



ASPE NEWS

American Society of Plumbing Engineers

Eastern Michigan Chapter

http://aspe.org/Eastern_Michigan

Serving our membership since 1975

Vol. 14, Issue 2

Plumbing Design Classes

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

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

Basic: Booster (pressure) DCW Systems
Vendor: New Solar Technologies
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: How to Increase Your Market Share
 in Business by Going Green
 (An Overview)

Speaker: Michael Dolkowski
See page 3 for program & bios

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



THE QUESTION is "Where will the Eastern Michigan Chapter of the American Society of Plumbing Engineers be in the future?" I ask you, the members, because your officers and directors are aging and we are not preparing for the future by mentoring new volunteers to take our places. We need to have some PEs, CPDs, Contractors or their representatives come forward, along with some Manufacturers' representatives, to volunteer to serve on the board.

Those of you who are the principals of the A & E firms and Contractor firms, I urge you to encourage your employees to join, attend the monthly meetings and take an active role by volunteering to be on committees and serve on the board of directors. The Chapter's future is in your hands, if it is to survive.

After three terms—six years as your president, I am planning to step aside and let others take over. There are other members of the board who, like me, are ready to retire from the board at the end of May 2011. My very fine newsletter editor and web manager, Mary Chapman, who has provided you one of the best newsletters in the region and maybe in the society, will also be stepping down after six long dedicated years of service to the chapter.

It may come as a surprise to some of you, but some of us have served on the board over 25 years and are frankly tired and burned out. Though I am stepping down as president, I have notified the board members if they, the new incoming president and the members wished me to run again, I would be willing to stay on as secretary for another term to help during the transition period so the chapter would go through a smooth change of leadership. I would also continue on the program committee as chair person.

I recently, as many of you know, had a hip replacement. It took a lot out of me. However, I am recovering, though it may take six months to a year to get all my strength back. I have worked diligently to provide you with the leadership and programming that you have asked for. Now I ask all of you to come forward, participate and keep this great and wonderful chapter moving forward in a manner of which we can all be proud.

Your president,
John Nussbaum





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Geothermal Division

Our Chapter thanks Dan Montgomery and Strategic Energy Solutions for sponsoring a tabletop at the September meeting.

Did you know...

Individual meeting flyers are available on our web site on the Class Schedule page. Help support the Chapter by printing one out and post it at your place of work or e-mail the PDF file around to your office colleagues.



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October Tech Program

How to Increase Your Market Share in Business by Going Green (An Overview)



Mike Dolkowski

Mike Dolkowski has over 33 years experience in the environmental/sustainability/energy conservation arena. In 1995 he started his first environmental company and is the current CEO of Environmental Recycling in Bowling Green, Ohio. They specialize in the recycling of fluorescent lights, batteries, transformers, computers, and electronics. In 1998, Mike opened his second business, Environmental Asset Recovery in Wauseon, OH, primarily recycling difficult metals and plastics. In 1999, he purchased his third business,

Environmental Recycling Group based in Livonia, MI, specializing in hazardous waste cleanup; property assessments phase 1 and phase 11, and Brownfield property. With requests from his clients for carbon credits and energy audits, he created Carbon Credit Environmental Services (CCES) in October 2007, based in Detroit, MI. CCES provides energy/GHG audits and Life Cycle Analysis of products to companies, while assisting with alternative energy options saving companies money and producing a ROI. Mike has patented an input/output Life Cycle Analysis for GHG, CO2 certification that specializes in LCA (Life Cycle Assessments), GHG Auditing, Carbon Footprint Auditing, Wastewater Treatment, Energy Optimization, Carbon Offsetting, Kyoto Protocol Management, Renewable Energy Design.

Program: This class is targeted to plumbing and mechanical engineers, installers and contractors within all business sectors. Discussion will cover Environmentally Preferred Purchasing (EPP) and why this program is important to the "Certified" Green plumbing and mechanical engineers, installers and contractors. Federal and State legislation on GHG, CO2 emissions, Alternative Energy and Energy Conservation Measures and Equipment. Setting up a "Green Shop". Basic knowledge of solar, geothermal and wind importance for the environment and environmental training. Benefits to "Going Green": Green Bonds program which provides tax exempt funding; business energy tax credit which provides tax credit for purchase or investment in solar or geothermal energy property; renewable energy credits provides tax credit per kilowatt-hours; certification credentials; employee productivity, lower health care and reduced turnover.

October Vendor Program

New Solar Technologies



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



Our September 21st seminar, "Best Practices for Geothermal Vertical Closed-Loop Installations", was presented by Mike Gaber, Chief, Well Construction Unit, Drinking Water & Environmental Health Division of MDNRE (Michigan Department of Natural Resources & Environment, Environmental Resource

Management Division). This vast title can't really begin to tell of the important work involved in the Division's public health responsibilities. The intricate system of record keeping, permits, controls, safety, procedures, required to meet the criterion for public health and safety is enormous.

Mr. Gaber's PowerPoint presentation, "Best Practices", including 88 slides with a printed handout, was delivered with spirit and enthusiasm, vastly loaded with data, examples, providing up-to-date information needed to understand the complexity of each requirement for the Geothermal Program. Mike discussed how proper geothermal closed-loop construction and decommissioning protects public health. With the rise in installations of geothermal closed-loop systems, better standards and regulations are needed to protect aquifers and drinking water wells. In 2009, the Geothermal Heat Pump Stakeholder Forum met five times over a nine month period. MDNRE, along with seven other organizations and agencies, participated in this best practices development process. The participants were urged to submit position papers, suggestions outlining a regulatory plan, and to comment on various drafts prepared by MDNRE staff. Data was shared, information by various stakeholders was provided for forum review and comments. From the Stakeholders, the interim approach is "BEST PRACTICES". The preferred long-term approach is LEGISLATION and to BECOME A LAW.

Another step taken with all the other states was the Geothermal Heating and Cooling Systems State Regulatory Oversight Survey 2009-2010. In the regulation of vertical closed-loops, of the 34 states responding to the survey, 82.4% responded "Yes", 14.7% responded "No", and 2.9% expected regulation within 12 months. Progress is being made in the development of national regulation. Having everyone on the same page is the goal.

The main areas of environmental concerns are:

1. Lack of statewide vertical closed-loop construction standards
2. Closed-loop penetrating a contaminant plume
3. Plugging of abandoned closed-loops
4. Improper antifreeze, cross-connections and leakage
5. Site review by local health department is required.
6. Training and licensing of vertical closed loop installers
7. Installation records are required.

To view "Best Practices for Geothermal Vertical Closed-Loop (GVCL) Installations" see website:
<http://www.michigan.gov/waterwellconstruction>

continued on page 4

VP Tech Report

continued from page 3

Steps for Regulatory Oversight of GVCLs:

- Plan submitted to Local Health Department (LHD).
- LHD review
- Applicant notified of concerns
- Installation proceeds
- Inspection(s)
- Construction record submitted

Closed-Loop Recordkeeping requires a permanent record of the completed installation filed with the owner, LHD and MDNRE. Use MDNRE's form: "Geothermal Closed-Loop Construction Notice". Also, use a Global Positioning System (GPS) to record each loop location. GPS readings need to follow the "Best Practices" procedures. Look up the standard table for L Pipe Loop selections. Evaluation should include review of MDNRE website of known groundwater contamination (Environmental Mapper) at:

<http://www.mcgi.state.mi.us/environmentalmapper>

Guides are illustrated for Borehole Construction, the Grouting of all Vertical Closed-Loops, tables, charts and various illustration were shown. What does grouting do?

- Keeps surface or near-surface contaminants from channeling down the borehole and reaching and aquifer.
- Prevents water from different aquifers from commingling.
- Preserves natural artesian pressure (prevents loss of flowing well pressure).
- Creates a heat transfer path from piping to surrounding earth.
- Grouting types are based on the surrounding and different geological settings, limitations, interactions between piping and grout due to thermal settings. Grout vertical closed-loops by following the "Michigan Water Well Construction and Pump Installation Code" OR The IGSHA Grouting for Verticals Geothermal Heat Pump Systems, Engineering Design and Field Procedures Manual. "Best Practices" has the following listing of grout properties:

- | | |
|-----------------|-----------------------|
| *Permeability | *Thermal Conductivity |
| *NSF 60 Listing | *Slurry Weight |
| *Solids Content | |

Check out University of Nebraska-Lincoln, School of Natural Resources Map and Publication Store for the "Nebraska Grout Task Force".

Qualifications of Installers

- A Certificate of Registration as a Water Well Drilling Contractor in accordance with the procedures in Part 127, Water Supply and Sewer Systems, of the Public Health Code, 1978 PA 368, MCL 333.12701 to 333.12771.
- Accreditation as a geothermal installer of VCL driller by the International Ground Source Heat Pump Association (IGSHA), 374 Cordell South, Oklahoma State University: Stillwater Oklahoma, 74078-8018, or an equivalent accreditation or certification from a nationally recognized organization, as determined by the department. For installation of horizontal headers that person also must possess a valid license under the Forbes Mechanical Contractors Act, 1984 PA 192, MCL 338.97, the

Forbes Mechanical Contractors Act is implemented by the Michigan Department of Energy, Labor & Economic Growth, Bureau of Construction Codes.

Conclusion - I have reached a point in this report to call it a reasonable position to make this the closing. The enormous amount of data and information available is endless...infinite, requiring the writing of a manual or book. **This is a new field of Engineering.** Anyone who did not attend the seminar missed a wealth of knowledge presented by Mike Gaber. Thank you Mr. Gaber for a fantastic program. There are several pages of websites available for further information and review. They can be supplied if requested.

In the State of Michigan, half of the residents rely on groundwater for drinking water and household needs. There over 1.4 million private wells. There are 10,150 non-community public wells and 3,225+ community wells.

REMEMBER - Please call 248-656-8253 to make your reservations or you can e-mail me at edwinhawley@att.net by Friday, October 15 and before 5:00 pm.

*Ed Hawley, CPD
VP Tech*

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Ed's Perspective

By Ed Hawley, CPD



In the search for information regarding geothermal programs, I found a very interesting project called “**Model Geothermal Installation That Supports Habitat for Humanity Development**”, written by *Underground Construction* magazine’s senior editor, Jeff Griffin, in the June 2010 issue.

The project for Hope Crossing, a suburban housing development in a northeast Oklahoma City suburb, is the largest “GREEN” Habitat for Humanity housing development in the United States, and it is believed to be the only Habitat multi-dwelling project in which all homes are served by geothermal heating and cooling systems.

Project Hope Crossing may not look much different than other attractive, moderately-priced homes that are uniquely landscaped. When finished there will be 217 homes in this setting by the year 2013. More than 50% are presently occupied. These homes are in a 59-acre tract, architecturally designed three and four bedroom, two bath homes averaging about 1,250 square feet of living space. The Central Oklahoma Habitat for Humanity (COHFH) is controlling this project, requiring that each home be equipped with a geothermal system using the earth’s relatively constant underground temperature to heat the home in the winter and cool it during hot weather. Rather than conventional forced air heating and cooling systems, every home will have a ground source heat pump with integrated pumping and purging valves connected to a 400 foot deep HDPE pipe loop. Water circulates through the system, drawing heat from the earth in the cold weather and reversing the process in the summer to extract heat from the house and dissipate it in the ground. This has greatly reduced heating and cooling costs, with residents indicating they are paying about half the amount of their past bills for heating and cooling a comparably-sized dwelling. Some report saving of even more.

The Habitat for Humanity programs are well known for efforts of volunteer individual and partner organizations who donate time for labor and materials and products to construct and outfit homes.

ClimateMaster (based in Oklahoma City), the world’s largest ground source heat pump (GSHP) manufacturer, donated Tranquility 20 Series GSHPs for every house in the Hope Crossing project. Drilling ground loops and installation of the GSHP system is done by Comfortworks, an Oklahoma City based ClimateMaster dealer and contractor.



The first step in installing the system is drilling the 400-foot vertical loop. The well is located in a closet inside the garage (*SEE photo on left for how the complete system will look when finished*). A truck mounted vertical drill does the job before the floor slab is poured. This is done before any of the house construction can begin. Each home will have its own 400-foot vertical loop.

The drillers generally place loops on 10 to 12 sites each time they come to the project. The goal is to always have the loop in the ground before the slab is poured. Soil conditions in the area provide good drilling. Most lots contain shale and sandstone with some clay.

When all 217 homes in Hope Crossing are occupied, the estimate is they will collectively save 1,100 metric tons of CO₂ emissions per a year; 22,000 metric tons over 20 years, compared to the standard gas-heated homes of comparable floor space located in the same climate conditions. More data will be available in the next newsletter.

Edwin Louis Hawley, CPD

September Design Class

Thanks to Cindy Zatto, with VE Sales, for providing photos.



Guest speaker Mike Gaber



WANTED

Plumbing and Mechanical Code Development Technical Writer

Great opportunity! The IAPMO Group of Companies located in Ontario, California is seeking a person to join our workforce as a Plumbing and Mechanical Code Development Technical Writer. We offer a fast paced and challenging work environment. The right candidate must be a team player, work well with others to meet deadlines, self-starter and very dependable.

Candidate responsibilities include but are not limited to:

- Serve as technical staff writer for all support documents to the Uniform Plumbing, Mechanical, Solar Energy, and Swimming Pool, Spa and Hot Tub Codes.
- Develop, issue, and edit technical support documents to the Uniform Plumbing, Mechanical, Solar Energy, and Swimming Pool, Spa and Hot Tub Codes.
- Develop illustrations and drawings for all support documents to the Uniform Plumbing, Mechanical, Solar Energy, and Swimming Pool, Spa and Hot Tub Codes.
- Organize, prioritize, assign, disseminate and implement procedures, tasks, projects, goals, objectives, and activities in an efficient and timely manner.
- Provide technical support to committees and industry personnel for all support documents to the Uniform Plumbing, Mechanical, Solar Energy, and Swimming Pool, Spa and Hot Tub Codes; as well as our ancillary documents.
- Develop and execute timelines for the publishing of all support documents to the Uniform Plumbing, Mechanical, Solar Energy, and Swimming Pool, Spa and Hot Tub Codes; as well as our ancillary documents.
- Work closely with various industries and committees to provide industry specific related reports and information as assigned.
- Serve as technical support staff to Code Development Administrators in the development of the Uniform Plumbing, Mechanical, Solar Energy, and Swimming Pool, Spa and Hot Tub Codes.
- Evaluate and recommend new or expanded areas for support documents to the Uniform Plumbing, Mechanical, Solar Energy, and Swimming Pool, Spa and Hot Tub Codes.
- Direct contact with support staff and provide guidance and assistance when needed.
- Other duties as assigned by the Director of Code Development.

Skills:

Candidate must possess extensive experience in technical writing and experience in the plumbing and mechanical code development industry as this relates to all support documents to the Uniform Plumbing Code, Uniform Mechanical Code, Uniform Swimming Pool, Spa and Hot Tub Code and Uniform Solar Energy Code. Individual must have strong leadership skills and the ability to work with committees and support personnel. Candidate must be proficient in technical writing, editing, research and development of all support documents. In addition, proficient in Microsoft Word, Excel, Power Point, Drawing Software Programs, Illustration Programs or CAD.

Education:

Bachelor of Science in mechanical engineering or Certified in Plumbing Design (CPD) with 3 or more years experience in technical writing.

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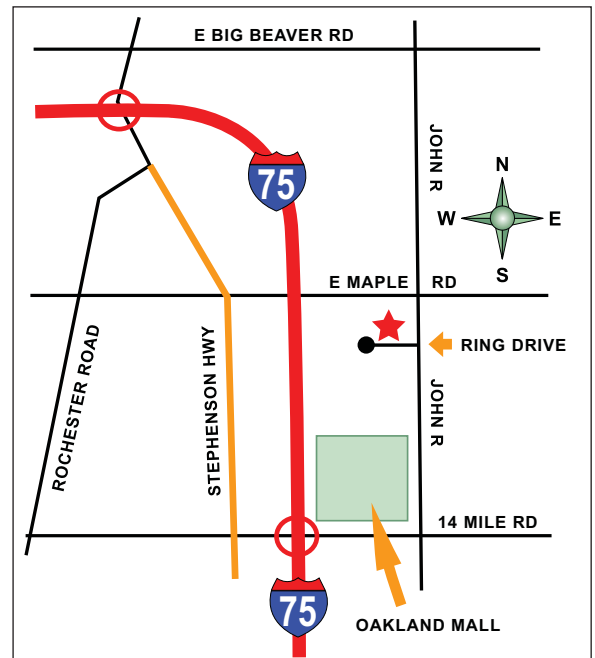
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Map to the Plumbing Industry Training Center 1911 Ring Drive - Troy, MI West of and off John R, north of 14 Mile Rd.



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