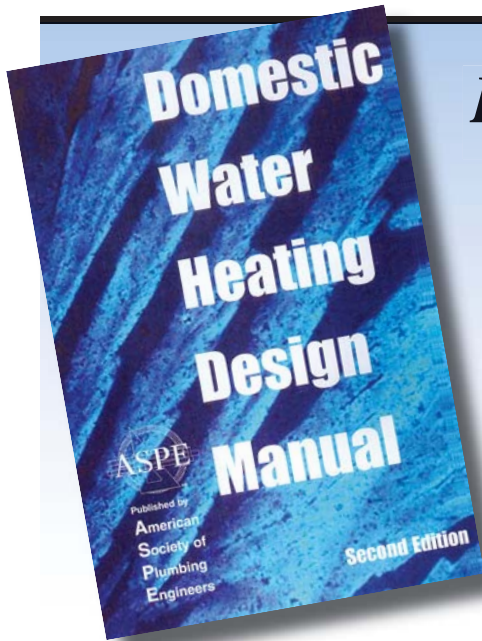


American Society of Plumbing Engineers Eastern Michigan Chapter

14801 West Eight Mile Road ▲ Detroit, Michigan 48235
(313) 341-7661 phone ▲ (313) 341-1007 fax
<http://eastern-michigan.aspe.org>



Domestic Hot Water System Design

Tuesday, April 27, 2010

Plumbing Industry Training Center

1911 Ring Drive
Troy, Michigan 48083

8:00 AM - Registration

Includes continental breakfast

8:30 AM - 12:30 PM - Seminar

Cost: \$70 per person/ includes the manual

The first 25 prepaid registrations by present ASPE EMC members will be refunded the cost of the manual (\$30).

Non-member cost: \$100

Special Offer: \$220 gets you a membership in ASPE in addition to the seminar and manual (*SEE enclosed application form*).

The Domestic Water Heating Design Manual addresses the need for standard, rational methodologies in the field of plumbing engineering. Written and extensively reviewed by plumbing engineers and designers, this book is the most comprehensive guide to the sizing and design of domestic water heating systems. It offers a rational approach to the design of cost- and energy-efficient systems for a wide variety of uses and building types. This Manual, a publication of the American Society of Plumbing Engineers, presents the most up-to-date knowledge and information.

When designing a hot water supply system the plumbing designer is faced with making many decisions and assumptions. This course will explain the different types of loads, water heating systems and sizing resources available. The course will cover load calculations, thermal expansion concerns, multiple temperature systems, re-circulation rate calculation, relevant sections of the International Plumbing Code and total system design. The designer of hot water supply systems has a variety of information resources available when designing and selecting a hot water supply system. The available references include ASPE, ASHRAE and various computer aided sizing programs from equipment manufacturers and others. The latest ASPE Domestic Water Heating Design Manual will be discussed in depth and used as the basis for the class. Participants in this course will learn how the various types of resources compute the loads for several design examples. They will compare the results and develop a sense of "practical knowledge" as well as an understanding of how the computerized selections are made. These exercises will be completed for storage type, instantaneous and semi-instantaneous water heating systems. A comparison of which type of system should be used relative to the load being served will be presented.



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.

Questions? Contact Cassie Mudloff at (313) 341-7661 ext. 205 or e-mail cmudloff@mcadetroit.org. Fill in the seminar form (and Membership application) and mail with check made payable to ASPE EMC to: ASPE Seminar, 14801 West 8 Mile Road, Detroit, MI 48235

NAME _____

COMPANY OR AFFILIATION _____

ADDRESS _____

TELEPHONE NUMBER _____

FAX NUMBER _____

Credit cards are not accepted. Registrations will be taken in the order they are received—**only** by mail accompanied with full payment.

\$ _____
AMOUNT ENCLOSED

No. _____
CHECK NUMBER

CITY / STATE / ZIP CODE _____

E-MAIL ADDRESS _____

ASPE SEMINAR

American Society of Plumbing Engineers-Eastern Michigan Chapter

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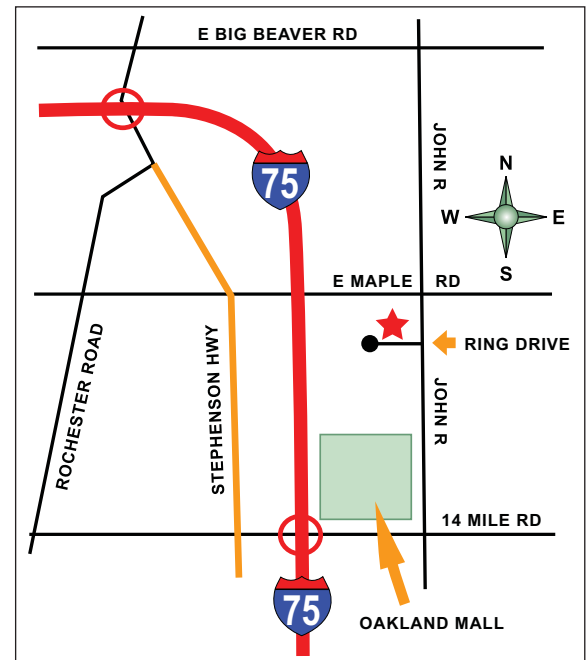
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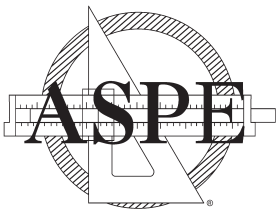
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Map to the Plumbing Industry Training Center 1911 Ring Drive - Troy, MI West of and off John R, north of 14 Mile Rd.



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.



American Society of Plumbing Engineers Membership Information

Immediate Member Benefits

The Plumbing Engineering Design Handbook: The most definitive collection of general plumbing practices in the field of plumbing engineering. The ASPE Handbook consists of forty-seven chapters divided into four volumes. New members receive one of four volumes immediately upon joining and the revised volume thereafter.

Plumbing Systems & Design Magazine: Members immediately begin receiving *Plumbing Systems & Design* magazine. This bimonthly magazine covers a wide spectrum of topics important to the profession and to daily practices in the field.

The ASPE Report: The Society's bimonthly newsletter, incorporated with-in the *Plumbing Systems & Design* magazine, keeps members abreast of Society activities and issues impacting the profession.

Publication and Education Program Discounts: All publications, education programs, and other services and products of the Society are offered at special discounted rates to ASPE members.

Collegial Interaction and Networking

Every ASPE member not only belongs to ASPE worldwide, but has the opportunity to belong to one of 61 Chapters organized throughout the United States and Canada. Chapters sponsor seminars, conduct monthly technical meetings, publish newsletters and offer special peer-to-peer and professional-to-professional interaction and networking opportunities.

Professional Growth and Development

The ASPE Biennial Convention and Engineered Plumbing Exposition (EPE) is the premier educational and professional development event for plumbing engineers and designers. The Convention features a comprehensive program of educational, technical and professional development presentations and seminars designed to enhance professional knowledge and foster awareness of new techniques. The concurrent EPE is the largest Exposition dedicated entirely to the field of plumbing engineering.

The ASPE Technical Symposium is offered in non-Convention years and provides a unique forum for the most comprehensive and intensive half-day and full-day plumbing engineering design seminars and workshops available anywhere. The "hands-on" workshops provide the plumbing engineer with information about new developments in the industry and new techniques for practical implementation in the field.

Technical Seminars and Workshops sponsored by ASPE offer one- or two-day programs conducted by leading industry professionals. Each educational program focuses on a specific area of plumbing engineering.

Continuing Education Units (CEUs): ASPE offers the opportunity to earn Continuing Education Units at selected technical program sessions at the biennial Convention, the Technical Symposium and at stand-alone Seminars and Workshops. CEUs are nationally recognized units of achievement that may be used as evidence of increased performance capabilities and for job advancement.

The Society shall be open to anyone involved in, or having a special interest in, the design, specification or drawing of plumbing systems.

Dues: Please choose the appropriate membership classification and remit dues with this application. In the event the membership classification is changed, a corrected dues statement (or dues overpayment refund) will be sent with your notice of election.

The required \$25 Application Fee (U.S. dollars) is nonrefundable. There is no application fee for student membership.

Membership Classifications

Membership classification (Grade) will be conferred based on Article II of the ASPE Bylaws as follows:

Full Member: Eight (8) years of experience in plumbing engineering or related engineering field, a minimum of four (4) years of which must have been in a position of responsibility for the design of plumbing systems or in a position of responsibility for the design of systems and components related to, or incorporated within, plumbing engineered and designed systems. A maximum of four (4) years of experience may be waived by the Society Membership Committee for: (a) Education: one-half (1/2) year for each completed year in a curriculum related to plumbing engineering; (b) Engineering Registration: four (4) years for Professional Engineer registration in a field that includes plumbing engineering; (c) CIPE certification: two (2) years. Dues: \$185.

Associate Member: Professionals engaged in plumbing design as consultants or engineers with fewer than eight years of industry experience. Dues: \$165.

Affiliate Member: Any individual involved in the production or marketing of plumbing products. Dues: \$185.

Special Member: Professionals in related fields, such as contractors, or those with a special interest in plumbing design whose professional background do not match the requirements for any of the other categories may apply for Special membership. Dues: \$185.

Governmental Member: Anyone employed by municipal, state, or federal governments for one of the following reasons:

- A. Checking and/or inspection of plumbing plans and installations;
- B. The formulation of codes, rules, requirements and regulations pertaining to the planning, designing and installation of plumbing systems, or any portion of a plumbing system;
- C. Research and development of plumbing systems design criteria. Exception: Persons employed by a government agency for the purpose of designing and/or specifying plumbing systems, who shall be eligible to be Full or Associate members, provided they have fulfilled the experience required as outlined for each respective classification. Dues: \$185.

Student Member: Any individual attending a recognized University or college full time (12 credit hours per term minimum) in a curriculum related to plumbing design. Dues: \$25.



AMERICAN SOCIETY OF PLUMBING ENGINEERS

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E-mail: info@aspe.org • Internet: www.aspe.org

Chapter Use Only

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MEMBERSHIP APPLICATION

(Please Print or Type)

Incomplete applications will not be processed.

Mr. Ms. Miss Mrs. First Name Middle Name Last Name Birth Date Mo / Day / Year

Check all that apply: P.E. CPD Graduate Engineer

I Have I Have not previously applied for or held membership in the Society.

RESIDENCE Street Address City State ZIP

Check Preferred Mailing Address Home Phone E-Mail (required)

BUSINESS Organization Name Phone Fax Street Address City State ZIP

I Wish to Affiliate with the Chapter. (Name of Chapter)

EDUCATIONAL RECORD

Table with columns: Name of Institution, Course or Major, Date From To, Graduation Date, Degree or Diploma

PROFESSIONAL EXPERIENCE (This section must be completed as it affects membership grade classification. List chronologically, beginning with the present. Work description must be clear and concise: e.g., plumbing, piping, fire protection, HVAC, etc. Use additional sheet as necessary.)

Table with columns: Date(Mo/Yr) From To, Firm Name and Address, Class* (see below), Title, Description of Work, Degree of Responsibility

*Classification of Firm A - Arch./Engr. or Cons. Engr. B - Govt. Agency C - Mfr. or Mfr's. Rep. D - Educ. Inst. E - Contractor F - Other (Explain)

REGISTRATION (P. E.)

State: Certificate No.: Branch:

REFERENCES (References should be in engineering profession. ASPE members preferred. ASPE reserves the right to contact references.)

Table with columns: Name, Address, Telephone

Certification by Applicant

The undersigned certifies that all statements made herein are correct and, if elected to the Society, agrees to adhere to the Society's Bylaws and accept the Classification conferred by the Society. Upon becoming a member, the applicant will endeavor to advance the objectives of the Society and the plumbing engineering profession.

Signature of Applicant Date

Sponsor: (PLEASE PRINT)

Remit Membership Dues with Application. Member Type, Amount, Amount Due. Application Fee (except students) \$25. TOTAL AMOUNT DUE. Payment Information: Enclosed is my check payable to ASPE. Please charge my: Visa, MasterCard, Discover Card, American Express. Card #, Exp Date, Signature, Date, Telephone.