



# ASPE NEWS

American Society of Plumbing Engineers

## Eastern Michigan Chapter

[http://aspe.org/Eastern\\_Michigan](http://aspe.org/Eastern_Michigan)

Serving our membership since 1975

Vol. 14, Issue 6

### Plumbing Design Classes

**Date:** Tuesday, February 15, 2011  
**Where:** Plumbing Industry Training Center  
*SEE map on back page*

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

**Basic:** Oxygen Systems Design & Eng.  
**Vendor:** Navien Tankless Water Heating  
**Speaker:** George Johnston  
*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:** Hot Water on Demand  
**Panel:** Dan McCleary, Gary VanDenberg Jr.,  
 Tony D'Ascenzo, Engineer TBA  
 Moderator: 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 I look to the future of our ASPE and ASSE chapters, I see some light at the end of the tunnel. However, it is somewhat lacking in brightness. Why so? Although we have some very talented people out there, they have yet to come forward and volunteer to serve on the board and run for offices. We need change because of the age of those who will be stepping down in the very near future. Yes, we are in good shape among our manufacturers' representatives on the board. Some are in the process of being mentored to

serve on committees and to take on positions that do not require being a full member—PE or CPD. We need the *design professionals, professional engineers* and *CPDs*. THEY are the classifications needed to run for the positions of President, VP Technical, VP Education and VP Legislative. Since becoming your president, and with the help of some dedicated board members and an active educational team reaching out for programming that you asked for, we have attracted some new members out of the Engineering and Contracting community. We have recognized the need to keep you up on the changes taking place in products being introduced into the systems you design and engineer with the codes and standards that affect those designs and specifications that we in the plumbing and mechanical industry must meet every day we are on the job. Our customers, the consumers of our work, expect it.

Past President Joe Hernandez is expected to become president replacing me for the second half of 2011 and through May of 2013. Joe will be reaching out to the department heads and owners of the A&E firms for their input as to what they need in the way of educational programming and to address the problems you may be encountering either in your company, firm or in the field. He will be looking for interested talented individuals to come forward and become part of our Chapter board of directors and be mentored for leadership positions. This is essential if the chapter is to continue its successes within ASPE and ASSE. The future of these two important organizations, ASPE and ASSE, are in your hands. It is up to each and every member to support their growth and well being. I trust you will answer the call.

A belated thank you goes to Jim Eardley from Target Sales who was a sponsor for the ASSE Annual Banquet and didn't get credited in the program. Our March newsletter will cover the ASSE Awards and banquet.

*Your president,*  
*John Nussbaum*

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**February 26 or March 5, 2011**

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Registration form available on the ASPE EMC web site.

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# February Tech Program

## Hot Water On Demand



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).

**Panel Discussion:** The program will start off with discussion of the many different types of instantaneous water heaters and their applications. Manufacturer's representatives will talk about their particular models and Tony D'Ascenzo will speak from the perspective of a contractor. Questions from the floor will be accepted.

**PANEL:** Alan Deal, PE, Moderator; Dan McClery w/Balfrey & Johnson; Gary VanDenberg Jr. w/ HS BuyVan; Anthony D'Ascenzo/ CEO Guardian Plbg & Htg; Engineer TBA

# February Vendor Program

## Navien Tankless Water Heating



George Johnston

George Johnston is the president of Balfrey & Johnston, Inc. George has been involved with the plumbing community since 1979 as a manufacturer's representative. Major lines that he represents include Zurn, Elkay, Leonard Valve, Navien, and Guardian Safety Equipment. George has a Bachelor of Arts in Marketing from Michigan State University. His duties include both engineer and contractor training sessions and long-

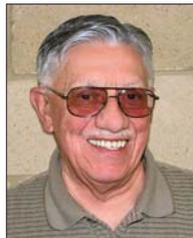
term strategic planning among many others. George has been a member of the Eastern Michigan chapter of ASPE since 1980, and has served as its corresponding secretary since the early 1990's.

**Program:** This vendor program will focus on water saving products. George will discuss specification products that can be used to greatly reduce a building's energy consumption, including low-flow plumbing fixtures and alternatives to traditional water heaters.

**RAFFLE WIN**  
Drawing May 17, 2011  
at the ASPE EMC  
monthly meeting.  
**A Navien NR-240A  
Tankless Water Heater**  
**\$5 per ticket / 3 tickets for \$12 / 7 tickets for \$25**

# VP Technical Report

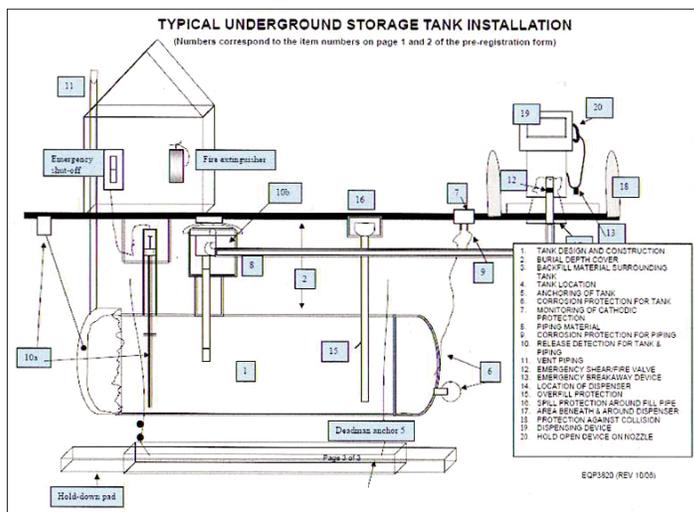
## Edwin L. Hawley, CPD



The design program of January 18th presented by Mr. Casey J. Smith, president and founder of Phoenix Environmental, was delivered with a PowerPoint presentation titled: "Fuel Oil & Gasoline Systems Designs - Codes, UST and AST Rules." This presentation is to familiarize design professionals with regulatory framework

for the storage and dispensing of combustible and flammable liquids. Casey began with an introduction to the history and all the regulations concerning the removal of existing UST's and AST's. The amount of installation planning and the operation of the fuel systems were also covered.

Fuel oil and gasoline systems design can be found within all aspects of industries, like trucks and bus fleets, hospitals - emergency generators and automotive test centers. The primary usage of underground and aboveground storage tanks are for the vehicle fuels. They are categorized by the Product Types, Product Storage, Product Transfer and Product Control and Monitoring.



Here's a summary of EPA FY 2010 data on file: There are 597,333 active UST's (at approximately 250,000 sites) which are regulated by EPA's UST program. Since the 1984 inception of the UST program, 1,748,204 UST's have been closed. Of the 494,997 releases reported since the beginning of the UST program, 401,874 (or 81% percent) have been cleaned up, leaving a backlog of 93,123 remaining to be cleaned up. The 106,725 on site inspections at federally-regulated UST facilities were conducted between October 2009 and September 2010.

The Michigan summary of the EPA FY 2010 data on file: There are 19,273 active UST's in the state of Michigan. Since the 1984 inception of the UST program, 68,555 UST's have been closed. There were 164 confirmed releases this year. Of the 21,979 releases reported since the beginning of the UST program, 12,887 have been cleaned up, and leaving a backlog of 9,092 remaining to be cleaned up.

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## VP Tech's Report

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Until the mid-1980's, most of the underground storage tanks (UST's) were constructed of bare steel. The steel has the potential to corrode over time and allow the UST tank contents to be released into the local environment. The greatest likely hazard from a leaking UST is that the contents can then seep into the surrounding soil and contaminate the ground water. The leaking tanks spurred legislation to protect the American drinking water systems.

The Code of Federal Regulations (40CFR Part 280.12) definition of an Underground Storage Tank or UST means any one or combination of tanks (including underground pipes connected thereto) that are used to contain an accumulation of regulated substances, and the volume of which (including the volume of underground pipes connected thereto) is 10 percent or more beneath the surface of the ground.

This does not include, among other things, any farm or residential tank of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes, tanks used for storing heating oil for consumptive use on the premises, or septic tanks.

In response to the nation wide problem of leaking UST's, Congress passed a series of laws to protect human health and the environment, such as:

- 1984: Subtitle 1 was added to the Resource Conservation and Recovery Act (RCRA) through the Hazardous and Solid Waste Amendment— Created a federal program to regulate UST's containing petroleum and hazardous chemicals to limit corrosion and structural defects and thus minimize future tank leaks.
- Directed EPA to set operating requirements and technical standards for tank design and installation, leak detection, spill and overfill control, corrective action, and tank closure.
- 1986: Subtitle 1 was amended through the Superfund Amendments Reauthorization Act (SARA) that authorized EPA to respond to petroleum spills and leaks.
- Created a Leaking Underground Storage Tank (LUST) Trust Fund.
- The Energy Policy Act of 2005 amended Subtitle 1 of the Solid Waste Disposal Act, added new leak detection and enforcement provisions to the program.
- All regulated UST's be inspected every three years.
- Expanded the use of the LUST Trust Fund.
- Required EPA to develop grant guidelines regarding operator training, inspections, delivery prohibition, secondary containment, financial responsibility, public record, and state compliance reports on government UST's.
- Requires that by August 8, 2012, every facility having one or more UST systems, that is subject to MUSTR must have a Class A O/O and Designated B.
- The American Recovery and Reinvestment Act of 2009 (Recovery Act) provided a one-time supplement appropriation of \$200 Million from the LUST Trust Fund to EPA for cleaning up leaks from the federally regulated UST's.
- The National Fire Protection Association (NFPA) standard is known as NFPA 30 (Flammable and Combustible Liquids Code), a document that was first published in 1957. Many governmental bodies in the U.S. today reference the NFPA standard either by legislation,

statutes or ordinances to give local or regional officials an enforceable code document. The FPA code cites various construction standards written by UL and STI, among other groups, as acceptable construction practices.

- NFPA 70: National Electrical Code

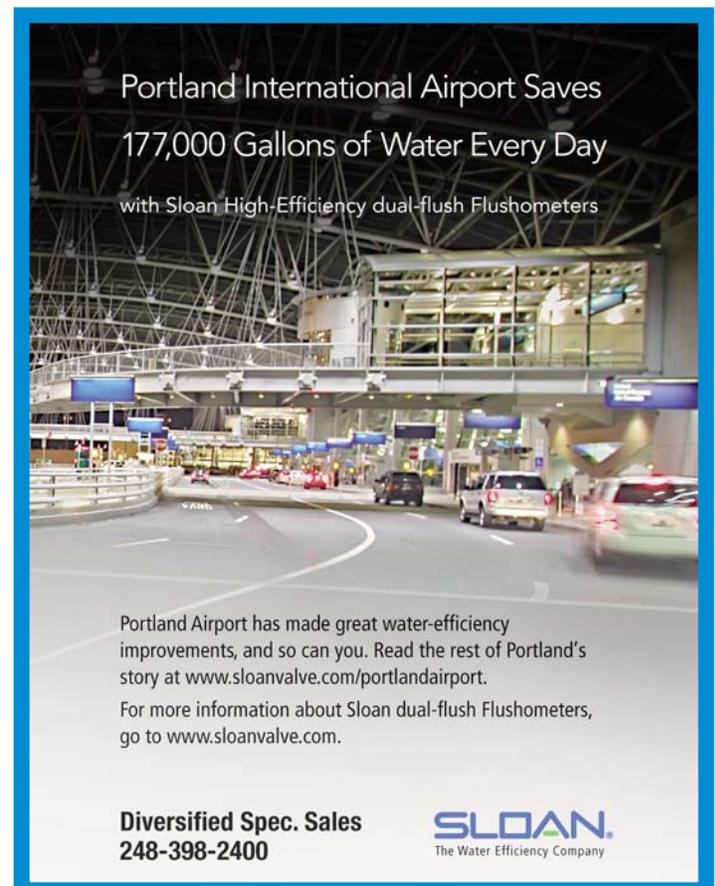
The State of Michigan (MDEQ/DNRE) and Michigan Underground Storage Tank Rules (MUSTR), took effect on July 12, 2008, with the amendments to the (1998/1999).

- The FL/CL latest version went into effect on August 13, 2003.
- Adopt by reference with the state specific additions and amendments NFPA 30 and 30A 2000 Editions, NFPA 31 2001 Edition, and NFPA 37 1998 Edition.
- Govern all tanks with a flash point less than 200 Degrees F.

### UST Removal - Rules and Notices:

- Notice of Intent to Remove or Closed in Place MDEQ EQP3824 form – 30 Days.
- Notice of On-Site Activity – 48 hours.
- Tank Closures: PA 207 Of 1941 Tanks (Hydrogen, CNG, LPG, FL/CL) fill out and send in MDEQ form EQP 3858.
- All other UST's fill out and send in MDEQ form EQP 3821, amended registration, and either a confirmed release or a site assessment showing clean closure.
- For aboveground storage tanks not in use, the following regulations apply:
  - Tanks out of service more than 12 months **are required to be emptied** of liquid, cleaned to a vapor free condition, and safe-

continued on page 5



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# VP Technical Report

continued from page 4

guarded against trespassing. The owner also has the option of removing the tank from the property. Old UST's must be removed from the ground and closed out according to MDEQ/DNRE Standards, this requires extra paper works, for each type of case.

- All tanks removed from the property are required to be disposed of properly. Tank Closed, fill and send in MDEQ form EQP 3858.
- All related tank piping must be emptied and disconnected from the aboveground storage tank system.
- Tanks *do no have to be* removed.

## Professional License and Certificates are now required:

- Qualified Underground Storage Tank Consultant (QC).
- Licensed disposal companies and transport.

## Training for Workers:

- 40 hour – HAZWOPER (Hazardous Waste Operations and Emergency Response).
- MIOSHA / FEDERAL OSHA.

## Regulatory Oversight:

- MDEQ/DNRE – Hazardous Materials Inspectors.
- Local Fire Marshall.

## Reporting Requirements:

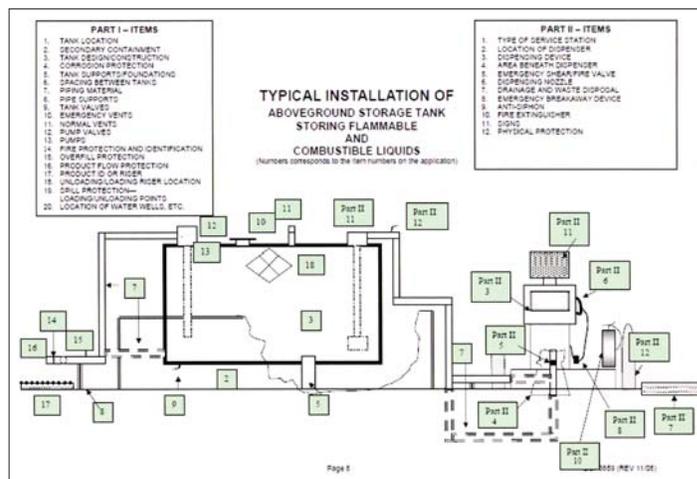
- MDEQ/DNRE – 30 day notice prior to removal.
- MDEQ/DNRE – 48 hour notice of on-site activity.
- MDEQ/DNRE – Suspected or Confirmed Release notification within 24 hours of detection.
- MDEQ/DNRE – Change in Service, registration updates to remove the annual registration fee for UST's and AST's

## Installation Planning:

- There is no cut and dry rule sheets for tank installations. It requires following all Federal, State and Local Rules and Regulation that are to be followed with the necessary forms submittals. Designers need to be familiar with all procedures before the design process begins.
- There are new regulations for the year 2012, that are requiring owners/operators of UST's to be Licensed.
- When designing a fueling system, make sure the owner/operator is aware of all the long term cost is included for all the maintenance and monitoring requirements. It is recommended to conduct a complete life cycle cost analysis to determine the true/real cost. Design permits to the MDEQ/DNRE are required for both UST's and AST's. These required permit forms will greatly help in determining the required components of the systems.
- Most manufacturers require the contractor to be either licensed/certified to install the components
- Determination of use.
- Know all regulatory jurisdiction.
- Get required permits.
- Site considerations, provide design drawings.
- Provide equipment specifications.
- Excavation and backfill.
- Required piping (underground).
- Pass all Inspections, Startup and Monitoring.
- Follow the Typical Fueling Area Requirements.
- Use proper types of dispensers.
- Use Fuel Management Systems like the TS-550 and TS-5000 Fuel management systems modular design provides compliance and fuel

management capacity capability in a single enclosure with a thermal printer.

- Recommend a type of tank, select type of material for the tank, AST or UST installation.
- Know the pros and cons of each type.
- Have soil and ground field test available.
- Fill all the forms for the AST, installation.



## List all the AST Dispensing Requirements:

- Fill out all the forms for the UST type installation.

## The discussions entered into the Operation requirements.

- The types and amounts were covered. Pointing out all of the Financial Responsibility – Allowable Mechanisms. Mentioning all that is in the required coverage's.
- Monitoring requirements, types, how many types and monthly reports.
- The leak detection monitoring, report keeping, record keeping and notification requirements.
- Providing the automatic tank gauges and necessary reporting.
- The necessary daily maintenance for maintaining all the equipment, test and records.
- Recordkeeping must be keep for the life of the tank.
- Report Suspected or confirmed releases within 24 hours.
- A new special tank Metal tag to be used on tank for Compliance Failures.

The new MUSTR Rules for 2012.( takes effect on August 8, 2012) and establishes the titles of Class A and Class B, Operators, duties and responsibilities.

In summary all of the numerous design requirements and extensive compliance requirements were quickly reviewed. This was a program that lasted about one hour and fifteen minutes, fast moving and attention grabbing. Thank you, Mr. Casey J. Smith, for an excellent program. There is much more information not completely covered in this report, that is available upon request.

**REMEMBER** - Please call 248-656-8253 to make your reservations or you can e-mail me at [edwinhawley@att.net](mailto:edwinhawley@att.net) by Friday, February 11 and before 5:00 pm.

*Ed Hawley, CPD  
VP Tech*

# JANUARY 2011 MEETING PHOTOS

We thank our photographer, Cindy Zatto of VE Sales, for providing photos.



John Nussbaum (left) presented a certificate of appreciation to our guest speaker Casey Smith.



John Campbell (right) with Highland Tank



Pam Hartsell (left) of SSOE is our new Hospitality Chairperson

Tabletop sponsor Cindy Zatto (above right) of VE Sales represents Highland Tank.



## CPD Exam Registration Opens January 4

With the Certified in Plumbing Design (CPD) designation after your name, you instantly will be recognized as an expert in the plumbing engineering field. **The 2011 CPD Exam will be offered in electronic format on April 15 or April 16** at 200 testing facilities across the country. Full ASPE members are automatically approved to sit for the exam. For more information contact:

skidd@aspe.org with questions.

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# ASPE NEWS

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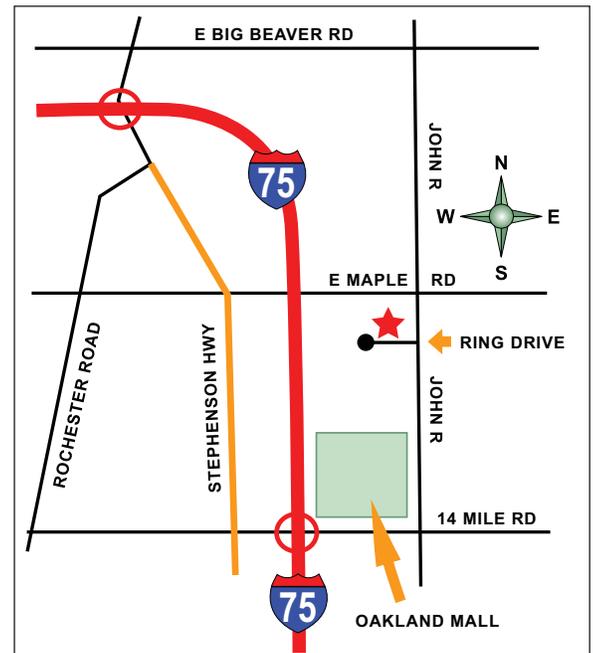
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### Map to the Plumbing Industry Training Center 1911 Ring Drive - Troy, MI West of and off John R, north of 14 Mile Rd.



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.