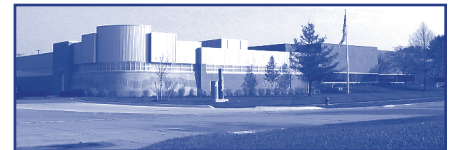




Anyone involved in the plumbing industry would benefit from attending these very informative classes. Knowledgeable and industry-wise presenters teach and interact with attendees in a relaxed and friendly atmosphere. Classes take place at one of the premier training centers in southeastern Michigan, the Metropolitan Detroit Plumbing Industry Training Center in Troy, Michigan. Jointly sponsored by the the Eastern Michigan Chapter of the American Society of Plumbing Engineers (ASPE) and American Society of Sanitary Engineering - Michigan Chapter (ASSE), the programs are designed to give a well rounded learning experience. Classes are open to anyone interested. Dinner cost is \$18 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 and CPD Exam preparation. Vendors are encouraged to hold and to introduce the latest technologies. Pre-registration is required. Contact ASPE Director/ Chapter Affiliate Dann Holmes by e-mail at dann.holmes7@gmail.com or phone (248) 939-2476 (cell) 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

EASTERN MICHIGAN PROGRAMS

September 20, 2011

CPD Prep Class: 4:00 - 5:30 PM
 Design Class: **Building Information Management More Than Just 3D— 6:00 - 8:00 PM**
 Presenter: Dave Jones, Branch Manager - John E. Green Company
 Gary Stephenson, Project Manager - John E. Green Company

3D modeling of buildings as part of the design and construction process is a reality and is here to stay. Using examples from actual construction projects, attendees will see how it has been used on jobs to the benefit of all involved—owners, engineers, contractors, project managers, estimators, and plumbers. There's definitely a price to pay in its implementation but rather than fight the inevitable, embrace the possibilities!

October 18, 2011

CPD Prep Class: 4:00 - 5:30 PM
 Design Class: **"What's Wrong With Our Drawings?" — 6:00 - 8:00 PM**
 Panel Discussion: Moderator: George Dobrowitsky, CPD-Master Plumber - WI
 Panel Members: Tom Allard, Project Manager - John E Green Co
 Estaban Cabello, PE - JRED Engineering, Inc. ~ Scott Morgan, PE - SHW Group
 Barry Pines, CPD-Master Plumber - C&R Plumbing
 Wayne Robinson - City of Detroit

November 8, 2011

CPD Prep Class: **NOT HELD ON THIS DATE**
 Design Class: **LEED Plumb @ MASCO [Green Plumbing Fixtures]— 6:00 - 8:00 PM**
 To be held **OFF SITE at MASCO** (see map in November Flyer, November ASPE Newsletter or Visit our web site at www.aspe.org/Eastern_Michigan (*URL is case sensitive*)
*** Spouses are also invited to view the Art Exhibit**
 Presenter: Jeremy Cantor, Regional Commercial Sales Manager - Delta Faucet Company

This presentation will explore commercial products for plumbing. This presentation will demonstrate what to look for when specifying commercial grade fixtures. Topics will included standard fixtures and trim as well as electronics, water conserving, and healthcare related products. The overall intention of this presentation is to ensure that the specifying community has enhanced knowledge of commercial grade plumbing fixtures.

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

EASTERN MICHIGAN PROGRAMS *continued*

December 13, 2011

CPD Prep Class: 4:00 - 5:30 PM
Design Class: **Ultra Pure Water** — 6:00 - 8:00 PM
Presenter: Chris Yarima, Application Specialist - Millipore

An understanding of the design and regulatory requirements for the production, storage, and distribution of purified water in laboratory, hospital, and industrial settings. It is important for anyone in the pharmaceutical/biotech/academic community that uses purified water to get a good understanding of how water is purified. To understand this, we will discuss; where water is used in the Pure Water Industry, water quality standards, the main types of contaminants, and the units and methods used to measure them. From there we will discuss the technologies used in most water purification systems including; multimedia, carbon, softeners, depth and screen filter, reverse osmosis, electro-deionization, ion-exchange, ultra filtration, and the use of ultraviolet light. The presentation will finish by reviewing the importance of using a combination of technologies to optimize the performance of a water purification system, key design considerations and validation.

January 17, 2012

Code Class: 4:00 - 5:30 PM
Design Class: **Smart Pumps** — 6:00 - 8:00 PM
Panel Discussion: Moderator: Jim Eardley, Sales Rep. - Target Sales
Panel Members: Brian Burrows, Sales Manager - Grundfos Pumps Corp.
Jeff Turner, Representative - Wilo Pumps
Mike Hittle, Distribution Manager - R.L. Deppmann
KL McCoy - Panelist Representative - To Be Determined

February 21, 2012

Code Class: 4:00 - 5:30 PM
Design Class: **Booster Pumps** — 6:00 - 8:00 PM
Presenter: Norm Hall, BSEE - RL Deppmann

Pumps and pumping systems in plumbing systems are subjects that could take weeks of meetings to completely understand. In the shortened version we will look at pressure booster pumps. In an effort to supply something for everyone the program will cover the gamut from the basic pump with a switch through constant speed systems and variable speed systems. The newer engineer or designer will learn to prepare the required capacities for pressure boosters as well as the types of systems normally provided in new construction today. The seasoned engineer will learn about options and the use of variable speed in pressure boosting as well as how to size the no flow tank. In addition to the above, plumbing contractors will pick up knowledge of the basic components needed for a field “built-up” booster system as well as some installation tips for larger systems. Join us for this interesting and informative meeting.

March 20, 2012

Code Class: 4:00 - 5:30 PM
Design Class: **GeoExchange Systems: Design & Application** — 6:00 - 8:00 PM
Presenter: Joe Schwartz, PE, CGD, LEED AP BD+C - Integrated Design Solutions, LLC

This program will provide design professionals with an overview of GeoExchange systems. Topics include GeoExchange system operation, ground heat exchanger types, heat exchanger components and materials, distributed vs. central heat pump systems, and the basic GeoExchange system design process.

April 17, 2012

Code Class: **NOT HELD ON THIS DATE**
Program: **Tour of University of Michigan (Nano-tech lab)**— 6:00 - 8:00 PM
To be held **OFF SITE at University of Michigan Nano Tech Lab** (see map in April Flyer, April ASPE Newsletter or visit our web site at www.aspe.org/Eastern_Michigan (*URL is case sensitive*))
Presenter: Dennis Schweiger, Senior Research Supervisor-LNF Infrastructure - University of Michigan - Department of Electrical Engineering and Computer Science

The current LNF facility is an expansion of the former Solid-State Electronics Lab. Dennis was a key component of the team that conceived, designed, and constructed the facility, and he currently provides facility support services for hundreds of LNF users. In addition to facility support, he deals regularly with tool integration, encompassing gas delivery (HPM and non-hazardous), gas detection, facility modification/upgrade, as well as tool modification for installation and interface into our facility.

May 15, 2012

Code Class: 4:00 - 5:30 PM
Design Class: **“ASSE” Mixing Values** — 6:00 - 8:00 PM
Presenter: Tim Kilbane, National Sales Manager - Symmons Industries

New ASSE standards regarding scalding keep pace with application needs and product advancements in plumbing.

SPEAKERS



Norman Hall is a graduate engineer with a BSEE from Wayne State University. Norm is a Member of ASPE, and ASHRAE. He is a past President of the ASHRAE Detroit Chapter. He has been with RL Deppmann for 31 years where his job duties have run the gamut from estimator, engineering sales, parts department, sales and branch management. He currently serves the Industry and President of RL Deppmann. Throughout his career Norm has given seminars and classes to over 10,000 people in the Industry and truly embraces the Deppmann Core Value, To Teach.



Tim Kilbane is the National Sales Manager at Symmons Industries. Tim began his career at Symmons in 1988 as the Central Regional Sales Manager and in 1996 he was promoted to National Sales Manager. Tim has over 35 years of plumbing experience including master plumber field expertise, product origination, codes and standards development and application experience. He has been an active member of various standards committees in the industry over the course of his career at Symmons. Tim served as Chairman of the ASSE 1016 Standard Development Working Group, is a member of the ASPE Working Group 15 Hot Water Temperature Committee, and was a member of the IPC Adhoc committee on Temperature Control. Tim currently sits on the Executive Board of Directors of the Plumbing Manufacturers Institute (PMI) and serves as a Co-Chairman of their Water Temperature Device Committee.



Joe Schwartz, PE, CGD, LEED AP BD+C is mechanical engineer with Integrated Design Solutions, LLC, a leading architectural/engineering firm located in Troy, Michigan. A graduate of University of Detroit Mercy, Joe is a licensed professional engineer, Certified GeoExchange Designer, and LEED Accredited Professional. Joe has over ten years of experience in the design and specification of mechanical systems for various types of commercial and institutional facilities. He has extensive experience in sustainable building design, specifically in the design of GeoExchange HVAC systems. Joe has worked on GeoExchange system design throughout his entire career and has designed and implemented GeoExchange systems in various building types including schools, commercial offices, and multi-tenant residential buildings.



Jeremy Cantor has been working in the plumbing industry for the past six years. He is currently working as Delta Faucet's Regional Commercial Sales Manager. Prior to this, Jeremy was employed at American Standard. Jeremy is a graduate of Ryerson University in Toronto, Canada. He has been a member of ASPE since working in this industry.



Chris Yarima has been with Millipore for 18 years, has performed as an Application Specialist for 16 years, and held the previous position of Service Engineer for 2 years. Additionally Chris has 10 years Navel Service Prior to working with Raytheon.



Senior Research Supervisor - LNF Infrastructure

Dennis Schweiger joined the Department of Electrical Engineering and Computer Science (EECS) in 1995. In his current role as the Senior Research Supervisor-LNF Infrastructure, he designed and implemented the existing life-safety system for the facility and the EECS Building. The current LNF facility is an expansion of the former Solid-State Electronics Lab. Dennis was a key component of the team that conceived, designed, and constructed the facility, and he currently provides facility support services for hundreds of LNF users. In addition to facility support, he deals regularly with tool integration, encompassing gas delivery (HPM and non-hazardous), gas detection, facility modification/upgrade, as well as tool modification for installation and interface into our facility.

SPEAKERS *continued*



Dave Jones began his career in the plumbing industry over 30 years ago after working a summer job as a laborer and subsequently deciding to leave the pursuit of a liberal arts degree from the University of Michigan. He began doing residential service work, worked in a mechanical contractor's warehouse, completed a plumber apprenticeship program and worked in the field as a journeyman and foreman. For the last 23 years he's been in the office of the John E. Green Company with responsibilities that have included coordinating and designing plumbing, fire protection, and HVAC systems, estimating, project management, and is currently the Branch Manager of John E. Green Company's Ann Arbor Office. Recent completed projects have included hospitals, laboratories, university buildings, waste and water treatment plants, and residence halls. Dave has been a member of the State of Michigan Plumbing Board since 2006, representing licensed plumbing contractors who hold master's licenses and was named the ASSE/ASPE Michigan Chapter, Engineer of the Year for 2009-2010. He is Chapter President for the Greater Michigan Chapter of the National Certified Pipe Welding Bureau, a member of the local Joint Apprenticeship Committee, is a voting member of the ASTM B05 Committee on Copper and Copper Alloys and is also a member of ASME, AWWA, and NFPA.



Gary Stephenson has been using CAD to draw and model mechanical systems since 1989 and started with the John E. Green Company in 1994 to help develop the CAD department and coordination team. He manages all project coordination done out of the Ann Arbor office and has coordinated projects for all of the other John E. Green branch offices. He was responsible for establishing common standards and practices among coordinators and implementation of the National CAD / BIM Standards and training within the office. He has completed BIM models for hospitals, laboratories, sports arenas & office buildings using AutoCAD, TSI, NavisWorks & other 3d software.

VENDOR CLASSES / TABLETOPS

Manufacturers representatives interested in holding a class in conjunction with a particular design class could be made available if desired. Contact John Nussbaum at (313) 341-7661 ext. 211 or e-mail to jnussbaum@mcadetroit.org. The time slot available is from 4:00 pm to 5:30 pm. A room would 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 Dann Holmes at (248) 939-2476 (cell) to make arrangements.

INSTRUCTOR

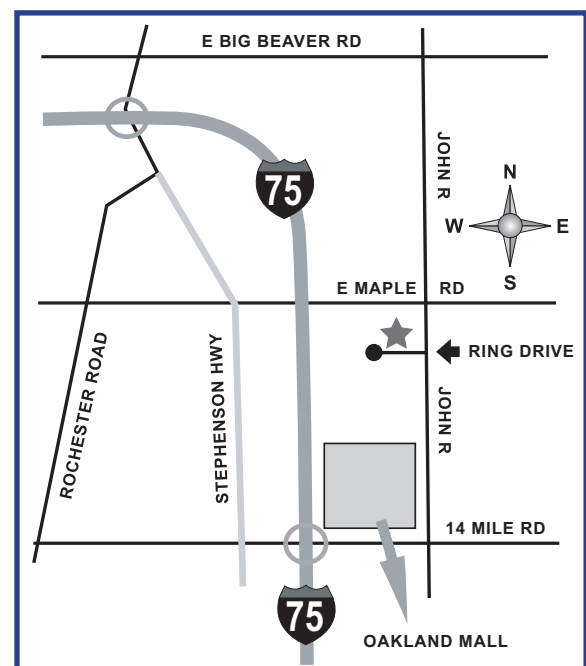
ASPE Handbook Instructor - Current President



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. Joe served as Department Head at Integrated Design Solutions, LLC for over 2 years. He began his career 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