



ASPE NEWS

American Society of Plumbing Engineers

Eastern Michigan Chapter

http://aspe.org/Eastern_Michigan

Serving our membership since 1975

Vol. 14, Issue 4

Plumbing Design Classes

Date: Tuesday, December 14, 2010
Where: Plumbing Industry Training Center
SEE map on back page

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

Basic: Medical Gases - Components & Requirements
Vendor: Zoning
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: LEED 3.0 for Existing Buildings
Panel: Alan Deal, PE
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:

Edwin Hawley, VP Tech:
edwinhawley@att.net
 (248) 656-8253

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PRESIDENT'S REPORT

John R. Nussbaum, IPP, FASSE



As the holidays are rapidly approaching Christmas and New Years, and Thanksgiving has just ended, I can't help thinking how fast this year has gone by. Again, our chapter has had an outstanding year because of our continuing educational programs and talented speakers. Dave Jones of the John Green Company went to the ASPE Convention and Engineered Plumbing Exposition standing in for me. He enlightened our members at the November 23rd meeting, giving a briefing on the highlights of the

convention including receiving the Society's Directors Award for the Eastern Michigan Chapter of the American Society of Plumbing Engineers. He was quick to point out that only two of these awards were given out this year. Dave presented the award to me at our meeting and I hope to be able to have it displayed at the Training Center in the near future. Dave also gave a report at the board of directors meeting. As I sat down with my family at our Thanksgiving dinner table, I had a lot to be thankful for, grateful to have been lucky enough to serve all of you in the plumbing and mechanical industry and especially as your chapter president for the past six plus years. I am grateful and thankful that God has watched over me and my wife, Sylvia, through our hip replacement operations and quick recoveries. So, again, this was a Thanksgiving to remember for my family and I. A special thanks to all of you who stood by me during this period. My thanks to Dann Holmes, whom I recently appointed to the board of directors, who worked

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Ring in the Future of ASPE

Report by Dave Jones, CPD, LEED AP BD+C

The 2010 ASPE Convention and Engineered Plumbing Exposition (EPE) were held in Philadelphia from October 30 through November 3 at the Pennsylvania Convention Center. It proved to be another successful training and networking opportunity for the approximately 4,900 people able to walk the convention floor and the 678 people who participated in technical education sessions. ASPE partnered with the International Code Council (ICC) and the World Toilet Organization (WTO) to hold the 2010 World Toilet Summit in conjunction with the ASPE Convention. Between ASPE, ICC, and WTO technical education sessions, attendees were able to choose

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Get the following information on the **ASPE Eastern Michigan Chapter** home page:

- ▶ Code Books Order Form
- ▶ 2009 MI Plumbing Code Errata Sheet
- ▶ ASSE Scald Hazards White Paper
- ▶ ASSE 2011 Annual Meeting Flyer
- ▶ John E. Matthews Raffle Tickets Info
- ▶ ASPE Chapter Sponsors Product Lines
- ▶ Chapter Monthly Newsletter
- ▶ Monthly Design Class Flyer
- ▶ 2010-2011 Design Class Brochure
- ▶ Register for the Monthly Design Class
- ▶ 2011 Healthcare Seminar Flyer



H₂O fanatic #139

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 3.0 For Existing Buildings



Alan Deal

Alan Deal, PE, is president of Performance Engineering Group, Inc. Performance Engineering Group has been actively involved in designing and marketing domestic hot water systems, hydronic radiant heating systems since 1964. Performance Engineering Group specializes in providing complete, engineered packages to the installation contractor. Alan is very active in local professional associations including, American

Society of Plumbing Engineers - Eastern Michigan Chapter, the Detroit chapter of the American Society of Heating Refrigeration and Air Conditioning Engineers (past president) and the Eastern Michigan Radiant Panel Association (past president).

Program: As Michigan's new construction industry continues to languish, facility renovations are a bright spot that continues to grow. Businesses, institutions and multi-family facilities are all working to reduce their energy costs along with the goals of being socially and environmentally responsible. The most recent LEED building standard, LEED 3.0 was introduced in the fall of 2009. How does LEED design apply to existing buildings? What happens to LEED buildings after certification? These topics will be discussed along with the specific metrics that must be reached for mechanical systems, plumbing and storm water systems in order to achieve or maintain a LEED certified facility.

December Vendor Program

Zoning



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



On Tuesday evening, November 23, 2010, I had the pleasure of attending an outstanding Design Class program, titled "NO-LEAD Mandates", at the Plumbing Industry Training Center in Troy, Michigan – a very modern and capacious facility. Before a program begins, an excellent dinner is always served to all in attendance. It's like

being at home, where after dinner, you sit in a comfortable chair ready to watch a favorite TV program. So let's begin...

Legislative NO-Lead Mandates and the Impact on Our Plumbing Industry, presented by the Eastern Michigan Chapter of ASPE, was moderated by Dann Holmes, District Manager for Viega. Dann introduced our panel of plumbing experts, starting with Jeremy Brown, Codes and Regulatory Manager of NSF International; Craig Selover, Director of Plumbing Product Technology with Masco R&D (is involved in the process of helping the US Senators write No-Lead legislation); Michael Gillespie, ExCom & Market Innovation with Viega; Barry Pines, CPD, Master Plumber and Senior Estimator for C&R Plumbing & Heating; and Wayne Robinson, Chief Plumbing Inspector for the City of Detroit. Thank you, gentlemen, for being on the panel.

This presentation focused on how the third party testing is developed and how our plumbing industry will comply with legislative "No-Lead" plumbing mandates.

NSF International World Headquarters in Ann Arbor, Michigan, a public health and safety company, is a not-for-profit, non-governmental agency, standards developer, third-party testing facility, auditing, certification agency, very active in health effects of water and food related products. NSF, established in 1944, is in the University of Michigan Campus, with 26 global offices/ laboratories around the world,

The Safe Water Drinking Act, Vermont and Maryland legislation, NSF-61 Annex G, Federal legislation NSF 372, SDWA

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PRESIDENT'S Report

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hard at preparing and moderating the panel discussion "No-Lead" Mandates and to the participating panelists. This went over so well that we will be doing this more often at future meetings. The questions, during and after, made for interesting dialog exchanges between the panel and audience. We are now promoting "Working in Today's Healthcare Settings and How to Protect Yourself and Patients". More information on this ASPE Eastern Michigan Chapter 6 specialty credit hours seminar can be seen on our website, including the dates and times along with cost and registration information. A reminder—the ASSE/ ASPE Awards night dinner will take place Saturday night on January 29th at the Shriners Conference Center in Southfield. We are expecting your recommendations for deserving candidates at this time. That being said, I wish you and your families all a Merry Christmas, Happy Hanukkah and Happy New Year.

*Your president,
John Nussbaum*

Ring in the Future of ASPE

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from over 50 different training sessions. The sessions I attended were exceptional, highlighted by a paper given by Salimol Thomas, PhD on Roof Drain Design Considerations. She has been hired by the ASPE Research Foundation to investigate root causes of roof failures. The results she presented were still preliminary as testing is ongoing. She fielded questions from attendees and also took note of a number of suggestions as further research is being done.

The delegate meetings, held prior to the convention, saw a number of changes both in by-laws and members of the Board of Directors. As members of Region 2, we have a new Region Director in Chris Graham while our past Director, Mitch Clemente, is the new VP Education.

Eastern Michigan was represented by two chapter delegates this year, significantly less than in previous years, with a handful of other members in attendance. While the number of chapter attendees was lower than in the past, we were well represented in the award category. The Chapter received one of only two Director's Awards, presented for the monthly educational programs. All of the Chapter members and I would like to congratulate John Nussbaum and all of the Board members for their commitment to keep these programs going. I'm sure it's satisfying for them to see their efforts recognized on a national level. Look for more highlights of the 2010 ASPE Convention in the December 2010 issue of Plumbing Systems & Design.

ASSE Michigan Chapter

John E. Matthews Scholarship Fund Raffle

PRIZES

40 INCH TOSHIBA LCD TV

Apple iPod Touch 8GB

Apple iPod Nano 8GB

\$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 29, 2011
at the ASSE Annual Awards Banquet,
Shriners Conference Center in Southfield, MI.



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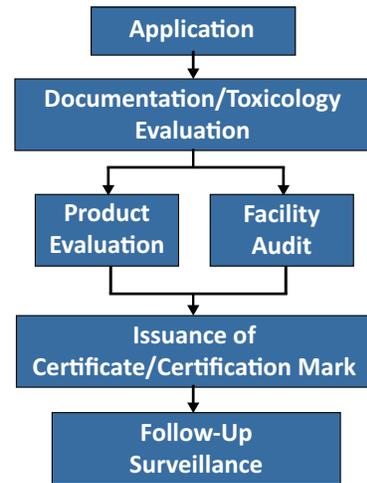
VP Technical Report

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NSF/ANSI Standards Process



Certification Process



Enforcement, NSF Markings and Future Markings, were all touched upon and played a large role in this overall discussion.

Vermont Legislative Mandate Act 193 prohibits the sale of plumbing fixtures whose wetted surfaces contain more than a weighted average of 0.25 percent lead.

Maryland Legislative Mandate HB372, approved by the Governor – May 14th, 2010. Maryland regulators will be working on more specific implementation language with likely certification requirements in 2010. This Act shall take effect January 1, 2011.

California Legislative Mandate AB 1953, the requirement is that the lead content of the wetted surfaces be not more than the 25% on a weighted average basis.

Federal Legislation – The House & Senators Boxer and Inhofe, proposed the addition to;

Section 1. Short Title.

This Act may be cited as the “Assistance, Quality, and Affordability (AQUA) Act 2010”.

Section 15. Reducing lead in Drinking Water.

This section amends existing provisions in the Safe Drinking Water Act related to the lead fixtures, to change the legal definition of “lead-free” from 8% lead to 0.25% lead in wetted surfaces. This section will bring the federal definition in line with stricter state definitions, provide greater notice to consumers purchasing faucets and fixtures, and reduce exposure to lead through drinking water. This has passed the House. The Senator has introduced this language (S3874) to the Senate, it may be passed during the lame-duck session. There is a 36 month after enactment implementation date.

NSF Consensus Standards:

Regulators= EPA, FDA, HC, State and Local Agencies

Users= Consumers, Government, Specifiers, Consultants

Manufacturer= Balance in Representation

All controlled by NSF Standards

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Safe Drinking Water Act and Enforcement

- ▼ US EPA creates maximum allowable levels of specified contaminants in drinking water.
 - * Heavy Metals
 - * Organic compounds
 - * Radionuclides
- ▼ States have the primacy in applying and enforcing regulatory levels, so long as they are as stringent, or more than the EPA levels.
- ▼ Enforcement is the responsibility of water utilities who must monitor water quality at the tap at different points along the distribution system.
- ▼ In 1986, as part of the EPA Lead & Copper Rule (LCR) a specification was added to define “lead free” as 8% maximum lead (Pb) content. However through the water utilities, there was no enforcement mechanism.
- ▼ In the early 1990s through 1995, NSF-61 and its various sections were created to limit lead leachate and other contaminants (many not regulated under the US EPA primary or secondary drinking water regulations).
- ▼ Product standards were changed to include NSF-61 requirements where applicable.

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VP Technical Report

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Plumbing Inspection Team Concept

- ▼ In order for this new lead law to work it cannot depend on inspections alone.
- ▼ Inspections are one of the last “links” in the quality of a building project.
- ▼ Our industry – Manufacturers, Architects, Engineers, Plumbing trade Organizations, Plumbing Contractors, Inspection Services and others, must work together to protect the health of the nation – a Team Concept.
- ▼ Plumbing Inspections are authorized by law to conduct inspections to determine the compliances with the provisions of the plumbing code (107.1).
- ▼ Each length of pipe and pipe fitting, trap, fixture, material and device utilized in a plumbing system shall bear the identification of the manufacturer. (303.1).
- ▼ All plumbing products and materials shall comply with the referenced standards, specifications and performance criteria of the code. Plumbing products and materials shall either be tested by an approved third-party agency or certified by an approved third-party certification agency. (303.4) See graphics on page 5.
- ▼ **CURRENT:** Pipe and pipe fittings, including valves and faucets, utilize in the water supply system shall have a maximum of 8% lead (605.2).
 - * **Soldered / flux joints already are required to meet lead free 0.2% lead. (605.14.3).**
- ▼ **CURRENT:** Water Service pipe, water distribution, water pipe fittings, valves, must comply with NSF 61, (605.3), (605.4), (605.5), (605.7).

Enforcements of the above information all will have to meet the proposed “Lead-Free” Federal law.

- ▼ **PROPOSED:** The new law will be a maximum of 0.2 percent for solder and flux. Not more than 0.25% for the wetted surfaces of pipes and pipe and plumbing fittings or fixtures.

Plumbing Inspection Notifications:

They all must provide the following information.

- * On the plumbing permit application in BOLD about the new lead law.
- * A website about the new lead law.
- * To home improvement stores about the lead law.
- * To plumbing wholesale houses about the new lead law.

Plumbing Inspection requirement:

- * Check plumbing products at the site for **NSF/ANSI 61, NSF/ANSI 61-G, NSF/ANSI 372 Approvals.**
- * Check plumbing products packaged in bags, boxes, etc, for the above approvals.
- * Issue violation to the permit holder for non-compliance with the lead free requirements.

Plumbing Inspection Exempt Items – Sample only

- * Fire Hydrants
- * Shower Valves
- * Decorative Fountains
- * Toilets Urinals, Bidets and their fittings
- * Sanitary Sewer Drains
- * Service Sinks
- * Irrigation Sprinklers
- * Tub Fillers
- * Other uses where the water is not anticipated to be used for human consumption.

ICC (ICC-ES) Is the United States leader in evaluating building products for compliance with code. A non-profit, limited liability company, ICC-ES does technical evaluations of building products, components, methods, and materials. The evaluation process culminates with the issuance of reports on code compliance, which are made available free of charge to code officials, contractors, specifiers, architects, engineers, and anyone else with an interest in the building industry and construction.

IAPMO, International association of plumbing and mechanical officials, The 2007 California Mechanical Code. Based on the ANSI accredited American National Standard 2006 Uniform Mechanical Code, have been assembled into a convenient, single publication with hundreds of tables and diagrams. Codes of practice attempt to minimize risk by specifying technical standards of design, materials, workmanship and maintenance for plumbing systems.

Useful Websites

Additional Code information is available at the following websites.

www.nsf.org

NSF International (formally known as National Sanitation Foundation).

www.astm.org

ASTM International (formally known as American Society for Testing & Materials).

www.iapmo.org

International Association of Plumbing and Mechanical Officials.

www.icc-es.org

International Code Council, Evaluation Services.

NSF/ANSI Standard 61, Annex G was developed specifically to meet the requirement of California AB 1953.

Looking to develop a standard which could be used not just by California but by any state or the US as a standard means was necessary and it was logical that the NSF Standard 61 Joint Committee undertake such a development.

All jurisdictions requiring compliance with the lead content requirement might also mandate compliance with NSF/ANSI 61. Placement in a separate Standard allows those jurisdictions to cite compliance with NSF 372 or NSF/ANSI 61 separately.

The panel successfully executed its goals of having discussions that were open and **very lively** from the members in attendance. The expert panel did an excellent job in educating and preparing

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VP Technical Report

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the attendee for the future of our Plumbing Industry. Thank you, very much, gentleman. It made a very enjoyable evening for all. Please visit all your vendors, for they have the latest and greatest information on the products they represent. **A big thanks goes to our Manufacturers' Reps** (see photos on page 4) who had tables at the November meeting:

Tom Zimmerman - Burke Agency

Will Parker - Nibco

Dann Holmes - Viega

REMEMBER - Please call 248-656-8253 to make your reservations or you can e-mail me at edwinhawley@att.net by Friday, December 10 and before 5:00 pm.

*Ed Hawley, CPD
VP Tech*

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CONSIDER VOLUNTEERING

The Board's primary responsibility is to provide leadership in developing and executing stimulating programs and activities that will aid the membership in the performance of their jobs and advance their technical skills and careers.

Giving of your time and talents as a volunteer or a board member can have a direct and personal impact on causes you care about as well gaining leadership and event planning experience.

It is extremely important in any organization to bring new people on board to be mentored into positions, who will also bring fresh viewpoints and new ideas to the table.

You will have support. We also want to prevent the loss of organizational memory and to tap an abundance of experience and expertise by keeping past board members active.

Volunteering offers a chance for personal growth, to have fun, to share a skill, to have an impact, to be a part of a team and to get to know the people in your field of expertise. Consider volunteering!

Need Code Books?

Code books may be ordered with pre-payment at the prices indicated below for ASPE EMC, ASSE Michigan Chapter and MBPA members:

ICC 2009 Plumbing Commentary	\$ 68
ICC 2009 Mechanical Commentary	\$ 68
ICC 2009 Fuel Gas Code	\$ 52
ICC 2009 Fuel Gas Commentary	\$ 62
2005 NFPA 99C	\$ 42.50
Michigan 2009 Plumbing	\$ 60
Michigan 2009 Mechanical	\$ 60
Michigan 2009 Building	\$ 99
Michigan 2009 Residential	\$ 81
Michigan 2009 Barrier Free Manual . . .	\$ TBA

Contact Cassie at
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to get an order form.

Books may be picked up
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Group of SE Michigan



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November Design Class

We thank Cindy Zatto, with VE Sales, for providing photos of our events and meetings.



Dann Holmes served as moderator for the expert panel.



Will Parker represents NIBCO



Dave Jones, who served as a delegate to the national convention, presented the Society's Directors Award won by the Eastern Michigan Chapter to John Nussbaum.



Tom Zimmerman of the Burke Agency



Dann Holmes, Michigan District Manager for Viega



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ASPE NEWS

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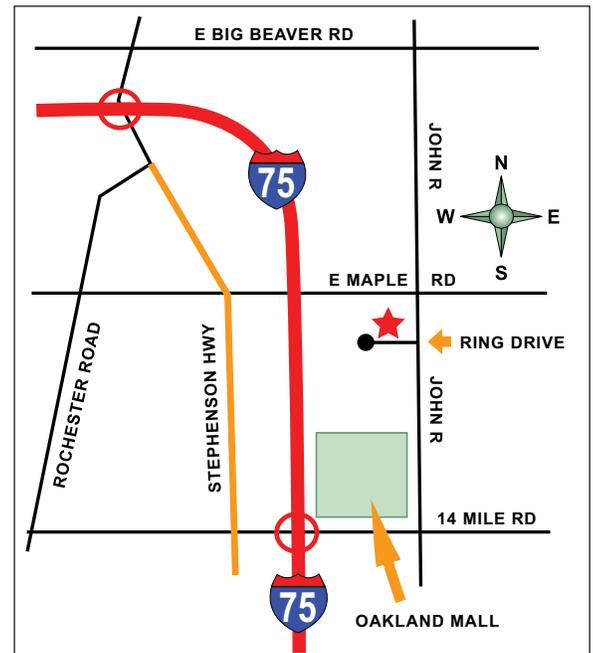
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Map to the Plumbing Industry Training Center 1911 Ring Drive - Troy, MI West of and off John R, north of 14 Mile Rd.



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.