



ASPE NEWS

American Society of Plumbing Engineers

Eastern Michigan Chapter

http://aspe.org/Eastern_Michigan

Serving our membership since 1975

Vol. 13, Issue 5

Plumbing Design Classes

Date: Tuesday, January 19, 2010
Where: Plumbing Industry Training Center
SEE map on back page

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

Basic: Pump Basics
Vendor: No class this month
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: Pressurized Commercial Solar Thermal System Design

Speaker: Jim Rogers, LEED AP
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



The officers and directors wish you and yours a healthy and prosperous 2010. That being said, I invite your participation at the ASSE/ASPE annual awards night dinner on Saturday, January 30, 2010, at the Shriners Conference Center on Southfield Road in Southfield, Michigan. This will be our third year at this location at the request of the membership. Again, we will have an open bar, same dinner menu, and no increase in price. The John E. Matthews Scholarship Fund is, once again, raffling off a 42' flat screen TV,

limiting ticket sales to 500 tickets. The honorees receiving awards at this year's banquet are Jason Loverich (Lochinvar Manufacturer's Representative) recipient of the Malcolm Wallace Award; Edwin Hawley, CPD, (ASPE Engineer of the Year) recipient of the John E. Matthews Award; Matthew R. Kapcia (Backflow Prevention) recipient of the Larry Burkheiser Award; and Wayne Robinson (Inspector of the Year) recipient of the Albert Cohen Award. The L. Glen Shields Award will be presented to Joseph Hernandez, CPD. You also get to meet this year's recipient of the John E. Matthews Scholarship Fund money. I urge you to bring your wives, friends and relatives to come and honor these award recipients. There will be music and dancing for those who wish to get up and cut a rug. The keynote speaker is Richard Prospal, IPP, and member of the World Plumbing Council, who will speak on the subject, "Environmental Aspects of Plumbing". Ron Murray, ASSE International President, will install the 2010 Officers and Directors. Though we and our industry are going through hard times, this festive occasion is an opportunity to get your mind off worries while enjoying a social evening with other plumbing industry members. A good time was had by all last year and it is anticipated the same good times will prevail this year.

The upcoming year, 2010, will present some challenges and changes for the Eastern Michigan Chapter. The meeting we missed due to the power failure at the Plumbing Industry Training Center (PITC) will be made up in late May or early June as a lunch meeting from 12:00 PM till 2:00 PM. The timing of this meeting is a trial for our members prior to setting the agenda for the 2010/2011 meetings beginning in September. The board wants to know if scheduling daytime meetings would more easily work into our members' schedules and thus boost attendance. Alan Deal indicated at our December board meeting that ASHRAE has done this successfully and increased their

continued on page 4

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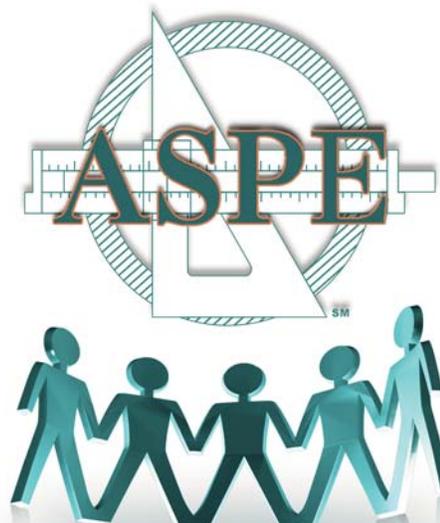
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Product tester #473



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VP Technical Report

David Rhodes, CRD



To LEED or not to LEED, that seems to be the question on the minds of architects, building owners, managers, suppliers and contractors across our nation. At our December seminar, Ron George gave an information packed presentation of one of the new LEED accreditations—LEED for Existing Buildings Operations and

Maintenance (EBOM, as I've heard it called).

Ron explained core principles of **LEED**, which stands for Leadership in Energy & Environmental Design, by first introducing us to the United States Green Building Council (USGBC). The USGBC developed and administers the LEED program, maintains the professional accreditation records, and certifies buildings. Ron took us through the basic process of LEED certification for new structures, showing us the value of buildings with LEED principles incorporated into their design from the foundation up.

While architects have the corner on designing new LEED buildings into which we design and incorporate HVAC and plumbing systems, there are thousands of buildings in existence which were constructed at a time when we didn't think about saving energy, reducing or recycling waste products, and the whole concept of "sustainability" meant staying profitable, not reducing consumption of resources.

Retrofit and the Mechanical/ Plumbing Contractor

Areas where we as mechanical and plumbing designers can save our clients real money is energy saving in the HVAC system and to a lesser extent savings through water conservation. Designing systems with highly efficient, properly controlled heating, cooling, ventilation and domestic water heating equipment is only a beginning.

To compete in the new paradigm of LEED-EBOM, we must be able show our clients the documentation of how a retrofit, using energy efficient HVAC equipment, insulation and properly controlled ventilation will increase productivity and profitability by lower operating costs and giving them a healthier work force by simply improving the quality of indoor air. Our understanding of LEED-EBOM will help our clients solve many other building operational problems.

Water conservation, on the other hand, is a bit trickier. Plumbing fixtures can be designed to use less water; water heating equipment made more efficient; and water can be metered, measured, filtered and reused. **However, Ron made us aware that unless we as engineers and designers take into consideration the real world physics of gravity flow drainage systems and hydraulic principles and safety factors required for proper hot water delivery, dangers arise.** Building drains back up due to insufficient water to carry waste, creating a bio-hazard, and severe scalding will occur in seconds if hot water delivery systems are not properly designed. Both problems lead to potentially fatal issues. And here we thought those 1.2 gallon

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

water closets and .5 gpm shower heads were the last word. Stay tuned as we learn more about LEED-EBOM.

*David Rhodes,
Vice President Technical*

January Tech Program

Pressurized Commercial Solar Thermal System Design



Jim Rogers,
LEED AP

Jim Rogers, LEED AP® is currently a sales consultant for the Prentice Company of Oak Park, Michigan, representing Viessmann and Raychem commercial products. Jim is a graduate of Macomb College Climate Control Technology Program and the Baker College Business Leadership degree program. Jim's experience during the past twenty-five years includes commercial boiler service, hydronic system design,

hydronic snow melting systems, renewable energy systems, hot water temperature maintenance systems, electric radiant, heat tracing, electric radiant, electric snow melt, commercial marketing systems and equipment system design. He currently resides in Rockford (Grand Rapids), Michigan and is a member of the Great Lakes Renewable Energy Association, West Michigan Chapter USGBC, ASPE and current President of the West Michigan Chapter of ASHRAE.

Program: SRCC ratings and what they mean; Energy Savings Goals; Designing with OG100 Solar Collectors: Flat Panel and Vacuum Tube; System modeling with software; Solar Thermal System components; Piping design -stand alone systems; Piping Design - combined Systems; System Control Strategies

President's Report

continued from page 1

attendance. I would like to have the members come forward and give us some direction as to what your preferences would be regarding our meetings.

In March or April, we will have a half day seminar from the ASPE 2nd edition of their *Domestic Water Heating Design Manual*. Alan Deal will be the presenter and the seminar will take place at the PITC. Also under consideration is a five or six hour **plumbing code update class** for plumbing contractors and plumbing engineers on the **2009 Michigan Plumbing Code** at the PITC.

Now the challenges: We are not making our monthly expenses due to a lack of table top displays funded by our manufacturers representatives. Again, it is the local economy, but unless this changes we will have to charge a dinner fee of \$25.00 per attendee as some other chapters do. I sincerely hope that this will not become necessary and that the manufacturers step up and support the chapter through the table top displays and by

taking advantage of inviting their customers to come, see and hear about their new products. If you are wondering about our monthly expenses, they are the newsletter produced by Mary, mailings and printing by George Johnston, our share of the copier cost, and the dinners provided by our caterer, Ginny. Not included is what is donated by MCA Detroit in staff time and the use of the Plumbing Industry Training Center. As your elected president, like it or not, it is up to me to keep you informed of the chapter's activities no matter whether positive or negative the buck stops here with me. I hope to see and hear from more of you at the January meeting.

*Your president,
John Nussbaum*



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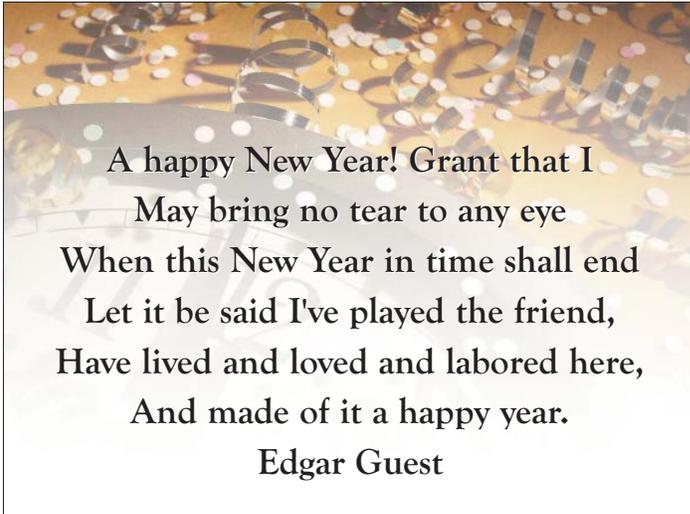
ScienceDaily (Dec. 22, 2009) — A timely study in the journal *Human Factors* suggests why texting while driving is riskier than talking on a cell phone or with another passenger. Human factors/ergonomics researchers at the University of Utah found that texters in a driving simulator had more crashes, responded more slowly to brake lights on cars in front of them, and showed impairment in forward and lateral control than did drivers who talked on a cell phone while driving or drove without texting. If drivers on cell phones are four times more likely to be in or cause an accident, where does that put drivers texting?

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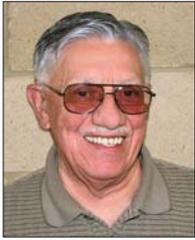
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A happy New Year! Grant that I
May bring no tear to any eye
When this New Year in time shall end
Let it be said I've played the friend,
Have lived and loved and labored here,
And made of it a happy year.
Edgar Guest

Ed's Perspective

By Ed Hawley, CPD



At the ASPE December 15, 2009 meeting of the design class presentation, speaker Ron George, CPD, delivered "LEED: Applications for and on Plumbing to Retrofit of Existing Buildings." Plumbing and waste problems were identified and illustrated, showing that the LEED's application to any project needs a lot of additional input to make it more viable and assertive to match the method used by the

Architectural Design interpretations and grading. It's in the class 101 level, which brings up the subject of the entire Green craze we are seeing and experiencing today...I now have adopted the new word called 'Greenwashing'.

The only way to cool something as hot and pervasive as 'Greenwashing' is through widespread education from a source that can safely be said to have no vested interests in monetizing that education. Even then things may not be what they seem. In fact, recently I have read some documentation asserting that out of 2,219 products displaying 4,996 environmental claims, the researching agency identified 98 percent to be false, misleading or too vague. The same document points to a *USA Today* article that alleges more than 10 percent of ads in major publications contain Green claims.

Here's hoping that I am not the only one who is paying attention to the details and scientific studies (by real and true members of the scientific community, sticking to real data with proof to support it), reading everything available on the Green subject in the publication world, who sees and experiences all the 'Greenwashing' washing taking place over all of the industries? Has anyone else been had by false, environmental, and the holier-than-thou claims? Shouldn't we all be more aware and diligent before selecting any products that may not deliver completely based on our recommendations and required performances? Let's try to keep a very high level of individual professionalism, living up to the best of the world standards, by maintaining the highest degree of education and not become enraptured or swooned in with the 'Greenwashing'.

*Edwin Louis Hawley, CPD
Happy New Year!!!!*

Here is an abbreviated list of reliable sources, for finding independent or government sponsored organization that you can trust (for the most part) on environmental issues with verifiable information and sources:

- ▼ Environmental Protection Agency, www.epa.gov
- ▼ Department of Energy, www.energy.gov
- ▼ American Society for Testing and Materials, www.astm.org
- ▼ National Institute of Standards & Technology, www.nist.gov
- ▼ American National Standards Institute, www.ansi.org
- ▼ International Organization for standardization, www.iso.org
- ▼ U.S. Green Building Council, www.usgbc.org
- ▼ U.S. Green Building Council's Leadership in Energy and Environmental Design rating system, www.usgbc.org/leed
- ▼ Energy Star Program, www.energystar.gov
- ▼ Air & Waste Management Association, www.awma.org
- ▼ Oxo-biodegradable Plastics Association, www.biodeg.org
- ▼ Association of Energy Engineers, www.aeecenter.org
- ▼ Institute of Environmental Science and Technology, www.iest.org
- ▼ Greenwashing Index, www.greenwashingindex.com
- ▼ ASHRAE Building Energy Quotient Program, www.buildingEQ.com

ASPE, ASSE, Contractors, Inspectors, Venders, and guests as members should plan on attending every meeting, so to be better prepared in dealing with the economy, a need for more projects to work on and keeping our education at the highest levels. See you all at the January 19, 2010. Let's start the New Year with every effort being made to improve our knowledge and verbal skills.

The 2010 Certified in Plumbing Design (CPD) exam will be held April 16 or 17 in electronic format only, and 200 testing sites are available throughout the U.S. and Canada. Full members are automatically approved to sit for the exam. The deadline to register is March 19. To download the CPD Bulletin and register online go to <http://aspe.org/CPDCertification>. Contact ASPE's Director of Membership Stacey Kidd (skidd@aspe.org) for additional information. CPD Practice Examinations can be found by signing on to the CPD examination web site (go to www.aspe.org). Each practice test is 30 questions and is set-up to follow the experience distribution of questions as described in the Bulletin. Registration for the practice exams is only available on the web-site; there is no paper registration form. There is a fee for taking each practice exam; see the registration form on the web site. Immediately following your taking of a practice exam, you will be given your scoring (scoring percentages are given in reference to the four experience areas) and for each question you answered wrong there will be an explanation of the correct calculation or expected answer.



American Society of Sanitary Engineering Michigan Chapter

You are cordially invited to the

ASSE Michigan Chapter

Annual Meeting & Awards Banquet

Saturday, January 30, 2010 - 6:00 PM

Shriners Conference Center

24350 Southfield Road - Southfield, MI 48075

Open Bar

Dinner

Entertainment

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



Richard J. Prospal, IPP - Keynote Speaker **Topic: Environmental Aspects of Plumbing**

Key issues that we, as caretakers of our planet, must deal with and be very aware of on a daily basis.

Rich Prospal is the International Past President of the American Society of Sanitary Engineering and a member since 1981. He served as chair of the ASSE Products Standards Committee for 15 of those years. Rich is presently a member of the executive board of the World Plumbing Council as well as a member of ASPE, NFPA, ABPA, IAPMO, ICC and many other industry related organizations. Rich began his apprenticeship in 1964 with Plumbers Local Union #55 in Cleveland, Ohio and retired from Reliance Mechanical Corp. as vice president of plumbing operations 40 years later. Currently, Rich operates a plumbing and mechanical project management and consulting business with over 45 years experience in the plumbing and mechanical fields.

John E. Matthews Scholarship Raffle

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Drawing on Saturday, January 30, 2010

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John E. Matthews, PE
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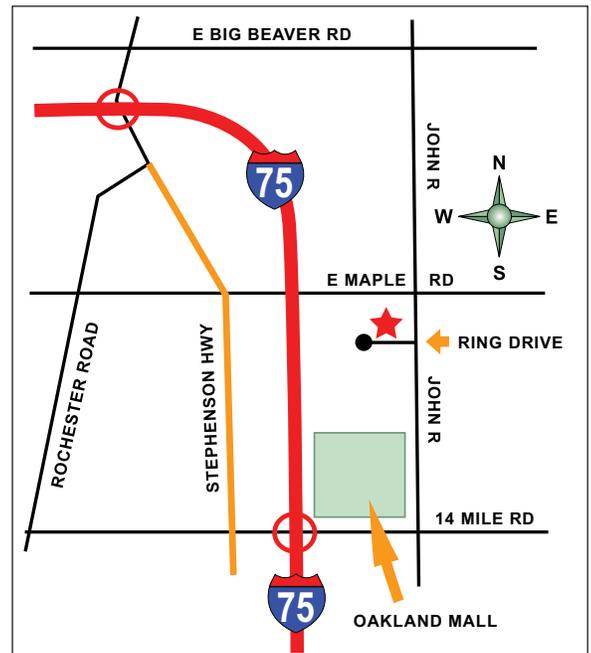
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West of and off John R, north of 14 Mile Rd.



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