



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 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 18, 2012

Design Class: Boiler Basics 101 Category Venting — 6:00 - 8:00 PM
Presenter: Joe Hernandez

October 16, 2012

Design Class: Domestic Hot Water Systems — 6:00 - 8:00 PM
Presenter: Ronald L. George

How to design water heaters, mixing valves and circulating pumps, to work in harmony to provide a safe energy efficient hot water systems.

November 20, 2012

Design Class: EPA's New Boiler Rules — 6:00 - 8:00 PM
Presenter: James A. Ostrowski, Michigan Dept. of Environmental Quality

This class covers what you will need to know about these Federal rules to be in compliance. This program is for the Design Professionals, Contractors, Owners and their Boiler Operators.

December 11, 2012

Design Class: Piping and Critical Components — 6:00 - 8:00 PM
Presenter: Ronald L. George

This discussion will cover Piping and Critical Components required for good piping systems: This will include Pipe Materials, Joining Methods, Clearance requirements, Sleeves, expansion loops, valves, strainers, pressure and temperature gauges, etc. This session will cover the recommended Piping, Valves and Critical Components required for various pieces of equipment in order for the building engineer or maintenance personnel to be able to diagnose and maintain a system.

January 15, 2013

Design Class: Backflow Preventers for Fire Sprinkler Systems, Design and Application. — 6:00 - 8:00 PM
Presenter: Gunner Collins

The Design and Installation of Fire Sprinkler Systems requiring backflow prevention devices including detector checks, and proper fire pump sizing and valving to allow periodic testing and maintenance of Fire Systems.

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

February 19, 2013

Design Class: NFPA-99 Health Care Facilities Code — 6:00 - 8:00 PM
Presenter: Mark Allen and/or Karrie Baker

Review of the changes in Medical Gas & Vacuum System Requirements from the 2005 to the 2012 Editions of NFPA 99 Health Care Facilities, prior to Michigan Adoption - A continuing education publication will be distributed to all attendees.

March 19, 2013

Design Class: New ASHRAE Standard 188P & Guideline 12 — 6:00 - 8:00 PM
Presenter: Ronald L. George & Edward Lyczko

This review covers Legionella control in building water systems and how to design hot water systems to minimize the growth and incubation of Legionella Bacteria.

April 16, 2013

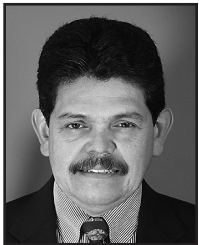
Program: Water Reuse Systems and Utilization, Practical Design and Implementation — 6:00 - 8:00 PM
Presenter: Michael Gauthier

The design tools to engineer efficient water reclamation systems for non potable application under the framework of LEED. Rain, gray water, cooling condensate & wash water. Design, sizing, storage, filtration/disinfection and transmission of non-potable water for utilization in commercial/industrial/institutional reuse applications.

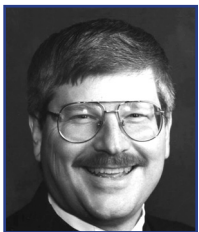
May 21, 2013

Design Class: Thermal and Hydronic Expansion — 6:00 - 8:00 PM
Presenter: Ken Rutherford

Thermal and Hydronic Expansion, Tank Solutions to expansion conditions, HVAC Tank, domestic water tank and well water applications.



Joseph Hernandez, CPD, ASPE Handbook Instructor - Current President 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.



Ron George, Mr. George is the president of Plumb-Tech Design & Consulting Services LLC and oversees all operations and oversees all design and consulting projects. Mr. George is very familiar with the plumbing and mechanical codes and standards and sits on numerous plumbing & mechanical codes and standards committees. He has over 32 years of experience designing plumbing and mechanical systems for several major architectural, engineering, and design & construct firms. He has served as an expert witness in many cases and performs forensic investigations all around the United States. He has designed plumbing, mechanical, and fire protection systems for all building types including airports, stadiums, industrial manufacturing facilities, office buildings, commercial and retail buildings, hospitals, laboratories, prisons, jails, hotels, apartment buildings, military projects, high rise and educational facilities. www.Plumb-Techllc.com and www.Legionellaprevention.org and www.scaldprevention.org.



Jim Ostrowski works in the Department of Environmental Quality's, Office of Environmental Assistance. He specializes in developing training tools and conducting workshops for state and federal air quality requirements and providing compliance assistance to companies throughout the state. To date Jim has developed and conducted several training programs for companies subject to air permitting, air emissions reporting, and various other requirements. He has been instrumental in developing all seven editions of the Michigan Guide to Environmental, Health, and Safety Regulations as well as the Michigan Environmental Compliance Conference.

Jim is a graduate of Michigan State University and holds a bachelor's degree in environmental and natural resource policy studies.

SPEAKERS



Michael Gauthier, Division Manager Water/Fire/ASME/System Design and Sales Manager/Engineer Highland Tank & Manufacturing Company, has over 18 years experience in the water/wastewater industry. Employed with Highland Tank for over 10 years Michael has been instrumental in the development and engineering of new products for the waste water division. Highlights include development of Highland Tank's HighDRO line of water reuse systems. Michael is also co-author of Vol- 4 ASPE Plumbing Engineering Design Handbook Chapter 8: Grease Interceptors.



Ken Rutherford, Mr. Rutherford is an ASHRAE member engineer with 30 years commercial HVAC product experience. Mr Rutherford worked for 6 years as an educator with the Indiana Vocational Technical College, elevating the knowledge and skills of Indiana contractors. Mr. Rutherford has been working as a Territory Engineer for Amtrol since 2006, earning Wisconsin, Illinois and Iowa state approval to present accredited continued education classes for licensed contractors.



Mark Allen, has been involved in medical gas industry since 1978. He started out of college with one of the earliest certification firms back when "certification" of medical gas systems was just gaining credence. After seven years, he transitioned to a major manufacturer in 1985 and has performed various technical and marketing roles. He is now Marketing Director with BeaconMedæ. He has been involved in virtually all aspects of medical gas work, including regulatory, testing and verification, marketing, and product development over the last 34 years. He is an active member of the National Fire Protection Association Technical Committee on Medical Gas and Vacuum Systems and has been involved with that Committee since the 1987 edition. He is also an active member of the Canadian Standards Association Technical Committee on Medical Gas and Vacuum Systems and a member of the US Technical Advisory Group to the ISO. He has been honored by the MGPHO Verifier's organization as a special expert. He has Chaired various committees with industry regulatory bodies and is the author of numerous journal articles, design guides and other technical aids for the engineering of medical gases. He is a frequent speaker on the various aspects of medical gas for ASPE, ASHE and regulatory agencies.



Gunnar Collins possesses an Illinois State Plumbing License and has carried an active Inspectors License for the last 20 years. He has worked in the family owned business for over 21 years. He also carries an ASSE Certification for Cross Connection Control Survey. Gunnar is proficient in Advanced 3D Auto Cad and teaches an advanced cross connection course. He is an approved State of Illinois continuing education instructor.

Gunnar has gained much knowledge about the requirements of Fire Sprinkler and Life Saving Systems specifically the installation of backflow devices in new and existing fire sprinkler systems by working with Fire Sprinkler Engineers over the years.



Karrie Baker, is the Medical Gas Specialist who represents BeaconMedæ with responsibilities for the Sales and Territory Management of Michigan, Northern Ohio, Northern West Virginia and Western Pennsylvania. Karrie works along side of Colleen Anderson of CS Anderson Inc. to provide support to all BeaconMedæ customers and potential customers. Prior to joining BeaconMedæ, Karrie worked in Project Management for Hill-Rom and the Department of Energy. Notable are her 11 years of experience in the Medgas Field and obtaining a Masters Degree in Organizational Leadership from the University of Findlay. Karrie is also a member of MISHE and NOSHE.

SPEAKERS *continued*



Edward Lyczko began his five year plumbing apprenticeship in 1969 with Cleveland UA Plumbers Local #55. He recently retired from the Facilities Engineering Department of the 1,300 bed, internationally renowned, Cleveland Clinic, where he had worked for 35 years (18 yrs. as Plumbing Supervisor). Lyczko is a voting member of the NFPA 99 – 2012 HEA-PIP medical gas committee and is a national speaker and a published author (both nationally and globally) of topics regarding backflow prevention and medical gas piping systems and their profound influences on healthcare delivery and patient safety.

Lyczko has been a member of the ASSE Northern Ohio Chapter for 26 years. He is on the Board of the Northern Ohio Chapter, serves on several committees of the International Society and is an International Past President of ASSE (2002-2003).

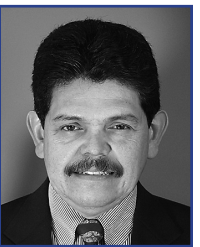
VENDOR CLASSES / TABLETOPS

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

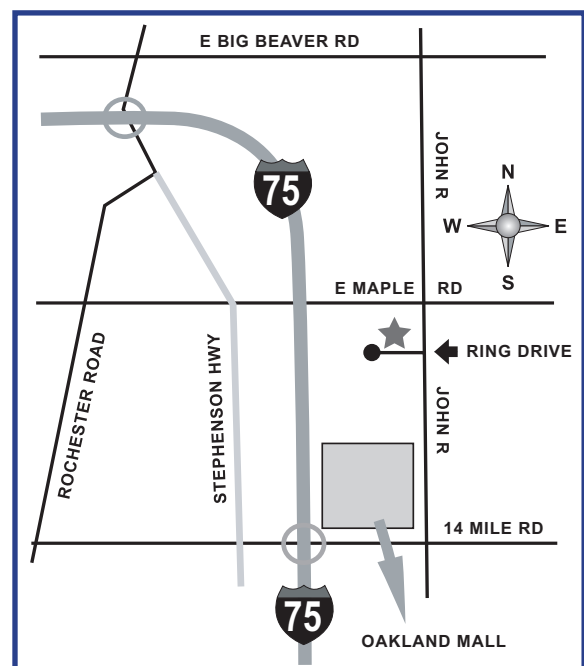


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firms he held the position of Project Engineer and at SSOE Inc. He was a Senior Associate and the Group Leader for the Retail Division Mechanical Engineering Department. Joe served as Department Head at Integrated Design Solutions, LLC for over 2 years. 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.



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