i>Deery- Pardue & Associates</i>	Chicago Plumbing Code; <i>Frank Bathauer, Chicago Chief Plumbing Inspector</i>	<i>The Parthenon 314 S Halsted Chicago</i>
November 15	Pipe Joining Methods for Mechanical Piping; <i>Jim Ness and Company</i>	Plumbing Design for Labs; <i>Mike Straughn, WaterSaver Faucet Co. and Mick Bradford, Russo Sales</i>	<i>LaVilla 3638 N. Pulaski Chicago</i>
December 13		Booster Night; <i>Special Entertainment</i>	<i>The Parthenon 314 S Halsted Chicago</i>
January 17	General Interceptors; <i>Luczak Sales</i>	Grease Separators; <i>Bryce Russell, Rockford Separators/ Deery- Pardue</i>	<i>Stonewood Ale House 601 Mall Drive Schaumburg</i>
February 21	Pipe Insulation; <i>Jim Shannon, K-Flex Isolante; Bob Nolen, IMCOA and Tom Ronan, Added Sales</i>	PEX Design and Standards; <i>Frank Mazzaresse, Zurn and Harold Miller, Miller Sales</i>	<i>LaVilla 3638 N Pulaski Chicago</i>
March 20	LEED Calculations; <i>Sloan Valve</i>	Grey Water and Water Recycling; <i>Metropolitan Industries</i>	<i>LaVilla 3638 N Pulaski Chicago</i>
April 17	Technical Seminars	37th Annual ASPE Chicago Product Show	<i>White Eagle 6839 Milwaukee Ave Niles</i>
May 15	Elections	Cast Iron Pipe and Standards; <i>Alan Thomas, CISPI</i>	<i>The Parthenon 314 S Halsted Chicago</i>
June 20	Annual ASPE Chicago Golf Outing		<i>Hilldale Golf Club 1625 Ardwick Drive Hoffman Estates</i>
July 12		ASPE Ride to the Rock	 <i>Chicagoland to Starved Rock</i>