

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 to non ASPE and ASSE members with checks made payable to ASPE-EMC. *ASPE Plumbing Design Handbook* reviews are being conducted on a monthly basis by Joseph Hernandez, CPD, for basic design classes. Vendors are also conducting classes to introduce the latest technologies available. Pre-registration is required. Contact ASPE VP Technical Ed Hawley by e-mail at edwinhawley@att.net or phone (248) 656-8253 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 locations 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 21, 2010

Handbook Basic: **Health Care Plumbing Fixtures/ Equipment** — 3:45 - 5:30 PM
Vendor Class: **ISEA/ANSI Z358.1 2009 - Standard Engineering Equipment** with Cindy Zatto — 3:45 - 5:30 PM
Design Class: **Michigan Regulations for Geothermal Closed Loop Systems** — 6:00 - 8:00 PM
Presenter: Mike Gaber, Chief of the Well Construction Unit, Michigan DEQ

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 19, 2010

Handbook Basic: **Booster (Pressure) DCW Systems (System Types)** — 3:45 - 5:30 PM
Vendor Class: **New Solar Technologies** w/ Jim Eardley of Target Sales — 3:45 - 5:30 PM
Design Class: **How to Increase Your Market Share in Business By Going Green (An Overview)** — 6:00 - 8:00 PM
Presenter: Michael Dolkowski, Founder and CEO of Carbon Credit Environmental Services

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.

November 23, 2010

Handbook Basic: **Site Utilities for Health Care Facilities: Storm, Sanitary, Gas & Water** — 3:45 - 5:30 PM
Vendor Class: **Air Elimination** w/ Jim Eardley of Target Sales — 3:45 - 5:30 PM
Design Class: **Impact on our Plumbing Industry – By Legislative “No-Lead” Mandates** — 6:00 - 8:00 PM
Panel Discussion: Jeremy Brown of NSF International, Michael Gillespie of Viega NA, Barry Pines, CPD and Master Plumber, Wayne Robinson, Chief Plumbing Inspector w/ City of Detroit; Dann Holmes of Viega will act as moderator.

The panel will discuss current and upcoming code and standard changes in our plumbing industry. Topics will include new NSF testing for “yellow-brass” which takes effect January 1, 2011 and the “No-Lead” NSF-61 Annex G changes to all potable water systems that are scheduled for July 1, 2012. *continued on page 2*

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

November 23, 2010 *continued*

How do these changes affect NSF? How does NSF write testing procedures that are legislatively mandated by government bodies such as CA & VT? How does a manufacturer change their products and the materials they use to meet these changes? What are the costs? How does a plumbing contractor bid jobs knowing these changes are in place? How much will material costs affect their bottom line? How will the AHJ (Inspectors) enforce these changes? Will they truly understand the changes in brass and bronze alloys and what to look for? Be sure to bring your questions with you tonight, as time permits, we'll open the floor to you too. When was the last time you had a chance to hear from codes and standards, a manufacturer, a contractor/estimator/project manager and a plumbing inspector at the same time, better yet, get involved?

December 14, 2010

Handbook Basic: **Medical Gases: Components & Requirements** — 3:45 - 5:30 PM
Vendor Class: **Zoning** w/ Jim Eardley of Target Sales — 3:45 - 5:30 PM
Design Class: **LEED 3.0 for Existing Buildings** — 6:00 - 8:00 PM
Presenter: Alan H. Deal, PE, Performance Engineering Group, Inc.

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 achieve or maintain a LEED certified facility.

January 18, 2011

Handbook Basic: **Medical Vacuum Systems & Design** — 3:45 - 5:30 PM
Vendor Class: **Highland Tank** — 3:45 - 5:30 PM
Design Class: **Fuel Oil & Gasoline Systems Designs: Codes, UST & AST Rules** — 6:00 - 8:00 PM
Presenter: Casey J. Smith, Founder and President of Phoenix Environmental, Inc.

This program will familiarize professionals with regulatory framework for the storage and dispensing of combustible and flammable liquids. Mr. Smith will begin with an overview of the history and reasons for regulation, regulations, uses, installations and removals. Removal of existing UST's and AST's includes rules and notices, professional licenses/certifications, minimum qualifications/ training for workers, regulatory oversight, and reporting requirements. Installation planning covers: Determination of use, regulatory jurisdiction, permits, site considerations, equipment specifications, excavation, backfill, piping, inspections, startup and monitoring. Operation will cover insurance, monitoring, maintenance, record keeping and reporting.

February 15, 2011

Handbook Basic: **Oxygen Systems & Design** — 3:45 - 5:30 PM
Vendor Class: **Navien Tankless Water Heating** w/ George Johnston — 3:45 - 5:30 PM
Design Class: **Hot Water on Demand** — 6:00 - 8:00 PM
Panel Discussion: Dan McCleary of Balfrey & Johnston, Gary VanDenberg of HS Buy/Van, Anthony D'Ascenzo, CEO of Guardian Plumbing & Heating; Alan Deal, PE, will serve as moderator.

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.

March 15, 2011

Handbook Basic: **Medical Air: Components, Systems & Design**— 3:45 - 5:30 PM
Vendor Class: **Seismic Proper Design, Application & Code Requirements** w/ Kyle Tevault — 3:45 - 5:30 PM
Design Class: **Compressed Air: Equipment & Selection, Design & Application** — 6:00 - 8:00 PM
Presenter: Ron Warren, PE, Engineered Product Regional Manager, Ingersoll-Rand

Topics to be covered include: Equipment selection – Compressors (reciprocating, rotary and centrifugal), Dryers (refrigerated and desiccant), Filtration; Block diagrams – compressor room and plant layouts; Piping – sizing and design

April 19, 2011

Handbook Basic: **Ultra Pure Water** — 3:45 - 5:30 PM
Vendor Class: **Supplement to main program** w/ Josh Looper, PE, of R.L. Deppmann Company — 3:45 - 5:30 PM
Program: **Chilled Water Systems: Design & Application**— 6:00 - 8:00 PM
Presenter: TBA

To be announced.

May 17, 2011

Handbook Basic: **Specifications: Old Formats vs New Formats 15000 V 22000** — 3:45 - 5:30 PM
Vendor Class: TBA — 3:45 - 5:30 PM
Design Class: **Steam & Condensate Systems: Design & Application** — 6:00 - 8:00 PM
Presenter: Greg Merlo, Merlo Energy Company

This class will cover the Fundamentals of Steam – pressure/temperature, sensible/latent heat, volumetric differences, flash steam; air venting; steam trap operation – sizing and selections; Proper piping practices – steam main drips, air coils and shell and tube heat exchangers; Water hammer and freeze prevention in steam air coils and steam and condensate line sizing.

SPEAKERS



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.



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.



Dann Holmes is the Senior Michigan District Manager for Viega LLC. He spent 23 years in the contractor tool supply business before joining Viega in 2002. He is well versed in press technologies, radiant heating systems and hybrid copper and PEX tubing systems. He is an active member of the Eastern Michigan Chapter of ASPE, a board member the Eastern Michigan Radiant Panel Association and a member of the Michigan Chapter of the Society of Fire Protection Engineers. He has applied for his instructor certification approval number with the State of Michigan for 5 registered CEU class subjects.



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).



Casey J. Smith is President and founder of Phoenix Environmental, Inc. of Whitmore Lake, Michigan. Phoenix was founded in early 1998 and provides contracting services to supply and install fuel systems for commercial, industrial and institutional customers. Phoenix provides union specialty mechanical services as well as being a union licensed electrical contractor, and has had the responsibility of installing fuel systems for major automotive testing facilities numerous hospitals, insurance data centers, large municipalities and utility companies. Mr. Smith is a 1988 graduate of the South Dakota School of Mines and Technology with a B.S in Geological Engineering. He holds several OSHA certifications as well as numerous equipment installation and repair certifications. Mr. Smith is a Registered Professional Geologist in the State of Tennessee. Prior to starting Phoenix Environmental, Mr. Smith held the positions as; a Geophysicist in West Africa, a Hydrogeologist across much of the United States and most notably as the Great Lakes District Manager for Professional Service Industries (PSI). His duties with PSI included Environmental P & L responsibility and Technical oversight for numerous offices in MI, OH, PA, WV, IN, WI and KY.



Ron Warren, PE, is the Engineered Product Regional Manager for Ingersoll Rand located in Livonia, Michigan. He started with Ingersoll Rand Company in Canada in 1988 as an Application Engineer. In 1999 he moved into the role of Manager for Stantec Consulting Group (London Ontario) to manage projects, and staff in the Automotive Manufacturing area. After a number of assignments in project engineering and business development he moved to Ingersoll Rand USA- Industrial Group, in Indianapolis, Indiana, again as Regional Sales Manager - Process Group. In 2005, Ron moved to Ontario, Canada to run Compressed air design training modules for A/E firms, and aftermarket projects. In 2006 after completion of the one-year assignment he moved to Michigan to take the role of Regional Sales Manager- Process group with sector responsibilities in Automotive. In December of 2008, he moved into the role of Engineered Product Sales and Applications. Ron Warren earned his BS in Mechanical Engineering from Technical University Nova Scotia in 1988 and his Project Management Institute certificate in 2000.

SPEAKERS *continued*



Greg Merlo is the former owner of Merlo Steam Equipment Co. Inc., and is employed by Merlo Energy, a division of the Galloup Company. Greg attended Lawrence Technical University and Wayne State University and has 36+ years of experience of educating industry in the proper utilization of steam for both process and HVAC systems. He was the first “junior” member of NAPE (National Association of Power Engineers); is a past President of the Detroit Chapter of ASHRAE and currently the Historical Committee Chair. With his experience and certification as a “steam technician” he has shown the many steam users throughout the State of Michigan, how to properly design and pipe, energy efficient steam systems. Greg has provided training to the skilled trades and engineers at virtually all industrial sectors through out Michigan, which include; automotive, paper, food, utility, education, hospitals, chemical, construction and engineering.

VENDOR CLASSES / TABLETOPS

Manufacturers representatives interested in holding a class in conjunction with a particular design class should contact John Nussbaum at (313) 341-7661 ext. 211 or e-mail to jnussbaum@mcadetroit.org. The time slot available is from 3:45 pm to 5:30 pm. A room will be provided for your use. We request a speaker photo, brief bio and class description be provided for promotional use by the Chapter.

If you are interested in having one or more table top display(s) at one of our meetings, please contact Ed Hawley at (248) 656-8253 to make arrangements.

INSTRUCTOR

ASPE Handbook Instructor

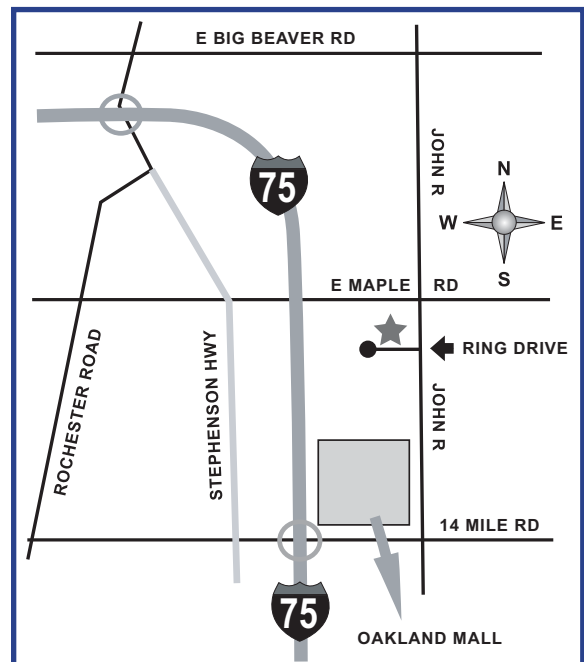


Joseph Hernandez, CPD, received an Associate in Science of Architecture from Henry Ford Community College in 1977 and Bachelor of Mechanical Engineering from Wayne State University in 1988. He has worked for Harley, Ellis, Piece and Yee, Albert Kahn Associates, Giffels and at SSOE Inc. for 13 years. At these A/E

firms he held the position of Project Engineer and at SSOE Inc. he was a Senior Associate and the Group Leader for the Retail Division Mechanical Engineering Department. He is presently employed by Integrated Design Solutions and started in the Architectural industry in 1971 as an architectural draftsman while in college.

LOCATION

ALL Programs take place at the Plumbing Industry Training Center in Troy, MI, unless otherwise stated in the program brochure.



1911 Ring Drive, Troy, MI 48083