

ASPE NEWS

American Society of Plumbing Engineers

Eastern Michigan Chapter

www.aspe.org/Eastern_Michigan

Serving our membership since 1975

Vol. 12, Issue 2

Plumbing Design Classes

Date: Tuesday, October 21, 2008
Where: Plumbing Training Center
1911 Ring Dr, Troy, MI
SEE map on back page

ASPE HANDBOOK CLASSES
3:30 - 5:30 PM

Basic: Sanitary Drain & Waste Systems & Code
Adv: Water Treatment

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: Geothermal Piping Systems & Methods
Speaker: Alan L. Fordeck
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

Ed Hawley, VP Tech:
(248) 656-8253 phone
ehawley2382@wideopenwest.com

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PRESIDENT’S REPORT

John R. Nussbaum, IPP, FASSE



Society News - By now, all of you have seen and read the Society President’s newsletter regarding proposed Bylaw #5 designed to keep the past dues rebate money owed and promised to be returned to the chapters. This has now become a major issue with many of the chapters, including our chapter, who is owed a great deal of money by the Society. Because you are sending delegates to the convention that may have to vote on this bylaw change, I feel compelled to bring the chapter’s

board of directors’ thoughts on this issue to you, the membership, at our October 21, 2008 meeting. I will be asking you to voice your concerns regarding the issue and, after discussion, vote on how you want your delegates to vote this issue at the convention should it come up there. I say ‘should it come up there’ because, like other chapter presidents, I feel proposed Bylaw #5 should be withdrawn by the proponent prior to the convention for the good of the Society.

Werner Stebner’s presentation dealing with Seismic Plumbing and Mechanical Systems was well received by those of us present for the presentation. He covered where and how liability would fall in case of a disaster causing failure of these systems. He pointed out the need for you to know the material standards and building codes, where and when a structure is deemed necessary to be seismic protected. He was *very explicit* in how contractors should protect themselves when getting involved in a seismic job. K. L. McCoy will be providing me with the hand outs promised those in attendance and they will be distributed accordingly. For those of you who missed this meeting, all I can say is you missed one meeting that really touched on the importance of understanding the pitfalls you could fall into on those out of the ordinary jobs you may encounter.

October 21, 2008 Geothermal Piping Systems & Methods, with all the talk of energy cost going up and codes moving toward green building and consumers starting to understand what’s happening and asking questions. The design professional, manufacturer and contractor must ready themselves for those piping material, anti freeze solutions and equipment used in these systems. This promises to be another fine program and again I hope to see you all there.

The Advance class at 3:30-5:30 will be Water Treatment.
The Basic class at 3:30-5:30 will be Sanitary Drain & Waste Systems.

Your president,
John Nussbaum

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October Tech Program

Geothermal Piping Systems & Methods



Alan Fordeck

Alan L. Fordeck received his Bachelor's degree in management from Purdue University in 1974. In the spring of 2001, Al completed his Master's in Business Administration degree from the Indiana Institute of Technology. Alan's work experience consists of five years in partnership with an electrical / mechanical contracting firm. This was followed by seventeen years operating his contracting firm. His

last 11 years have been spent at WaterFurnace International; first in the Technical Services department. Following the position of Commercial Sales representative; Al became their Commercial Products Manager, Engineering Manager in charge of testing labs and prototype development then Senior Product Engineer. He presently holds the position of External Quality Manager.

Program: This will be an introduction into the concept of geothermal and how it works. It will include information on the three types of loop systems (vertical, horizontal and pond). Piping materials, anti-freeze solutions and equipment will be covered. He will also discuss water-to-water equipment and its application to radiant heat.

DON'T MISS OUR
October 21st ASPE EMC Meeting

GEO THERMAL
RENEWABLE
ENERGY
TECHNOLOGY

The future for the direct use of geothermal resources is becoming more attractive as prices continue to drop. It is predicted that geothermal heating will continue to become a more popular option for homes and businesses seeking long term cost and energy savings.

VP TECHNICAL REPORT

Edwin Hawley, CIPE/CPD



Report on September 9, 2008: The ASPE Program subject was "Seismic Plumbing Systems" with guest speaker, Werner Stebner, PE, of Amber Booth Company (BMC Group Co.) We thank Mr. Stebner, *very much*, for an excellent program.

Mr. Stebner's approach to speaking on the Seismic Plumbing System, was VERY refreshing. Here's a speaker that did not use

a PowerPoint presentation, nor did he have to read from a set of notes or any handouts. His teaching method was a first at the Training Center. It meant that you had to pay strict attention to the speaker covering the subject, or it was passing you by. You could very easily identify and appreciate the experience, knowledge, the seriousness, the involvement, delivery, requirements, study, research, and all the expressions, that was necessary to make the points of the plumbing systems and the HVAC equipment presented. One of the most critical items was the fact of how we were being HELD ACCOUNTABLE in the installation and design. This raised some serious points to every design job that we are going to be involved with.

Any major disaster, natural or manmade, makes us subject to the scrutiny of Governments, Federal Emergency Management Agency (FEMA) and the National Earthquake Hazards Reduction Program (NEHRP) Codes. We will pay dearly for any omissions in our projects, requiring complete vigilance and detailed attention to all the work we do. This process of the code development has a history of about 30 years so it now will be fully implemented in our businesses. Over those years, the Building Seismic Safety Council (BSSC), and every association of products, scientific, architectural, engineering, and manufacturers have been attending and making very good contributions, so as to have concessions with all parties having a equal voice, to provide in its fundamental purpose is to enhance public safety by providing a national forum that fosters improved seismic safety provisions for the use of the building community in the planning, design, construction, regulations and utilization of buildings.

Governmental codes include all the requirements and calculations needed to cover the piping installations. The first thing required is identifying the SEISMIC design category, by group and type of structure, following the set of data requirements that are provided in the code called the FEMA 450 publication and the handbooks #412, #413 and #414. The equipment manufacturers also follow the Tubular Exchanger Manufacturing Association (TEMA) worldwide codes.

The greatest requirement is the need for COLLABORATION from all the groups of disciplines. Architectural, Structural, Civil, Mechanical, Electrical, Interior Design, Fire protection and any other group members that are involved in the project. The successful project is WHEN all the trades people BEGIN talking and working with each other at the beginning, during and after the construction has been completed.

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Did you know...

If you visit the **ASPE Eastern Michigan Chapter** web site you can print a flyer/registration form on each monthly program or a brochure on the entire 2008-2009 Technical Program.

Please post our flyers on your office bulletin board or email the flyer link to fellow designers and engineers.

ASPE Eastern Michigan Chapter presents... **Plumbing Design & Handbook Classes** 2008-2009

DATE: Tuesday, November 18, 2008
DESIGN CLASS: **Theory of Radiant Piping & Plumbing Design**
This presentation builds a foundation as to why 'radiant' and links the engineering chain of events of today's heating design with people and events of the past.
TIME: 6:00 - 8:30 pm
SPEAKER: Brad Rutherford
WHERE: Plumbing Industry Training Center
1911 Ring Drive - Troy, MI 48083
Visit www.aspe.org/Eastern_Michigan/pdf/plumbingschool.pdf for a map

Brad Rutherford is the Hydronic Heating Manager for Ferguson Enterprises Inc. (Detroit Region) with 27 years in the plumbing and heating supply industry. He is an RPA Certified Installer and Designer, Uponor Certified Designer, and licensed by the State of Michigan as a Boiler Installer and a Builder. His hobby is studying the history of hydronic heating.

CLASSES
Classes are open to anyone interested. There is no charge to attend classes. Registration is required. SEE reverse side for registration information.

DINNER
A hot catered dinner is available at a cost of \$15 per person to non ASPE, ASSE and MBPA members. Cash (at the door) or checks made payable to ASPE-EMC are accepted. We ask that you please notify us when you register for class if you plan to eat dinner.

ASPE Plumbing Engineering Design Handbook Reviews
Basic and Advanced classes are held each month, unless otherwise stated, from 3:30 - 5:30 pm. See our website for a full class schedule.

PLEASE NOTE
Topics, times and places are subject to change, depending on the availability of the presenter or unpredictable circumstances. Check our web site for the most up-to-date information.

ASPE Plumbing Design & Handbook Classes 2008-2009

Anyone involved in the Plumbing Industry would benefit from attending these very informative classes. Knowledgeable and industry-wise presenters teach and interact with attendees in a relaxed and friendly atmosphere. Classes take place at one of the premier training centers in southeastern Michigan, the Metropolitan Detroit Plumbing Industry Training Center in Troy, Michigan. Jointly sponsored by the American Society of Sanitary Engineering - Michigan Chapter (ASSE) and the Eastern Michigan Chapter of the American Society of Plumbing Engineers (ASPE), the programs are designed to give a well rounded learning experience. Classes are open to anyone interested. Dinner cost is \$15 per person (at the door) to non ASPE and ASSE members. Checks made payable to ASPE-EMC are accepted. ASPE Plumbing Design Handbook Reviews are being conducted simultaneously on a monthly basis by Joseph Hernandez, CIPECPD, for basic classes and Ron George, CIPECPD, for advanced to ASPE-EMC members. Contact ASPE VP Technical Ed Hawley at (248) 656-8253 or e-mail to ehawley2382@wideopenwest.com to confirm your attendance by the Friday prior to class day. Visit our web site at www.aspe.org/Eastern_Michigan (URL is case sensitive) for easy registration and a map to the school. Dinner takes place from 5:30 - 6:00 pm. PLEASE NOTE: Topics, times and places are subject to change, depending on the availability of the presenter or unpredictable circumstances. Check our web site for the most up-to-date information.

Plumbing Industry Training Center
1911 Ring Drive, Troy, MI 48083

PROGRAMS

September 9, 2008 - NOTE: 2nd Tuesday
Handbook Basic: **Site Utility Estimating** - 3:30 - 5:30 PM
Handbook Adv: **Seismic Design for Hospitals** - 3:30 - 5:30 PM
Design Class: **Seismic Plumbing Systems** - 6:00 - 8:30 PM
Presenter: Werner Seibner, PE

Whether an act of God, such as an earthquake or an explosion, the catastrophe is sure to bring on an investigation as to why the piping systems failed and where does the liability lie. Mr. Seibner focuses on model building codes, seismic standards and material specifications for the isolation of vibrations that can cause the failure of non structural components such as HVAC systems and other piping systems. Werner's presentation is enlightening and professional, he provides a 48 page detailed handout used as a reference and answers questions throughout the presentation.

October 21, 2008
Handbook Basic: **Sanitary Drain & Waste Systems & Code** - 3:30 - 5:30 PM
Handbook Adv: **Water Treatment** - 3:30 - 5:30 PM
Design Class: **Geothermal Piping Systems & Methods** - 6:00 - 8:30 PM
Presenter: Alan L. Ferdeck, External Quality Manager, Waterfurnace International, Inc.

This will be an introduction into the concept of geothermal and how it works. It will include information on the three types of loop systems (vertical, horizontal and pond). Piping materials, anti-freeze solutions and equipment will be covered. He will also discuss water-to-water equipment and its application to radiant heat.

November 18, 2008
Handbook Basic: **Storm & Roof Drainage & Code** - 3:30 - 5:30 PM
Handbook Adv: **Corrosion in Piping Systems & Methods** - 6:00 - 8:30 PM
Design Class: **Theory of Radiant Piping & Plumbing Design** - 6:00 - 8:30 PM
Presenter: Brad Rutherford

This presentation builds a foundation as to why 'radiant' and links the engineering chain of events of today's heating design with people and events of the past.

* Certified in Plumbing Design through the American Society of Plumbing Engineers. Visit www.aspe.org for complete details.
American Society of Plumbing Engineers - Eastern Michigan Chapter

There is a cost involved in bringing in **great speakers**. The most important thing you can do to keep timely educational programs coming on the latest and greatest is to **attend the meetings**.

Do you have a suggestion for a technical program? Please pass it along to one of our board members!

VP Technical Report

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The next great program, on OCTOBER 21, 2008, is on GEOTHERMAL PIPING SYSTEMS & METHODS. This is a very important and, currently, the hottest GREEN subject. This is going to be very much in demand across the country, due to the projected high cost of energy. Join the rest of us jumping on the band wagon of the latest knowledge and be ready to gain all the work that will be demanded of us.

Prepared or not...people are calling from all over the metro area signing up for the program. Please register early so WE can save you a space.

Ed, VP Tech

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Who said it?

1. "If all economists were laid end to end, they would not reach a conclusion."
2. "If I were two-faced, would I be wearing this one?"
3. "Not only is there no God, but try finding a plumber on Sunday."
4. "It's not the size of the dog in the fight, it's the size of the fight in the dog."
5. "If you want a friend in Washington, get a dog."

1. George Bernard Shaw (1856-1950), 2. Abraham Lincoln (1809-1865), 3. Woody Allen (1935-), 4. Mark Twain (1835-1910), 5. Harry S. Truman (1884-1972)

ASPE NEWS

American Society of Plumbing Engineers-Eastern Michigan Chapter

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

Internet Address
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President

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

Treasurer

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

Student Liaison to Lawrence Tech

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

Vice-President Technical

Edwin L. Hawley, CPD
ELH Group, Inc.
2124 Winchester Rd.
Rochester Hills, MI 48307
(248) 656-8253
ehawley2382@wideopenwest.com

Administrative Secretary

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

Chapter Affiliate

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

Vice-President Legislative

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

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

Imm. Past President

Esteban Cabello, PE, CIPE
JRED Engineering, Inc.
5608 N. Charlesworth St.
Dearborn Hts., MI 48127
(313) 565-5580 Fax: (313) 565-9818
jredengineering@comcast.net

Vice-President Membership

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

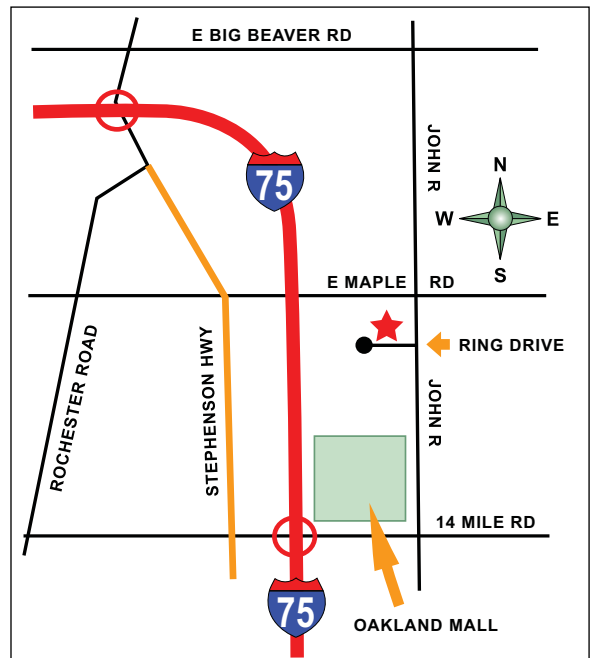
Director

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



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