



ASPE NEWS

American Society of Plumbing Engineers

Eastern Michigan Chapter

http://aspe.org/Eastern_Michigan

Serving our membership since 1975

Vol. 14, Issue 5

Plumbing Design Classes

Date: Tuesday, January 18, 2011
Where: Plumbing Industry Training Center
SEE map on back page

ASPE HANDBOOK & VENDOR CLASSES
3:45 - 5:30 PM

Basic: Medical Vacuum Systems Engineering & Design
Vendor: Highland Tank
Speaker: TBA
See page 3 for speaker bio

DINNER
5:30 - 6:00 PM

Cost: ASPE, ASSE, MBPA Mbrs: NC
 Non-members: \$15.00 FOR DINNER

DESIGN CLASS
6:00 - 8:00 PM

Topic: Fuel Oil & Gasoline Systems Designs - Codes, UST & AST Rules
Panel: Casey J. Smith, President Phoenix Environmental
See page 3 for program & bio

See the full event schedule on our web site.

REGISTRATION REQUIRED
 RSVP by the **Friday** prior to day of class to:

Edwin Hawley, VP Tech:
edwinhawley@att.net
 (248) 656-8253

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PRESIDENT'S REPORT

John R. Nussbaum, IPP, FASSE



Master Plumber Honored by Governor

MCA Detroit's plumbing and mechanical contractors and guests closed out 2010 at the Plumbing Industry Training Center with their annual Holiday Open House. One of the highlights of the evening was a proclamation from State of Michigan's Governor Granholm presented to Master Plumber Adrienne Bennett by Barbara Jean Johnson, Director of Community Affairs for the State of Michigan, in recognition of Adrienne's

achievements in her chosen career in the plumbing field. Adrienne was acknowledged for being the *first female licensed master plumber in the country*.

Adrienne has also been recognized as a full member of ASPE (American Society of Plumbing Engineers). Music for listening and dancing was provided by Larry D'Ascenzo and the Sunset Boulevard Band. Invited guests were given a guided tour of the state-of-the-art training facility.



Adrienne Bennett



Above: John Nussbaum, Barbara Jean Johnson, Adrienne Bennett

ASSE Michigan Chapter – Annual Awards Banquet

January is the time the Michigan Chapter of the American Society of Sanitary Engineering (ASSE) recognizes the outstanding members from each of the plumbing and mechanical industry's professional organizations

continued on page 4

ARE YOU SAYING THAT THE SPEAKMAN T/P VALVE PROTECTS FROM BOTH SCALDING & THERMAL SHOCK?

AND IT'S CERTIFIED TO MEET ASSE 1016 AT 1.5 GPM!



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**February 26 or March 5, 2011
Plumbing Industry Training Center
1911 Ring Drive, Troy, MI 48083**

▶ **What do the Beach Boys, Mickey Mouse, and T&S low-lead faucets have in common?**



▶ They all got their start in California, and they all swept the nation. Although California led the way with the AB1953 legislation mandating low-lead faucets, it's only a matter of time until they are required in all states. And T&S is ready — all of our faucets are low-lead compliant and are available across the country. And, as always, T&S faucets are as rugged and reliable as they come, and meet the requirements of the Buy America Act. Contact your sales rep for more information.

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January Tech Program

Fuel Oil & Gasoline Systems Designs - Codes, UST & AST Rules



Casey J. Smith

Casey J. Smith is President and founder of Phoenix Environmental, Inc. of Whitmore Lake, Michigan. Phoenix was founded in early 1998 and provides contracting services to supply and install fuel systems for commercial, industrial and institutional customers. Phoenix provides union specialty mechanical services as well as being a union licensed electrical contractor, and has had the responsibility of installing fuel systems for

major automotive testing facilities numerous hospitals, insurance data centers, large municipalities and utility companies. Mr. Smith is a 1988 graduate of the South Dakota School of Mines and Technology with a B.S in Geological Engineering. He holds several OSHA certifications as well as numerous equipment installation and repair certifications. Mr. Smith is a Registered Professional Geologist in the State of Tennessee. Prior to starting Phoenix Environmental, Mr. Smith held the positions as; a Geophysicist in West Africa, a Hydrogeologist across much of the United States and most notably as the Great Lakes District Manager for Professional Service Industries (PSI). His duties with PSI included Environmental P & L responsibility and Technical oversight for numerous offices in MI, OH, PA, WV, IN, WI and KY.

Program: This program will familiarize professionals with regulatory framework for the storage and dispensing of combustible and flammable liquids. Mr. Smith will begin with an overview of the history and reasons for regulation, regulations, uses, installations and removals. Removal of existing UST's and AST's includes rules and notices, professional licenses/certifications, minimum qualifications/ training for workers, regulatory oversight, and reporting requirements. Installation planning covers: Determination of use, regulatory jurisdiction, permits, site considerations, equipment specifications, excavation, backfill, piping, inspections, startup and monitoring. Operation will cover insurance, monitoring, maintenance, record keeping and reporting.

CPD Exam Registration Opens January 4

With the Certified in Plumbing Design (CPD) designation after your name, you instantly will be recognized as an expert in the plumbing engineering field. **The 2011 CPD Exam will be offered in electronic format on April 15 or April 16** at 200 testing facilities across the country. Full ASPE members are automatically approved to sit for the exam. Click here for more information or contact:

skidd@aspe.org with questions.
Registration opens tomorrow.

VP Technical Report

Edwin L. Hawley, CPD



The ASPE Design Class on December 14th, 2010 was LEED 3.0 for Existing Buildings. The program presenter was Mr. Allen Deal, PE, president of Performance Engineering Group, Inc. PEG, Inc. has been actively involved in designing and marketing commercial and domestic hot water systems, including hydronic radiant heating, since 1996. The company specializes in complete engineered packages to the installation contractor.

Allen Deal is very active in the professional associations: ASPE, Eastern MI Chapter, ASHRAE, Detroit Chapter, (past President), Eastern MI Chapter, Radiant Panel Association, (past president).

In the fall of 2009, the U.S. Green Building Council launched LEED version 3 or LEED v3.0 for Green Buildings Operation and Maintenance, An Overview for the Plumbing and Mechanical Contractors. The following is what has changed from LEED version 2.2 to 3.0:

- LEED Green Associate
- LEED AP with specific discipline
- Continuous Education component
- Number of points available
- Focus on Building Energy Performance

LEED Existing Building - Operations & Maintenance Points
Prerequisites and Credits
LEED Levels:

- Certified 40 to 49 points
- Silver 50 to 59 points
- Gold 60 to 79 points
- Platinum 80 + points

LEED 3.0 for Existing Buildings encourages owners to:

- Implement sustainable practices
- Reduce environmental impact
- Maintain and measure performance

LEED rating system addresses:

- Exterior building site maintenance
- Water use
- Energy use
- Environmentally preferred products/practices
- Sustainable Purchasing and Waste Stream Mgmt
- Indoor Environmental quality for ongoing operations
- Regional weighting of issues
- Innovation in Operations

LEED Green Buildings O&M Certification

- Building operation/system upgrades
- Buildings new to LEED certifications and previously certified buildings under the following:
 - LEED New Construction
 - LEED for Schools
 - LEED for Core and Shell

continued on page 5

PRESIDENT'S Report

continued from page 1

as submitted by their organization. These are people that throughout the year have given of their time and talent beyond their daily activities to support the betterment of the plumbing and mechanical industry. This year is no exception those who were selected are some of the hardest working and dedicated people to come along and belong to more than one organization. One of those individuals selected is Mary Jo Chapman to receive the Chapter's highest award the L. Glen Shields Award. I mention this because Mary Jo has announced her soon-to-be retirement. Many of you know the dedication and talent she has provided to the plumbing and mechanical industry over the last 15 plus years, six of which have been as the publisher of the Eastern Michigan Chapter ASPE Newsletter and web site. This is over and above her job as manager of publications and communications for MCA Detroit. Please join with the Engineers, Contractors, Inspectors, Labor and Manufacturers Representatives to congratulate Mary Jo and the other award winners January 29th 2011 at the ASSE / ASPE Awards Banquet. Music by Mark will provide the music for your enjoyment and pleasure. Stacey Wesselink with Liqui Tech Environmental will give the Keynote address and ASSE International President James Bickford will install the officers and directors.

ATTENTION Contractors, Engineers, Plumbers, Inspectors and those of you who will be answering the needed call to work in health care facilities in 2011. You will not want to miss the six specialty credit-hours seminar titled "Working in Today's Healthcare Settings How to Protect Yourself and Patients". With the expansion and updating of the Detroit Medical Center and work to begin this spring, you will want to be prepared to answer the call. Please read the enclosed flyer and registration material and sign up early to insure a seat for one of the two dates being offered. This is an ASPE Michigan Chapter Educational offering.

In closing, may 2011 be a healthy prosperous year for all members working for a safer healthier Plumbing and Mechanical Industry.

*Your president,
John Nussbaum*



December 21, 2010 marked the the winter solstice, the shortest day of the year. Our days are getting longer again and letting us enjoy a little more daylight while we drive home from work. Enjoy the beauty of winter and stay safe out there. The spring equinox is only 10 weeks away!

Need Code Books?

Code books may be ordered with pre-payment at the prices indicated below for ASPE EMC, ASSE Michigan Chapter and MBPA members:

ICC 2009 Plumbing Commentary	\$ 68
ICC 2009 Mechanical Commentary	\$ 68
ICC 2009 Fuel Gas Code	\$ 52
ICC 2009 Fuel Gas Commentary	\$ 62
2005 NFPA 99C	\$ 42.50
Michigan 2009 Plumbing	\$ 60
Michigan 2009 Mechanical	\$ 60
Michigan 2009 Building	\$ 99
Michigan 2009 Residential	\$ 81
Michigan 2009 Barrier Free Manual	\$ TBA

Contact Cassie at
(313) 341-7661 ext. 205 or
cmudloff@mcadetroit.org
to get an order form.

Books may be picked up
at MCA Detroit.
Shipping is extra.

Only cash or company check
accepted. *No credit cards.*

Checks should be made payable
to:

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Group of SE Michigan



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VP Technical Report

continued from page 3

LEED for Existing Buildings:

- Initial Certification vs. Recertification
- Any first time application for LEED BO&M
- Includes buildings never certified under LEED and Buildings not certified under LEED EBOM

Re-certification:

- Any LEED EBOM previously certified building
- Can happen as often as every year but at least once every 5 years.

The performance period of LEED for Existing Buildings:

- Initial Certification Performance Periods
 - Performance Period
 - 3 Months minimum, 24 months maximum
 - ◆ Some Pre-reqs/credits have one (1) year minimum duration
 - Performance periods must be continuous without gaps
 - All performance periods must **overlap and terminate** within one week of each other
 - Certification applications must be made within 60 days of end of the performance periods
- LEED EBOM
 - Measure
 - Meter
 - Repair/Adjust/Replace
 - Repeat

LEED EBOM Categories and Points

O+M Point Distribution	Symbol	Total Pts	Items
Sustainable Sites	SS	1 to 26	9
Water Efficiency	WE	1 to 14	5
Energy & Atmosphere	EA	1 to 35	12
Materials & Resources	MR	1 to 10	12
Indoor Environmental Quality	IEQ	1 to 15	18
Innovation in Design	ID	1 to 6	3
Regional Priorities	RP	1 to 4	1

(See graphic Chart B at the top of page 6)

Mandatory Minimums

- Water Efficiency
 - WEp1-Minimum Indoor fixtures and fitting Efficiency, Water Performance Measurement.
- Energy & Atmosphere
 - EAp1-Energy Efficiency Best Management Practices
 - EAp2-Minimum Energy Efficiency Performance
 - EAp3-Fundamental Refrigerant Management
- Material & Resources
 - MRp1-Sustainable Purchasing Policy
 - MRp2-Solid Waste Management Policy
- Indoor Environmental Quality
 - EQp1-Minimum IAQ Performance
 - EQp2-Environmental Tobacco Smoke Control
 - EQp3-Green Cleaning Policy

There are many plumbing and mechanical items that can gain LEED EBOM credits.

A complete list is available to Members of the USGBC LEED, after qualifications are met.

Synergies-LEED and Radiant Heat: With 7 points areas adding up credits

There are economic incentives to take advantage of like:

- Grants
- Utility rebates
- Tax incentives
 - Federal section 179 credit up to \$1.80 per sq.ft.
 - 30% on some renewable systems

McKinsey Report; Energy Efficiency Advantages; Starting with -Low cost energy resources:

- Potential consumption reducing 25-50% is available now.
- Potential savings by 2020
- \$1.2 Trillion for a \$52 Billion investment (estimated) could have savings up to 9.1 quadrillion BTU's.

LEED EBOM POINTS

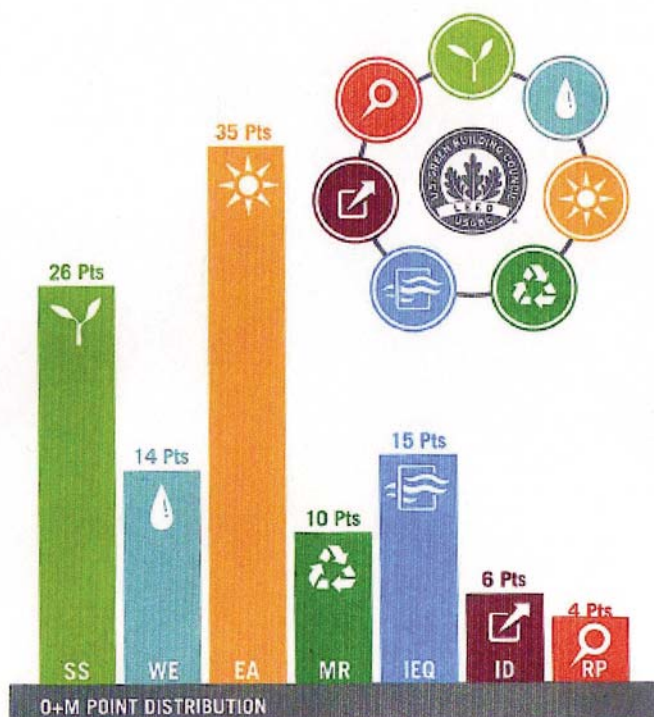


Chart A

continued on page 6

O+M	SS	WE	EA	MR	IEQ	IO	RP	Total
Prerequisites	-	1	3	2	3	-	-	9
Credits	9	4	9	9	15	3	1	50
Possible Points	26	14	35	10	15	6	4	110

Chart B

It was a pleasure, enjoyable and most of all EDUCATIONAL program. Mr. Deal did an excellence job, meeting all important criterias, delivered with enthusiasm, full of up-to-date information and a well designed PowerPoint presentation printed hand-outs.

I would like to acknowledge the hard work done by the Eastern Michigan ASPE Chapter for delivering, as promised, the greatest and best of educational programming for the membership. We will continue to do our job. Period. That leaves it finally up to the membership to be in attendance to gain and store all the educational material given to each of member every meeting night. I hope to see a large increase in the attendance in this New Year for our next meeting, January 18th, 2011 with guest speaker Mr. Casey Smith with Fuel Oil & Gasoline System Designs - Codes, UST & AST Rules.

Special thanks go to our Manufacturers Representatives:

1. Alan Deal/ Performance Engineering Group
2. Jim Eardley/ Caleffi

What you have seen in this report is only a small portion of what information is available. Go directly to the web site, www.usgbc.gov, for further information.

REMEMBER - Please call 248-656-8253 to make your reservations or you can e-mail me at edwinhawley@att.net by Friday, January 14 and before 5:00 pm. Thank you! See you there.

*Ed Hawley, CPD
VP Tech*

CONSIDER VOLUNTEERING

The Board's primary responsibility is to provide leadership in developing and executing stimulating programs and activities that will aid the membership in the performance of their jobs and advance their technical skills and careers.

Giving of your time and talents as a volunteer or a board member can have a direct and personal impact on causes you care about as well gaining leadership and event planning experience.

It is extremely important in any organization to bring new people on board to be mentored into positions, who will also bring fresh viewpoints and new ideas to the table.

You will have support. We also want to prevent the loss of organizational memory and to tap an abundance of experience and expertise by keeping past board members active.

Volunteering offers a chance for personal growth, to have fun, to share a skill, to have an impact, to be a part of a team and to get to know the people in your field of expertise. Consider volunteering!

RAFFLE TICKETS

for the

John E. Matthews Scholarship Fund

are available by contacting any of the following ASSE Board Members:

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Cindy Zatto cindy@vesalesinc.com



American Society of Sanitary Engineering Michigan Chapter

You are cordially invited to the

ASSE Michigan Chapter

Annual Meeting & Awards Banquet

Saturday, January 29, 2011 - 6:00 PM

Shriners Conference Center

24350 Southfield Road - Southfield, MI 48075

**Open Bar
Dinner
Entertainment**

Questions?
Call Indy Cabello
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(313) 565-5580
or fax 565-9818

The dinner order form
will be available on
the ASSE Chapter web
site and the ASPE
Eastern Michigan
Chapter web site.



Stacey Wesselink - Keynote Speaker

Topic: Water Safety = Life Safety

Stacey Wesselink is the national director for the Pathogen Division of LiquiTech Environmental Solutions

This presentation offers an in-depth examination of the undeniable impact that the domestic water system has on safety, clinical outcomes and economics. We will explore the climate of regulatory and health care reimbursement pressures that are shaping new "best practices" for Mechanical Engineers to minimize risk related to domestic water system contamination.

John E. Matthews Scholarship Raffle

Grand Prize: 40" Toshiba LCD TV

Prizes: Apple iPod Touch 8GB & Apple iPod Nano 8GB

Only 500 Raffle Tickets Printed

Tickets are on sale now and will be sold at the Banquet.

Need not be present to win!

Drawing on Saturday, January 29, 2011

\$10 per ticket / 3 tickets for \$25 / 7 tickets for \$50

Great odds to win!

A worthy cause for our industry!



John E. Matthews, PE
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Tickets and forms designed and printed courtesy of the Mechanical Contractors Association of Detroit.



ASSE Michigan Chapter

Annual Meeting & Awards Banquet

Saturday, January 29, 2011 - 6:00 PM

Shriners Conference Center

24350 Southfield Road - Southfield, MI 48075

Open Bar & Entertainment

REGISTRATION

Name _____
 Company _____
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 City _____ State _____ Zip _____
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TICKET ORDER FORM

Single Admission Ticket: \$ 60 x _____ = \$ _____
 Couples Admission Tickets: \$ 100 x _____ = \$ _____
 Tables (8 seats per table): \$ 350 x _____ = \$ _____
 TOTAL ENCLOSED \$ _____

MEAL SELECTION

Please PRINT names of attendees and circle their entree choice.

1. _____	Beef	Chicken	Fish	Veg
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Duplicate this form if you are ordering for more than one table.

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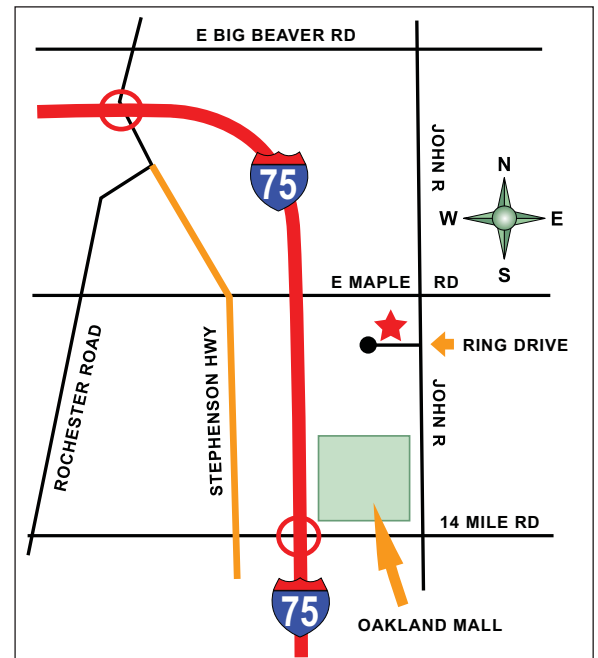
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Map to the Plumbing Industry Training Center 1911 Ring Drive - Troy, MI West of and off John R, north of 14 Mile Rd.



ASPE News is published 10 times per year (September through May, plus one summer issue). Yearly advertising rates are \$250.00 per ad for members and \$300.00 for non-members. Insert advertisements are \$250.00 for one ounce and \$100 for each additional ounce. For HELP WANTED ad rates, quarter-page and half-page product ads, please contact Mary Chapman. Checks should be made payable to ASPE E. Mich. Chapter and mailed to the attention of Mary Chapman at 14801 W 8 Mile Rd, Detroit, MI 48235. All newsletter inserts should be mailed to ASPE-EMC Corresponding Secretary George Johnston with a copy sent to Mary Chapman. Circulation 400 - Distributed to: Engineers, Contractors, Inspectors, and other industry professionals in Michigan. For contributing articles contact Mary Chapman, Newsletter Editor at: mchapman@mcadetroit.org.