

**Cleveland Chapter of The American Society of Plumbing Engineers
July 2016**

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From the President:



The 2016/2017 season begins with our annual ASPE Golf Outing held on August 4, 2016 at Fowlers Mill Golf Club. The highlights are 50/50 raffle, lunch and dinner, on course beverages, and over \$1,000 in door prizes. Please arrive at the course by 10:30 AM for a shot gun start at 12:00 Noon. If you have any questions, please contact Greg Trombold at 216.663.8700.

The 2016 ASPE Convention & Exposition will be held October 28 – November 2, 2016 in Phoenix, Arizona. Please visit aspe.org/expo for more information.

Let us know if there are any specific topics or field trips you would like to see our chapter sponsor. We are always looking for new ideas. Remember, without membership and participation, there is no local chapter.

Have a great summer!

Regards,
John A. Varga, P.E.
President, Cleveland ASPE Chapter



ASPE Cleveland Chapter

2016 Golf Outing Sign up Form

Location: Fowlers Mill golf course Date: 8-4-16

ASPE Golf Outing



This years golf outing will be held at Fowlers Mill Golf Club, which is located at 13095 Rockhaven Road, Chesterland Ohio.

The cost per golfer is \$125.00. Dinner only will be \$50.00. The cost per golfer after deadline will be \$140.00 each

Sign up on the enclosed form and return no later 7-4-16

Hole sponsorship is \$150.00 per hole. We will also have event and lunch sponsors if you are interested contact me.

Mark **August 4th** on your calendar now. Arrive at the course by 10:30 am
Shot Gun Start at 12:00 noon

Contact person: 216-663-8700 Greg Trombold

Highlights

- ◆ 50/50 raffle
- ◆ Lunch and dinner provided
- ◆ Over \$1,000.00 in door prizes
- On course beverages



ASPE Cleveland Chapter

Mail to: ASPE
4892 Johnston Pkwy
Cleveland, OH 44128

Phone: 216-663-8700
Fax: 216-663-8702
Email: gtrombold@hotmail.com

List your foursomes below

1st foursome

☐ _____
☐ _____

☐ _____
☐ _____

2nd foursome

☐ _____
☐ _____

☐ _____
☐ _____

Entry Form

Company Name

Name

Address

Fax Number

Phone

ASPE ASSE 2016 golf outing
August 4th Fowlers Mill golf club

SPONSORSHIP FORM

- The cost for hole sponsorship is \$150.00 per hole. If you have two manufactures that would like to sponsor a hole make a copy of the form and send in both copies. Please call Greg Trombold if you have any questions (216) 663-8700.

1. Company Name _____
2. Phone # _____
3. Contact Name _____

WORDING FOR SIGN (40 LETTER LIMIT)

- The hole in one sponsorship is also available. The company that contacts me first to take advantage of this will receive the following. Mention in the ASPE newsletter, a banner at the club with their name on it, and recognition at the dinner for their support. The cost for this is \$550.00
- Lunch sponsorship is also available cost \$350.00 with the same recognition as above, however the sign will be on the putting green with the companies listed that provide lunch sponsorship. I will only be accepting the first three companies that contact me on this.

Please send your check to Trombold Equipment, 4892 Johnston parkway, Cleveland, OH 44128. Deadline for registering for the golf outing or hole sponsorship is July 6th.

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Checklist for Cast Iron to PVC VE Discussion

| Item: Maximum Working Temperature (at zero psi) | YES | NO |
|--|-----|----|
| Will system exceed 140° F by design or accident? <i>Boiler condensate, comm. kitchen, washing machine, autoclaves?</i> | | |
| Fact: PVC maximum working temperature is 140° F. | | |
| Fact: CISP maximum working temperature is 212° F. | | |
| Item: Thermal Expansion | YES | NO |
| What is the air temperature at the time of installation? | | |
| What is the maximum temperature of the system? | | |
| What is the potential maximum change in temperature? | | |
| Does contractor have expansion couplings and/or off-sets figured into bid? | | |
| Access to expansion couplings for possible replacement/maintenance? | | |
| Fact: PVC will expand 3.6" per 100' of pipe with a 100° F temperature change. | | |
| Fact: CISP will expand .745" per 100' of pipe with a 100° F temperature change. | | |
| Item: Sound Attenuation | YES | NO |
| Will anyone be sleeping, convalescing, studying or working in the facility (<i>i.e., Hotels, Dormitories, Hospitals, Schools, Libraries, Retirement, Convalescing Facilities, Shared Wall Condos & Apartments, Correctional Facilities, Quiet Work Areas, etc.</i>)? | | |
| Fact: PVC requires added insulation wrap & isolation brackets for quiet performance required in many buildings. | | |
| Fact: Cast iron requires no insulation wrap because of its natural noise-dampening qualities with consistent sound performance levels in the 25 dB range (utilizing neoprene gaskets). | | |
| Item: Underground Installation | YES | NO |
| Will contractor be installing PVC with ASTM D 2321 protocol? | | |
| Will contractor be supervised during installation of underground PVC to assure required trench width, trench bottom and proper soil compaction? | | |
| Does contractor have proper backfill material figured into his bid? | | |
| Will the DWV system be installed under concrete? <i>Are the consequences of an underslab failure significant?</i> | | |
| Fact: As a flexible piping system PVC requires greater care in underground application. It is dependent upon the surrounding soil (soil pipe mechanism) in order to withstand an external load. PVC pipe is considered to be in a failed condition when earth or live loads have caused the pipe to deflect beyond a certain point, generally 5%. Calculating maximum burial depths for flexible piping systems is more complex and requires the use of the Iowa Formula, pipe stiffness values for the system employed and knowledge of local soil conditions. Additional information of the Iowa Formula is available within the Uni-Bell Handbook of PVC Pipe. | | |
| Fact: As a rigid material CISP fails when it crushes. Rigid piping systems can be evaluated with a ring crush test, and the derived values can be used to verify that the pipe will withstand the required external load. | | |
| Item: Hanger Spacing/Fall | YES | NO |
| Has the cost of additional hangers and their installation been considered? | | |
| Fact: Model Plumbing Codes require PVC DWV pipe to be supported horizontally every 4 feet. | | |
| Fact: CISP offers greater structural strength, significantly reducing hanger requirements and providing consistent fall. Cast iron needs to be supported within 18" of each joint and every 10 feet horizontally. | | |
| Item: Plenum Spaces | YES | NO |
| Does the building utilize plenum spaces for return air? | | |
| If wrapping PVC to meet ASTM E 84 is permitted by code, will a post cable/telecomm/HVAC installation inspection occur to make sure pipe/fitting wrap is not damaged or disturbed? | | |
| Fact: PVC should not be installed in a plenum. It is classified as a combustible material per ASTM E 136. | | |
| Fact: Cast iron is a non-combustible product, which can be installed in a return air plenum. | | |
| Item: Fire Wall Penetrations | YES | NO |
| Has contractor added the cost of fire-stopping materials and labor or will that be passed along to another trade? | | |
| Fact: PVC requires listed fire-stop devices or collars conforming to the requirements of ASTM E 814 on both sides of the fire-rated wall. The collars utilize intumescent fire-stopping materials. | | |
| Fact: Cast iron requires installers to only seal the annular space between the wall and the pipe. Typically mineral wool batting and fire-resistant caulking are used to fill the annular space. | | |

If you answered yes to any one of these questions, please consult a Charlotte Pipe technical services rep to further discuss the best material for your project.



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☐ Mr. ☐ Ms. ☐ Miss ☐ Mrs.

First Name (Nickname) Middle Name Last Name

Birth Date: M ___ / D ___ / Y ___ Check all that apply: ☐ P.E. ☐ P. Eng ☐ CPD ☐ Graduate Engineer ☐ LEED AP ☐ CET ☐ Other _____

I wish to affiliate with the _____ Chapter. Certification (P.E.) State _____ Certificate No. _____ Branch _____

Preferred Mailing Address ☐ RESIDENCE ☐ BUSINESS

RESIDENCE: Street Address City State ZIP Phone

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Other organizations you are a member of: ☐ ASHRAE ☐ ASSE ☐ NFPA ☐ NSPE ☐ ASME ☐ PHCC ☐ ICC ☐ IAPMO ☐ SFPE ☐ Other _____

EDUCATION

| | Name of Institution | Course or Major | From | To | Graduation Date | Degree/Diploma |
|--------------------|---------------------|-----------------|------|----|-----------------|----------------|
| High School | | | | | | |
| College/University | | | | | | |
| Technical School | | | | | | |
| Others | | | | | | |

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.)

| Date(Mo/Yr) | From | To | Firm Name and Address | Class* (see below) | Title | Description of Work | Degree of Responsibility |
|-------------|------|----|-----------------------|-----------------------|-------|---------------------|--------------------------|
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*Classification of Firm
A - Arch./Engr. or Cons. Engr.
D - Educ. Inst.
B - Govt. Agency
E - Contractor
C - Mfr. or Mfr's. Rep.
F - Other (Explain) _____

REFERENCES

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

| Name | Address | Telephone |
|------|---------|-----------|
| | | |
| | | |
| | | |

PLUMBING ENGINEERING DESIGN HANDBOOK

New members receive one of four volumes of the this definitive collection of general plumbing practices. As an ASPE member you will be sent the CD-rom unless you indicate preference for the softcover edition. If you would like both the CD-rom and softcover editions, please add \$50 to your total to the right.

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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)

How did you hear about ASPE? ☐ Past Member ☐ Plumbing Engineer Magazine ☐ Colleague/Employer ☐ ASPE App ☐ Website

☐ Other _____

American Society of Plumbing Engineers member dues are nonrefundable and not deductible as a charitable expense, but may be deductible as a business expense.

* Contributions to ASPE Education (create education programs for membership) and Alfred Steele Scholarship (to award college scholarships) Funds are Strictly Voluntary and are not deductible as a charitable contribution but may be deductible as an ordinary and necessary business expense.

** Contributions to the ASPE Research Foundation are Strictly Voluntary and are tax deductible as a charitable contribution.

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REMIT MEMBERSHIP DUES WITH APPLICATION

| Member Type | Amount | Amount Due (Enter Amount) |
|---|--------|------------------------------|
| <input type="checkbox"/> Full | \$ 190 | \$ _____ |
| <input type="checkbox"/> Associate | \$ 170 | \$ _____ |
| <input type="checkbox"/> Affiliate | \$ 190 | \$ _____ |
| <input type="checkbox"/> Special | \$ 190 | \$ _____ |
| <input type="checkbox"/> Governmental | \$ 190 | \$ _____ |
| <input type="checkbox"/> Student | \$ 30 | \$ _____ |
| <input type="checkbox"/> PEDH CD & Book | \$ 50 | \$ _____ |
| <input type="checkbox"/> ASPE Alfred Steele Scholarship Fund* | \$ 25 | \$ _____ |
| <input type="checkbox"/> ASPE Education Program Fund* | \$ 25 | \$ _____ |
| <input type="checkbox"/> ASPE Research Foundation** | \$ 25 | \$ _____ |

TOTAL AMOUNT DUE \$ _____

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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 Engineer Magazine: Members immediately begin receiving *Plumbing Engineer* magazine. This monthly 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 within 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 62 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.

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) CPD certification: two (2) years. Dues: \$190.

Associate Member: Professionals engaged in plumbing design as consultants or engineers with fewer than eight years of industry experience. Dues: \$170.

Affiliate Member: Any individual involved in the production or marketing of plumbing products. Dues: \$190.

Retired Member: Any retired member with ten (10) years of continuous membership in the Society who has reached the age of sixty (60) years and is no longer active in the profession. Members in this category will not receive Plumbing Engineering Design Handbook materials and shall pay substantially reduced annual dues. Dues: \$40.

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: \$190.

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: \$190.

Student Member: Any individual attending a recognized university, college, community college, vocational, or technical trade school full time or part time in a curriculum related to plumbing design. Student Members are considered to be an introductory level to the Society. Student membership shall be limited to five (5) years after which time the membership shall be upgraded to an applicable membership classification as deemed appropriate by the Society. Other member classifications shall not be permitted to downgrade to a Student Member classification. Dues: \$30.



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