



American Society of Plumbing Engineers

ASPE NEWS

Eastern Michigan Chapter

www.aspe.org/Eastern_Michigan

Serving our membership since 1975

Vol. 13, Issue 2

Plumbing Design Classes

Date: Tuesday, October 20, 2009
Where: Plumbing Industry Training Center
1911 Ring Drive
Troy, MI 48083
SEE map on back page

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

Basic: Domestic Cold Water D & E
Vendor: Bonding of CSST Gas Piping
See page 3 for program

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: Michigan Regulations for Geothermal Closed Loop Systems
Speaker: Michael Gaber & Jim McEwan of the Michigan DEQ
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 September meeting; those who failed to attend the meeting missed an opportunity to learn where and how to get some of that stimulus money being made available through governmental grants to green government buildings. The few who did attend stayed over with the speaker asking questions and taking notes. Needless to say, I was disappointed in the turnout and wondering if the effort of asking you, the members, for the topics and speakers you want is worth the effort. The comments heard during and after the meeting from those in

attendance where positive and indicated they would like a follow-up on the subject with the same speaker.

Plumbing Engineering and Contracting Technical Symposium

Time is running out ASPE and PCA / MCA Detroit members. I cannot stress to you enough the value of taking advantage of this cost-effective premier technical and professional educational event here in our own backyard. Two and one half days of instruction taught by nationally recognized experts, designers, engineers and contractors. I implore you not to miss this exceptional unprecedented opportunity to stay informed of our rapidly changing technologies. Those of you who would like to enhance your careers by becoming certified plumbing designers, this is your opportunity to take a full day of instruction in preparation for the CPD exam for an additional \$35.00 (including the book). It is a bargain.

Registration forms are available at 14801 West 8 Mile Road. Checks are to be made out to the Eastern Michigan Chapter of ASPE. Remember, the chapter is subsidizing the first 30 persons who sign up on a first come first served basis.

IT IS FREE

The on-site Engineered Plumbing and Contracting Exhibition is free on Thursday, October 22, from 3:00 pm till 8:00 pm. The Manufacturers are providing food and drink! Bring your employees. The manufacturers desire your attendance—the more that come, the better they like it. Again, the Place the Hyatt Regency Dearborn, for more information you may contact me at (313) 341-7661 ext. 211.

Help! Manufacturers

I again am asking for your continued support. Only one table top was reserved at the September meeting. It did not cover the cost of dinner.

Newsletter advertisers—we need your ads to support the publishing of the

continued on page 4

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October Tech Program

Michigan Regulations for Geothermal Closed Loop Systems



Mike Gaber

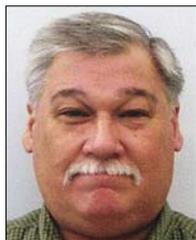
Mike Gaber is Chief of the Well Construction Unit, Michigan Department of Environmental Quality, Lansing. Among Mr. Gaber's duties are implementing the Michigan Water Well Construction and Pump Installation Code (with assistance from 45 county and district health departments), and managing the water well drilling contractor registration program. Mr. Gaber has been employed with the State of Michigan's drinking water program for nearly

30 years and is instrumental in improving practices in the water well industry for the protection of public health. His educational background includes a biology undergraduate degree from Northeastern Illinois University, Chicago, and a master's degree from the School of Public Health, University of Michigan, Ann Arbor.

Program: Geothermal Heat Pumps – Regulatory Perspectives provides an overview of heat pump technology and explains environmental concerns and regulatory implications. The presentation covers how the Michigan Department of Environmental Quality is working closely with industry to develop standards for construction, decommissioning and reporting of geothermal closed-loops. Water Well Construction in Michigan looks at well drilling trends and highlights some of the unique aspects of groundwater development in Michigan.

October Vendor Program

Bonding of CSST Gas Piping



Steve Cook

A long time resident of Georgetown, Texas, Steven Cook learned the plumbing trade while in high school and continued to work afternoons and summers doing plumbing and mechanical work while attending college. He has a Bachelor of Science in Management Science and a B.S. in Marketing with a minor in Applied Mathematics. After graduation and a brief stint in the hi-tech business, Steve joined a manufacturers' rep firm that sold

plumbing/mechanical products in Texas and has been in the rep business for several years. In January 1990, Steve formed his own rep agency and sold it 10 years later to PMI Sales & Marketing, continuing to work for the company for 2 more years. Steve joined Omegaflex (TracPipe) in 2002. His primary duties involve working with mechanical contractors and engineers, but he also works with plumbing/mechanical distributors and interacts with a number of inspectors each week.

Program: The history and background of Corrugated Stainless Steel Tubing with applications for Residential, Commercial/Mechanical service and repair work and new construction plus Industrial applications will be discussed. Installation practices covering protection, location of CSST, heat and/or flames and code compliance will also be covered. Question and answer period to follow.

VP Technical Report

David Rhodes, CRD



It was good to see many familiar faces, renew acquaintance and meet new folk as we kicked off the 2009-2010 Class and Seminar season. The education committee has again put together well-rounded programs for this year. We are certain everyone in the Plumbing Industry will benefit by attendance. The wealth of information coming our way is remarkable.

Handbook Class: Joe Hernandez put together the Design Handbook Class schedule to prepare those of us interested in taking the exam to be "Certified in Plumbing Design". The CPD accreditation of individual designers as has become internationally recognized as a truly professional designation and shows both employers and clients you have the knowledge necessary to provide first-rate plumbing designs.

Having started with the September class on "Sanitary Systems Design & Engineering", Joe will present Design and Engineering classes on Cold Water Systems (Oct.), Hot Water Systems (Nov.), Storm Systems (Dec.) and Pump Selection (Jan.).

Then, CPD Preparation Classes will be given in February and March. These classes are vital to those who plan taking the 2010 CPD exam.

Joe will follow in April and May with "Natural Gas Piping Systems Design and Engineering" and "Mechanical and Plumbing Estimating."

Vendor Class: Jim Brock from Green Pipe Industries gave a presentation on Aquatherm piping. He gave us the history of the fusion joined material and showed us the many advantages of this joining system. The German made piping system has made use of colors to identify specific systems such as Potable Water, Heating and Cooling and Fire Protection.

One feature of the pipe is that it contains no PVC or CPVC, which is toxic when burned. Even in a fully developed fire, Aquatherm pipe produces nothing other than CO₂ and H₂O gas (water vapor), posing no danger to building occupants or fire fighters. It is available in sizes up to 12" diameter with a full line of valves and fittings.

September Meeting Sponsor: I would like to thank Dominic Bologna from J & W Investments, our local distributor of Aquatherm Pipe, for sponsoring September's meeting.

Design Class: The seminar speakers for this season will take us from how to capitalize on Green initiatives, to energy saving solar design theories. From the latest in geothermal, to LEED's retro fit, Rain Water Harvesting (coming soon to a State near you), Water Safety, Variable Speed Pumping, and Chemical Piping Systems. September brought us "Why & How - Mechanical Engineers & Contractors Need to be LEED Certified." Presented by Michael Dolkowski, this subject was well received by all in attendance. He led us from the beginnings of the energy conservation and recycling industry to the "Green" industries of the present. Mike took the seminar attendees on a journey demonstrating how earning LEED AP shows potential clients you and your staffs understand the nature of Green Building. He showed how to navigate your way through

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President's Report

continued from page 1

newsletter, flyers and the annual program brochure. These are the items that allow us to serve and communicate with you and the members. Without your continued support, we can't exist. Dues alone are not enough to fund the activities you have come to enjoy. We are very fortunate to have a first-class meeting place for our meetings and events thanks to the Plumbing Industry Training Trustees and the Directors of Training at the Training Center and the support of MCA Detroit.

Joint ASPE / ASSE Meetings

For the benefit of new members whether ASPE or ASSE: When this all began over 12 years ago, we realized that the manufacturers were supporting two or more dinner meetings a month and to some of us this made no sense at all. There were fewer attendees, little or no networking, and competition for recruiting members was fierce. It wasn't long after the joint meetings began that attendance at the meetings went from about a dozen into the 40s and 50s. Networking increased to the point that contractors and plumbers became active with the design professionals and both ASPE and ASSE memberships grew. Many today belong to both of these associations and their boards of directors boast of having dual members serving on them. Because of all this, our associations have flourished and our ASSE Awards Banquet has become a huge success story. I might add that we have, on occasion, broke 90 at a meeting and last year had over a hundred in attendance. In summation, I must say it certainly has united the Plumbing Industry in Southeastern Michigan.

*Your president,
John Nussbaum*

VP Tech Report

continued from page 3

the State and Federal bureaucracy to profit in the growth industry of "Building Green". Leed AP will be necessary in many instances to win contracts and succeed in the new "Green Economy".

Mike also went into detail explaining how in many instances, being a Leed AP has become necessary to do business designing HVAC and Plumbing systems. He gave us the alphabet soup of agency acronyms you need to know to do win contracts with Federal Agencies. There is stimulus money out there and the Federal agencies have it. Mike was kind enough to stay after the meeting, answering many questions about LEED. His Power Point Slides are available to those who would like them, via e-mail, from John Nussbaum, Mary Chapman or myself.

Class and Dinner Registrations by Friday October 17th

I would like to thank those who registered by the Friday before the September meeting, for the classes, seminars and dinner. It has become increasingly difficult to order the correct number of meals for dinner. Ginny, our caterer, needs more than just a guess of how many meals to prepare. The food is purchased fresh and prepared the day of the meeting. We have to provide the final count on Friday at 1:00 PM. We pay for extra meals to ensure we don't run out of food before YOU are served. By registering, you help keep the work of all involved to a minimum, keep down costs and minimize wasted food. Call me at (586) 739-8915 x59 or, better yet, click on my e-mail link to register.

*David Rhodes
Vice President*

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Ed's Perspective

By Ed Hawley, CPD



Let's begin this report based on last month's ASPE meeting the seminar's subject was being GREEN with LEED certification, and today's upgrades towards energy conservation.

First is to learn the requirements of the U.S. Green Building Council and getting an accreditation in your own special areas by taking the test and passing it in order to use

the LEED accredited label. This may open some advantages for projects of work in many new and existing buildings. Now let's look at some of the disadvantages of Green Building.

1. **Initial upfront cost**—is the most prohibitive disadvantage, the eco-friendly building materials that come with much higher material and labor prices.
2. **Funding**—Finding a lender who offers loans for a building that is non-traditional often make it difficult in certain areas of the country. In addition, lenders have applied some restrictions that made it very difficult for builders to follow and comply.
3. **Availability of materials**—Projects that are near a large city have an easier time finding building materials and do not have to special order, that can cause the rise of cost to the total project.
4. **The location**—can play the biggest factor in making Green buildings not feasible. Areas of the country may preclude certain Green building styles due to local restrictions and codes, and may not allow various uses of certain materials.
5. **Time frame**—Since some of Green building projects encourage the use of recycled and new found materials, time may become a disadvantage. Finding the needed materials may take extra time that the builder and/or homeowner cannot accommodate in his project time frame. This requires very good planning to secure all items that are needed, before even thinking of starting the project.
6. **Who can help?**—Start by finding all the design and installation services, contractors, vendors, the suppliers of materials, and a Green accredited consultant, to discuss and set up a schedule, time, funding, and get at least (4) four good estimates of every item in the project.
7. **Resources**—U.S. Green Building Council

What you can do personally:

- A. Make use of a study (nothing big) just by looking around your home and the place you work. Begin by putting all available ideas and suggestions to play right now in your life, by making small changes throughout your entire home. Example: Start by utilizing CFL lamps entirely throughout the house.
- B. Look at the energy-efficient changes that are easy to plan and make. Check carefully to see if you can qualify for Federal

tax credits as a part of the Emergency Economic Stabilization Act of 2008, and the American Recovery and Reinvestment Act of 2009. These are Federal tax credits available to home owners who improve their home's energy efficiency. There are other programs that run until year 2016.

- C. A tax credit is actually better for a taxpayer than a tax reduction because it reduces your tax bill on a dollar-for-dollar basis for the amount of the credit, whereas a deduction only reduces the amount of income taxed. *Check this out further.*
- D. Here are a few items for the home owner starting with the roof, windows, doors, insulation, furnaces, boilers, central air conditioners, air source heat pumps, non solar hot water heaters, and biomass stoves, which can qualify for about \$1,500.00. This is available to existing home owners only. Many other items are also available if you want to check on them further.
- E. The State of Michigan Energy Efficiency/Renewable Energy Tax Credit is also offering help for the homeowner based on income limits. Download the Michigan Department of Energy, Labor and Economic Growth Web page, for all the other information.
- F. The utilities, like DTE Energy and Consumers Energy, provide many types of rebates for their customers. Check with them for all available items.

You can find all of the above notations mentioned by searching the web with your computer. GO GREEN

ASSE Michigan Chapter

John E. Matthews Scholarship Fund Raffle

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**Raffle tickets will be available for purchase
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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



ASPE / PCA 2009 TECHNICAL SYMPOSIUM

Take advantage of the special rate of \$395 per person being offered to ASPE Eastern Michigan Chapter members and MCA Detroit PCA members to attend the 2009 Symposium. Complete your registration form and mail with your CHECK (made payable to ASPE EMC): MCA Detroit, 14801 W 8 Mile Rd., Detroit, MI 48235. Hurry! This offer is limited. The national Society WILL NOT give you this special rate. You MUST register through John Nussbaum at MCA Detroit. Sorry - no credit cards accepted.

>>> 2009 Program at a Glance (tentative) <<<

This is a proposed schedule of programs and events. Schedules, programs and events are subject to change and will be updated regularly.

Thursday, October 22, 2009

Time	General Events and Activities
7:00 am – 6:00 pm	ASPE AND PCA BOARD, COMMITTEE AND ADMINISTRATIVE ACTIVITIES
1:00 pm – 8:00 pm	ASPE/PCA PAVILION AND BOOK STORE
1:00 pm – 8:00 pm	TECHNICAL SYMPOSIUM REGISTRATION — Lobby Level — Registration Counter
2:00 pm – 5:00 pm	Special On-site Engineered Plumbing and Contracting Exhibition REGISTRATION
3:00 pm – 8:00 pm	Engineered Plumbing and Contracting Exhibition

University of ASPE and University of PCA — Technical and Professional Development Programs

Time	General Program	Plumbing 101	BIM Building Information Management	Green Building Systems	Emerging and Advanced Technologies	Practical Engineering and Contracting
Friday, October 23, 2009 *15-minute breaks occur halfway through all sessions.						
7:30 am – 4:00 pm	ASPE Office/PCA Office	ASPE/PCA REGISTRATION — Lobby Level — Registration Counter				
8:00 am – 6:15 pm	ASPE/PCA Lounge	ASPE/PCA PAVILION AND BOOKSTORE				
7:30 am – 8:45 am	CONTINENTAL BREAKFAST					
9:00 am – 12:15 pm	15 minute break	Design of Water Piping Systems TS 100-1-1	BIM 1st Session TS 200-1-1	Design and Layout of Rainwater Harvest Systems TS 300-1-1	Design of High Containment Plumbing Systems for Laboratories TS 400-1-1	Special Contractor Session TS 500-1-1
12:30 pm – 2:00 pm	LUNCH • AWARDS • PRIZES — Grand Ballroom (Springwells/Dearborn)					
2:15 pm – 5:30 pm	15 minute break	Sanitary Waste System Design TS 100-1-2	BIM 2nd Session TS 200-1-2	Solar Domestic Water Systems TS 300-1-2	Design and Layout of Residential Fire Protection Systems TS 400-1-2	International Water Efficiency TS 500-1-2
5:40 pm – 7:00 pm	WINE AND CHEESE RECEPTION — Grand Ballroom Foyer					
7:00 pm – ...	ON OWN FOR DINNER					
Saturday, October 24, 2009 *15-minute breaks occur halfway through all sessions.						
7:30 am – 4:00 pm	ASPE Office/PCA Office	ASPE/PCA REGISTRATION — Lobby Level — Registration Counter				
8:00 am – 6:15 pm	ASPE/PCA Lounge	ASPE/PCA PAVILION AND BOOKSTORE				
7:30 am – 8:45 am	CONTINENTAL BREAKFAST					
9:00 am – 12:15 pm	15 minute break	Sizing a Domestic Water Booster System TS 100-2-1	BIM 3rd Session TS 200-2-1	Making Sewage "Sanitary" — the Water Crisis and How you can be part of the Solution TS 300-2-1	Design and Layout of Townhouse Fire Protection Systems TS 400-2-1	Efficient Project Management for Engineers and Contractors TS 500-2-1
12:30 pm – 2:00 pm	LUNCH • AWARDS • PRIZES — Grand Ballroom (Springwells/Dearborn)					
2:15 pm – 5:30 pm	15 minute break	Storm Drainage System Design TS 100-2-2	BIM 4th Session TS 200-2-2	Workshop and Training: LEED 2009 Point Rating System TS 300-2-2	Adhesive Joining Systems from Laboratory to Installation TS 400-2-2	Gaining Understanding Between Contractors & Engineers TS 500-2-2
5:30 pm – ...	ON OWN FOR DINNER					
Sunday, October 25, 2009 *15-minute breaks occur halfway through all sessions.						
7:30 am – 4:00 pm	ASPE Office/PCA Office	ASPE/PCA REGISTRATION — Lobby Level — Registration Counter				
8:00 am – 6:15 pm	ASPE/PCA Lounge	ASPE/PCA PAVILION AND BOOKSTORE				
7:30 am – 8:45 am	CONTINENTAL BREAKFAST					
9:00 am – 12:15 pm	15 minute break	Propane and Natural Gas Systems TS 100-3-1	BIM 5th Session TS 200-3-1	LEED for Contractors & Engineers TS 300-3-1	Managing for Success — How to achieve success during this difficult time TS 400-3-1	Understanding Construction Methods and Contract Document Compliance TS 500-3-1
12:30 pm – ...	ATTENDEES RETURN HOME					

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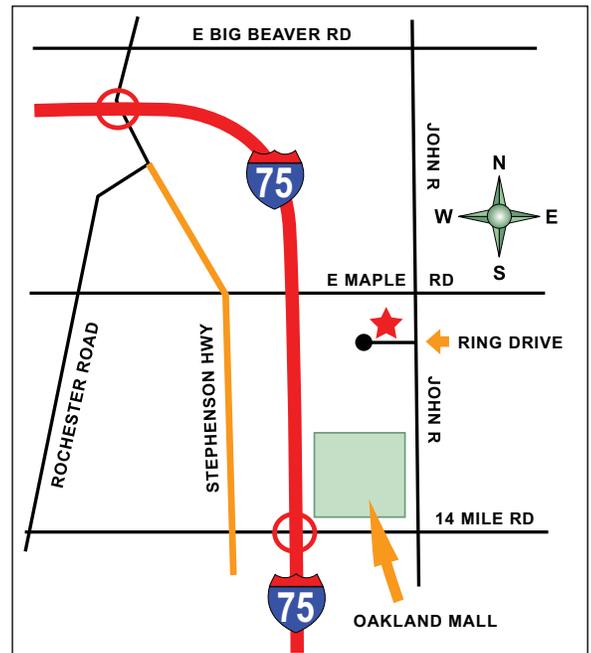
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Map to the Plumbing Industry Training Center 1911 Ring Drive - Troy, MI West of and off John R, north of 14 Mile Rd.



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.