

ASPE NEWS

American Society of Plumbing Engineers

Eastern Michigan Chapter

http://aspe.org/Eastern_Michigan

Serving our membership since 1975

Vol. 13, Issue 4

Plumbing Design Classes

Date: Tuesday, December 15, 2009
Where: Plumbing Industry Training Center
SEE map on back page

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

Basic: Storm Water Systems
Vendor: New Technology in Plumbing
See page 3 for program & speaker

DINNER
5:30 - 6:00 PM

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

DESIGN CLASS
6:00 - 8:30 PM

Topic: LEED: Applications for and on Plumbing in Retrofit of Existing Buildings

Speaker: Ron George, CPD
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:

David Rhodes, VP Tech:
(586) 739-8915 x59 phone
drhodes@cr-plumbing.com

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PRESIDENT'S REPORT

John R. Nussbaum, IPP, FASSE



In closing out the year, I would like to wish you and your families a Merry Christmas, Happy Chanukah and a happy, healthy and prosperous New Year. May God watch over our men and women serving in the Armed Forces who are in harms way to keep and preserve our freedom and liberty that those who came before us fought and died for. We should all stop and pray for peace and the safe return of these brave men and women during this holiday season.

I sincerely hope that the light attendance at the September and November meetings was due to short notice and a change of dates, and not of the hard economic times that we are all going through. It is important that we do not lose sight that the educational programming being provided is designed to help keep you informed and up-to-date in a constantly changing plumbing and mechanical industry. ***It is times like this in which continued education is most important to our survival.*** As you may already know, this year's programming is what the industry changes are all about—we are being pushed toward energy and water conservation by the federal government. Alan Deal's program, "Capturing the Real Green in Cost Effective Hot Water Renovation Projects Design and Engineering", was not only very interesting and informative, but also eye opening and very GREEN. I hope you are aware that the September 2009 through June 2010 selected offerings are what the members asked for, i.e.Green and LEED promoted.

continued on page 4

PLEASE BE AWARE










The national society recently introduced a refreshing new web site design. With the transfer of content, the Eastern Michigan Chapter web address has changed. Our **new web site address** is:

http://aspe.org/Eastern_Michigan

Please make sure you **bookmark** our new address in your computer.

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She composts. Collects rain water in barrels. Recycles everything. Buys green energy from the power company. Drives a hybrid. Kristin cares about the environment. But not about which brand of faucet you installed in the executive bathroom—only that it saves water. She doesn't care that you chose an electronic T&S faucet that is one of the most water-efficient out there, or that it's built to legendary T&S quality standards. She just wants to wash her hands with as little water as possible. Help Kristin save the world. Use T&S.



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December Tech Program

LEED: Applications for and on Plumbing in Retrofit of Existing Buildings



Ron George

Ron George is the president of Ron George Design & Consulting. Ron is very familiar with the Plumbing and Mechanical codes and standards and sits on numerous plumbing & mechanical codes and standards committees. He has 30 years of experience designing Plumbing & Mechanical Systems for several major architectural/engineering and design/construct firms. He has served as an expert witness in many cases and performs forensic investigation all around the United States. He has designed plumbing & mechanical systems for all building types including airports, stadiums, industrial manufacturing facilities, office buildings, commercial and retail buildings, hospitals, laboratories, prisons, jails, hotels, apartment buildings, military projects, and educational facilities.

forms forensic investigation all around the United States. He has designed plumbing & mechanical systems for all building types including airports, stadiums, industrial manufacturing facilities, office buildings, commercial and retail buildings, hospitals, laboratories, prisons, jails, hotels, apartment buildings, military projects, and educational facilities.

Program: Overview of the LEEDs Program (Leadership in Energy and Environmental Design): LEED Points System for Plumbing; Survey of existing building for potential savings (Water, Energy); Pitfalls (electronic fixtures, oversized pipe, diversion of waste for greywater reuse, scalding concerns with older style two handled shower valves and low flow shower heads etc.); Saving water and energy wisely; Benefits from Energy & Water savings; Sample water and energy savings for two existing buildings.

December Vendor Program

New Technology in Plumbing



George Johnston

George Johnston is the president of Balfrey & Johnston, Inc. George has been involved with the plumbing community since 1979 as a manufacturer's representative. Major lines that he represents include Zurn, Elkay, Leonard Valve, Navien, and Guardian Safety Equipment. George has a Bachelor of Arts in Marketing from Michigan State University. His duties include both engineer and contractor training sessions and long-term strategic planning among many others. George has been a member of the Eastern Michigan chapter of ASPE since 1980, and has served as its corresponding secretary since the early 1990's.

term strategic planning among many others. George has been a member of the Eastern Michigan chapter of ASPE since 1980, and has served as its corresponding secretary since the early 1990's.

Program: The December 2009 vendor program will focus on water saving products. George will discuss specification products that can be used to greatly reduce a building's energy consumption, including low-flow plumbing fixtures and alternatives to traditional water heaters.

ASSE Michigan Chapter

John E. Matthews Scholarship Fund Raffle

WIN A 42 INCH TELEVISION

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

ONLY 500 TICKETS PRINTED

**Raffle tickets will be available for purchase
at the December ASPE Meeting**

Drawing will be held Saturday, January 30, 2010
at the ASSE Annual Awards Banquet,
Shriners Conference Center in Southfield, MI.



NEED NOT BE PRESENT TO WIN



CPD Examination

Registration begins on January 5, 2010

Registration deadline is March 19, 2010

Exam dates are April 16 & 17, 2010

To help get you prepared:

Joe Hernandez, CPD, will be conducting
CPD Preparation Classes 1 & 2 at the
February 16 and March 16 ASPE EMC meetings
from 3:30 - 5:30 pm

Did you know...

According to CareerVoyages.com, a website jointly maintained by the U.S. Departments of Labor and Education, the plumbing industry is among the top 50 occupations for job stability, median wage and anticipated demand.

President's Report

continued from page 1

The symposium showed many of us who attended that the design professional and PCA contractor **must** work hand-in-hand to fulfill the expectations of the owners, who are our customers. It is **they** who keep us in business. I have noticed that those of you who have managed to attend the meetings have stayed for the entire meeting, asked great questions, and let me know how well you liked what you had seen and heard.

The board of directors and I will continue to work hard at serving your needs to the best of our ability, however, we need your help and continued support to continue to fulfill your expectations and needs. Again, I wish to encourage the manufacturers representatives to take the initiative in inviting their customers to our meetings. It is as much to their interests to have customers come, see, and hear, as it is to the rest of us. We are providing the educational means and venue for networking within the plumbing and mechanical industry. I am looking forward to seeing you all at the December meeting.

*Your president,
John Nussbaum*



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be yours during this Holiday Season
and throughout the New Year*

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FOR KIDS OF ALL AGES

See the **West Oakland Railroad Museum** at Chi-Town Union Station - America's largest "O" scale model railroads with more than 7,000 feet of track in operations. About 25 trains running continuously through the elaborate layout.

Open Friday, Saturday and Sunday from 11 am to 5 pm
Admission - Adults: \$4; Ages 5-18: \$2; Under 5 years free
8275 Cooley Lake Road in Commerce, MI 48382
For further information call (248) 613-9471

Ed's Perspective

By Ed Hawley, CPD



The November technical program titled, "Capturing the Real Green in Cost Effective Hot Water Renovations Projects."

Guest speaker, Alan Deal, PE, eloquently delivered a program with many examples of projects by his company, Performance Engineering Group, Inc., which specializes in providing complete engineering packages to the installation contractors.

Alan, the company president, has been very active in the designing and marketing of domestic hot water systems and hydronic radiant heating systems, since 1964. He's very active in board membership and as past president of ASHRAE and EMRPA. Also, he is a member and great contributor to the ASPE Chapter.

The program contained a PowerPoint presentation, illustrating various hot water systems, many were renewable energy renovations, solar panels on the roof with storage tanks, heat exchangers, pumps and various types of monitoring and certain reporting sensors to a master panel, identifying weather outdoors, giving energy summaries, like keeping constant records of operating data for instant review.

A non-profit housing project, improved an existing system on a specific goal of delivering an ROI, of less than 5 years! Using all 37 year old equipment, two were existing 50hp hot water boilers and one existing 40hp hot water heater. With savings of the overall cost of natural gas, from using solar panels on the roof.

Alan spoke of:

1. What happens when you over size?
2. Design strategies
3. Steam to water conversions
4. Radiant heating and LEED
 - a. Relating boiler efficiencies—combustion, thermal and dynamic
 - b. Following ASHRAE 90.1b – Minimum standards
 - c. Impact of system type of efficiency
5. What's in Your Tool Box?
 - a. How current are your tools?
 - b. How much cushion is built in?
 - c. How much additional safety factor do you add?
6. Design resources—ASHRAE'S handbook and ASPE'S *DWHD Design Manual*
7. Different design tools:
 - a. Utility bills, going back in the history for data analysis
 - b. Sub metering of loads
8. Issues with the over-sizing:

- a. Poor control responses
 - b. Increased equipment and installation cost
 - c. Increased space requirement and operating cost
9. Provided a number of case studies.
 10. Check the modified Hunter's Curve for hot water flow rate.
 11. There were many other hot water system examples to numerous for this report.
 12. Over 50% of boiler issues are the venting related problems.
 13. Outdoor boiler solutions
 14. Steam to hydronic conversions
 15. Conversions of steam boilers to hydronic boilers examples
 16. Replacement boiler strategy
 17. Places to use condensing technology
 18. Design strategies – hybrid systems
 19. Multi-boiler controls
 20. Want to reduce your boiler's carbon footprint by 90%?
 21. Play the Green card and Return on Investment.

Radiant heating introduction:

- a. LEED and radiant heat
- b. A list of 7 possible points areas
- c. There were 5 projects covered.
- d. LEED and snow melting with 4 possible points area
- e. Why use permeable pavements?
- f. Benefits in 5 areas

Snow melting, reduces cost, increases access, improves egress:

- a. Labor, insurance, extending paver life, always ready for traffic are some of the main values in this type of investment.

I tried to condense the total presentation, there are many more details not even covered. However, this summary gives an idea of how much was missed by the people not being at this very informative presentation. See what a good education can be had by attending ASPE'S monthly meetings?

Thanks for taking the time to read this timely report, hope you enjoyed it.

Edwin Louis Hawley, CPD

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Conv — Perform unit conversions; access secondary functions

Work in and Convert Flow Rates — Cubic feet per minute/second, gallons per minute, liters per second

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Cost — Calculate total material cost based on Stored Unit Cost and entered or calculated material quantity



Force — Calculate Force and convert between lbf, newton

Area — Enter for Flow, Velocity, Pressure, Force calculations or calculate Area given values for flow/velocity or force/area

Pipe Materials — PVC, Copper, Steel, Stainless Steel, Brass, Aluminum or Cast Iron

Pipe Type — Determine Pipe Type/Thickness based on material setting

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Tape — Paperless Tape; review last 20 entries

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PipeTrades Pro lists for \$89.95 (plus S&H)Yours for \$68 (plus \$1.50 S&H)
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To place an order contact John Nussbaum or Cassie Mudloff at (313) 341-7661. All proceeds will be used to send Code Study Group representatives to the national code hearings.

BALFREY & JOHNSTON, INC.

Manufacturers' Representatives
P.O.Box 37317
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www.balfrey-johnston.com

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Brian Burke, Tom Zimmerman, Brett Young
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bburke@burkeagency.com
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www.performanceengineering.com

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TAGGART-KNIGHT GROUP

Manufacturers' Representatives
32985 Hamilton Court, Suite 102
Farmington Hills, MI 48334
Gary O. Taggart
Ph 248 553-4388 Fax 248 553-4653
info@taggartco.com

TRO SALES COMPANY

Manufacturers' Representatives
3406 West 12 Mile Road
Berkley, MI 48072
Thomas R. Osberger
Ph 248 546-5354 Fax 248 546-3513
trosalesco@aol.com

ASPE NEWS

American Society of Plumbing Engineers-Eastern Michigan Chapter

Mary Chapman, Newsletter Editor
P.O. Box 37317
Oak Park, MI 48237

Internet Address

http://aspe.org/Eastern_Michigan
Region 2 - Great Lakes
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John Nussbaum, FASSE IPP
MCA Detroit
14801 W. Eight Mile Road
Detroit, MI 48235
(313) 341-7661 x 211 Fax: 341-1007
jnussbaum@mcadetroit.org

Vice-President Technical

David Rhodes, CRD
C & R Plumbing & Heating, Inc.
47141 Pinecrest
Shelby Twp., MI 48317
(586) 739-8915 x 59 Fax: 731-5650
drhodes@cr-plumbing.com

Vice-President Legislative

Barry Pines, CPD
C&R Plumbing & Heating, Inc.
51195 Fischer Park Drive
Shelby Twp, MI 48316
(586) 739-8915 Fax: 731-5650
bpines@cr-plumbing.com

Vice-President Membership

Rick Johnston
Dave Watson & Associates
1325 W. Beecher
Adrian, MI 49221
(517) 263-8988 Fax: 263-2328
rjohnston@davewatson.biz

Treasurer

John Snyder, CPD
31758 Edgeworth Dr.
Madison Heights, MI 48071
(248) 588-8741 Fax: 577-0104
johnsnnyder@wowway.com

Administrative Secretary

Paul Bladdick
LPB Company
379 Shotwell Court
White Lake, MI 48386
(248) 698-9292 Fax: 698-9227
bladdick@comcast.net

Corresponding Secretary

George Johnston II
Balfrey & Johnston, Inc.
P.O. Box 37317
Oak Park, MI 48237
(313) 864-2800 Fax: 864-7219
george2@balfrey-johnston.com

Director

Jeremy Brown
NSF International
789 N. Dixboro Rd.
Ann Arbor, MI 48105
(734) 769-5196 Fax: 827-7129
brown@nsf.org

Director

Allen Verriest
46134 Meadowview
Shelby Township, MI 48317
(586) 932-6169 Home
(586) 295-2005 Cell
averriest@cr-plumbing.com

Chapter Affiliate

Cindy Zatto
V. E. Sales Company, Inc.
25200 Jefferson Ave.
St. Clair Shores, MI 48081
(586) 774-7760 Fax: 774-1490
cindy@vesalesinc.com

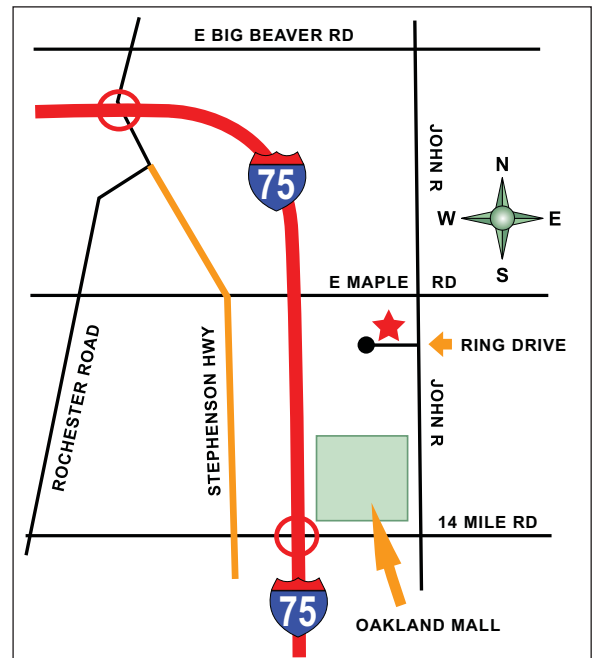
Student Liaison/ Lawrence Tech

Ryan Beaudrie
R. George Design & Consulting
P.O. Box 47
Newport, MI 48166
(734) 322-0225 Fax: 322-3949
ryanbeaudrie@yahoo.com

Newsletter Pub/Web Editor

Mary Chapman
MCA Detroit
14801 W. Eight Mile Road
Detroit, MI 48235
(313) 341-7661 x 210 Fax: 341-1007
mchapman@mcadetroit.org

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.