



ASPE NEWS

American Society of Plumbing Engineers

Eastern Michigan Chapter

http://aspe.org/Eastern_Michigan

Serving our membership since 1975

Vol. 14, Issue 3

Plumbing Design Classes

Date: Tuesday, November 23, 2010
Where: Plumbing Industry Training Center
SEE map on back page

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

Basic: Site Utilities for Health Care Facilities
Vendor: Air Elimination
Speaker: Jim Eardley
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: Impact on our Plumbing Industry by Legislative "No-Lead" Mandates
Panel: Dann Holmes, Moderator
See page 3 for program & bios

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



October's meeting could have been a real disaster had it not been for Jim Eardley from Target Sales who was scheduled for the early meeting. We were left without our scheduled evening program and speaker, Michael Dolkowski. I received a call that he was hospitalized at 2:30 PM. Jim Eardley stepped in with a New Solar Technologies PowerPoint program from Caleffi, which was well received by the members and guest in attendance. Without an early program scheduled, we would have been up the creek without a program. Thank You, Jim Eardley!

This experience has caused the board of directors and I to work closer with our Manufacturers with products requiring installations needing engineering data and skills necessary in today's mechanical and plumbing systems. We are now in the process of collecting PowerPoint programs to have on hand should we encounter similar situations where we are without a program/speaker. Within our membership ranks, we have some very talented people who could step in and put on one of the canned programs we are in the process of obtaining or do a program straight out of the ASPE Data Books.

I urge the manufacturers' reps to come forward and participate by being part of our endeavor to put on the early 3:45 to 5:00 or 5:30 programs introducing new products and engineering methods needed to stay current in our fast changing Plumbing and Mechanical Industry.

Details for a six-hour credited seminar aimed at those of you who are now working in or at hospitals and other medical facilities will soon be announced. It will be open to the engineering, construction, regulatory and hospital people who are involved in one capacity or another. Your safety and that of the staff and patients are at risk each and every day. Our ASPE Chapter has contracted with speakers to put on a state approved program in February and March of 2011 (watch for the details in the very near future). Manufacturers, now more than ever, we need your table top displays to support the continuation of those superb home cooked dinners we have at our monthly meetings. Need I say more?

In closing, remember we are in need of new members and officers to serve and bring new thinking and ideas to the board. This is your chapter and its future is in your hands.

Your president,
John Nussbaum

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BACKFLOW PREVENTERS WITH BOILERS

Per Bill Vallance, Assistant Chief, Boiler Division, MI BCC

Interpretation: IV-07-03

Subject: HG-705, Feedwater and Makeup Water Connections

Date Issued: April 5, 2007

File: 06-949

Question: Is a separate check valve necessary if a backflow preventer, with dual check valves and an atmospheric vent, is installed in the dedicated feedwater backup water line of a Section IV boiler?

Reply: No, provided the backflow preventer with dual check valves and an atmospheric vent has a minimum pressure rating at least equal to the pressure stamped upon the boiler, and the temperature rating of the backflow preventer, including all internal components, shall be not less than 250°F (120°C).

When a backflow preventer is installed that has a temperature rating below the design temperature of the boiler, it must either be replaced with an acceptable model or a feed check valve with a proper temperature rating shall be installed between the boiler and the backflow preventer.

Questions or concerns may be directed to the Boiler Division at (517) 241-9334.

Product tester #473



He chased 6 girls. Dug up 12 rocks. Found 4 beetles. Jumped off the swings 19 times. Into the mud. And now he's been ordered to wash up before he dares set foot back in Mrs. Sanders' classroom. Timmy doesn't care that you've installed T&S

faucets. That they've been failure-tested to 100,000 cycles. That, like all T&S products, they're made from nearly indestructible components. That you can get a replacement

part overnight (on the extremely rare chance you should ever need one). Frankly, Timmy doesn't even care whether or not your T&S faucets work. But you care, thanks to all the Timmys out there. Yes, indeed, boys will be boys. Install T&S.



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November Tech Program

Impact on our Plumbing Industry by Legislative “No-Lead” Mandates



Dann Holmes

We welcome **Jeremy Brown** of NSF International, **Michael Gillespie** of Viega NA, **Barry Pines**, CPD and Master Plumber, and **Wayne Robinson**, Chief Plumbing Inspector with the City of Detroit, to participate in a panel discussion with **Dann Holmes** of Viega acting as moderator.

Program: The panel will discuss current and upcoming code and standard changes in our plumbing industry. Topics will include new NSF testing for “yellow-brass” which takes effect January 1, 2011 and the “No-Lead” NSF-61 Annex G changes to all potable water systems that are scheduled for July 1, 2012. How do these changes affect NSF? How does NSF write testing procedures that are legislatively mandated by government bodies such as CA & VT? How does a manufacturer change their products and the materials they use to meet these changes? What are the costs? How does a plumbing contractor bid jobs knowing these changes are in place? How much will material costs affect their bottom line? How will the AHJ (Inspectors) enforce these changes? Will they truly understand the changes in brass and bronze alloys and what to look for? Be sure to bring your questions with you tonight, as time permits, we’ll open the floor to you too. When was the last time you had a chance to hear from codes and standards, a manufacturer, a contractor/estimator/project manager and a plumbing inspector at the same time, better yet, get involved?

November Vendor Program

Air Elimination



Jim Eardley

Jim Eardley represents Target Sales, a Michigan based professional representative agency founded in 1971. Target has represented leading manufacturers, such as Amtrol, Genova, Caleffi, many based or started in MI. In the hydronic areas, they have sold boilers, radiant heat, ASME expansion tanks, high efficiency air elimination products, and even solar systems.

Target Sales has represented Caleffi for the past three years, and has seen consistent growth in sales, and more importantly in the quality and quantity of training materials for the plumbing and hydronic industries. Jim is a 1981 U of M graduate, and has been employed as a technical representative for automotive manufacturers, and for the last 18 years in the plumbing, heating, and well water industries. Jim has benefited from the training provided by engineers and others at companies on the leading edge of innovation over many years.

VP Technical Report

Edwin L. Hawley, CPD



Due to an emergency, our scheduled program speaker, Mr. Michael Dolkowski, had taken ill and was rushed to a hospital. Therefore, our ASPE President John Nussbaum put plan “B” into action by asking Jim Eardley, the speaker for the afternoon’s October Vendor Program, to also be the Design Class speaker. By agreeing, the

evening was saved. Jim Eardley, a 1981 U of M, Graduate working for Target Sales, has represented a leading manufacturer, CALEFFI Hydronic Solutions, for the last three years.

The program was based on the Technical Journal Idronics No.3 (Jan. 2008) titled “What’s New under the Sun”, and No. 6 (Jul. 2009) titled “SOLAR THERMAL COMBISYSTEMS”. These are the Journals of Design Innovation for the Hydronic Professional. The the PowerPoint presentation’s title of was: “NEW SOLAR TECHNOLOGIES”, a step-by-step introduction on how the combisystems can be designed. The Journals are produced by CALEFFI Hydronic Solutions.

The introduction covered the present media obsessions with the direction of all the immediate energy saving steps we should be doing. A typical designed system cannot be applied to every situation. The evaluation of what energy sources that can be applied to the design for maximum ROI are as follows: The interest is in renewable sources, such as the sun, wind, and biomass materials, in various combinations and arrangements.

While hydronics are the leading source that holds most thermal-based renewable energy systems together, although heat sources such as solar collectors, solid-fuel boilers and geothermal heat pumps are indispensable components in such systems, they are not the sole determinants of efficiency, energy yield or financial viability. In the overall marketability of thermal solar systems hydronics, that can be and as well as an auxiliary energy source, to supply a portion of the domestic hot water and space heating needs of the building.

The PowerPoint presentation: Using toy LEGO pieces and toy mounting board and calling it a 3D CAD showed a typical solar layout drawing. It was a clever, neat and successful way to illustrate piping and equipment with any simple and available tools to get a point across. A good beginning is learning the main fundamentals of solar combisystem design. Like all the essential design principles, know the instantaneous collector efficiency. How necessary it is to provide freeze protection? Learn all controls required to run the system.

All the space heating options were introduced: heated floor slabs, heated thin floor slabs, of the site-built radiant panels, panel radiators, a forced-air distribution systems. Also covered were other possible types of design using certain equipment that is available now and in the future.

The topics of discussion covered and explained: What is a combisystem? Solar fraction. Some of the thermal equipment, like solar panel collectors, tanks, pumping stations, piping, controls,

continued on page 4

VP Tech Report

continued from page 3

and other items, like pumped glycol and drain-back systems, are all engineered solar water heating systems. The solar water heater connected to low temperature hydronic space heating is called a solar combisystem. This type of system, having low temperature radiant panel circuits, can be used for floor radiant heating, radiators highly zoned with a thermostat (one per zone) with the required types of valves, controllers, tanks for storage and heating, pumps single and dual systems. All wired according to a wiring schematic for each type of solar heating requirement. Several diagrams were illustrated, showing various methods of heating the solar water, generally operating at a low temperature of 120 degrees. The cooler the solar collectors can operate, the higher their efficiency, and the greater the amount of solar they harvest. The earth is tilted away from the sun in the winter—six months of winter—Jan, Feb, Mar, Oct, Nov and Dec. The F-chart simulation software will give you the predicted solar fraction of total space heating and DHW load in decimal %. So, to collect more heat in the winter you could add additional solar collectors and storage. However, we must consider a summer time issue—this could produce more than the demand. Apply the technique of increasing the tilt more vertical (greater than latitude plus 15 rule) or divert solar produced heat to other loads such as pools, hot tubs, or even back to the night time sky.

A 100% DHW and space heating example: A single structure containing 8 apartments that are 1,725 sq. ft. each, totaling 13,800 sq. ft. of total space heating. The total annual usage per unit equals to 6,770 gallons for a total storage capacity of 54,155 gallons. The roof area is 100 percent covered with 75 collectors sized 4' X 10', = 3,000 sq. ft. The system delivered 176 F storage temperature in May, giving the neighbors free heat. To calculate the heat load we can go to www.hydroneicpros.com and use room Heat Load Estimator Pro Version 1.13.

Here are additional solar calculation software:

RET Screen - www.RETscreen.net

F-Chart - www.fchart.com

Tsol - www.valentin.de

SolarPro IP - www.mausolarsoftware.com

Polysun - www.velasolaris.com

We have not scratched the very surface of the data available in those aforementioned Journals, so get your copies and join me in studying of the vast amount of knowledge that is presently available. After you have some understanding, I hope you get to use it on a new project.

REMEMBER - Please call 248-656-8253 to make your reservations or you can e-mail me at edwinhawley@att.net by Friday, November 19 and before 5:00 pm. Thank you and see you at the meeting.

*Ed Hawley, CPD
VP Tech*

October Design Class

Thanks to Cindy Zatto, with VE Sales, for providing photos.



Brett Young and Tom Zimmerman
with the Burke Agency



Jim Eardley with Target Sales

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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
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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.

Raffle tickets will be available for purchase from any ASSE Board member.

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

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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

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 Couples Admission Tickets: \$ 100 x _____ = \$ _____
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 TOTAL ENCLOSED \$ _____

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Duplicate this form if you are ordering for more than one table.

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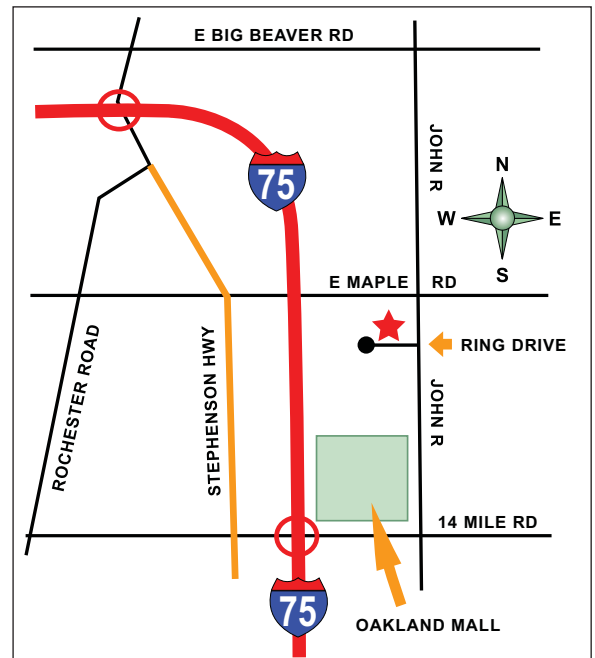
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Map to the Plumbing Industry Training Center 1911 Ring Drive - Troy, MI West of and off John R, north of 14 Mile Rd.



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