

January

ASPE RICHMOND PRESIDENT'S LETTER

Dear Fellow ASPE Members,

Happy New Year!!! I hope you had some quality time during the holidays, were able to catch up with friends and family and are now ready to tackle 2016.

I would like to thank everyone who attended our December meeting. Special thanks to our speaker Tony Myers – Grundfos District Sales Manager, and all of our tabletop sponsors. I hope everybody liked the new location at Defazio's Catering. I received positive feedback from many of you at the meeting so the Board decided to have the remaining meetings of the 2015–16 season at this location. This choice means a much nicer, more welcoming room to everybody, better quality lunch etc., however these improvements came with a \$5 price increase for a total cost of \$20 to attend. I believe the benefits that we get are well worth the extra \$5/person.

Our next meeting topic on Wednesday January 13th is “Non-Chemical Water Disinfection – New Technologies” presented by Jesse Rodriguez with Aqua Treatment Solutions. Otto Sales and Aqua Treatment Solutions are sponsoring this event so it will be free to attend for all engineers, designers and contractors.

Please let me know if you would like to nominate anybody for the Richard L. Clark Mentoring Award. If you would like to nominate somebody please send me an email at istvanm@ccrd.com no later than January 30th.

On February 4th we are organizing a “Bowling For Bonafe” fundraising event for our former chapter president, Wes Bonafe. Please see more details in the next two pages from the event organizer, Robert Grubbs. Please join us for an evening of fun and fellowship for a great fund-raising cause.

I hope to see you all at the February meeting.

Istvan Godri Martis, CPD, GPD

President

ASPE Richmond Chapter



ASPE RICHMOND CHAPTER NEWSLETTER

ASPE RICHMOND'S VICE PRESIDENT MEMBERSHIP LETTER

Dear ASPE members,

If you're reading this, at some point in your life, you've crossed paths with Wes Bonafe'. If you haven't heard, Wes has had some great health struggles recently, which are summarized on the GoFundMe page put together by his son:

<https://www.gofundme.com/HelpAudrey-Wesley>

The Richmond Chapter of ASPE is putting together a bowling fund raiser to help support Wes's cause. Please find attached a flyer with all the pertinent information. We're shooting for 10 teams, though the more the merrier, of course!

Please let me know ASAP if you can pledge to put a group together. The costs and availability will depend on the amount of teams we get!

PLEASE pass this around to anyone you think would be interested. You can find the event flyer on the next page.

Let me know if you have questions! See you on the lanes!

Robert V. Grubbs, PE, CPD, LEED BD+C

Tel: 804.553.6862

rgrubbs@syska.com

ASPE RICHMOND CHAPTER NEWSLETTER



ASPE Richmond Proudly Presents:

BOWLING FOR BONAFAE'



Our former chapter president, fellow engineer, and good friend Wes Bonafe' is facing many medical challenges, and could really use our support during this trying time. Join us for an evening of fun and fellowship for a great fund-raising cause!

Where: AMF Schrader Lanes - 8037 Shrader Rd., Richmond, VA 23294

When: 6pm to 8pm Thursday, February 4th, 2016

- 6:00pm Arrival/check-in (with full team) *Rules flyer provided*, Lane assignment and welcome
- 6:30pm Bowling start
- 8:00pm(ish) Leader board and awarding of prizes, etc...



COST: \$50 per person, teams should be between 4 – 6 people.

WE NEED PLEDGES OF TEAMS!

We need to know the number of teams, in order to reserve the correct number of lanes, and maximize the amount of money we can collect and donate to Wes's family.



Please send this form, along with your payment to:

Rob Grubbs
Syska Hennessy
8001 Villa Park Drive, Building C1, 4th floor
Richmond, VA 23228
Pledged Teams due by Thursday, January 21st.

Team Name: _____

Captain: _____ Captain's Email: _____

Name: _____ Name: _____

Name: _____ Name: _____

Name: _____ Name: _____

SPONSORSHIPS ARE AVAILABLE! And will be used to award prizes to the winning team, and 2nd and 3rd place if we get enough sponsorships! Sponsors will be recognized repeatedly the night of the event.

Circle one: 'Spare' level sponsor: **\$100** 'Strike' level sponsor: **\$200** 'Turkey' level sponsor: **\$300**

To read more of Wes's story, and/or make a donation, see <https://www.gofundme.com/HelpAudrey-Wesley>

Questions?: Contact Rob Grubbs at 370-8181 or rgrubbs@syska.com

ASPE RICHMOND CHAPTER NEWSLETTER

LOCAL CAREER OPPORTUNITIES

H&A is currently seeking a dynamic **Senior Plumbing Designer, Plumbing Designer, Plumbing Engineer and a Senior Mechanical Designer** in our **Glen Allen, VA** or **Hampton Roads, VA** offices that shares our corporate vision, mission and values. We are looking for the best in the industry to join our dedicated team at Hankins & Anderson as we work together toward fulfilling our mission of Building a More Secure World. We work on some of the most secure and state-of-the-art facilities all around the world. If you'd like to be a part of that, we'd like to consider you for a position. Hankins & Anderson (H&A) is a multi-discipline, full-service architecture and engineering firm with offices in Richmond, Woodbridge, and Virginia Beach, VA. Our core focus is the design of secure, mission-critical, specialty facilities. With over 300 international projects completed in 154 countries, H&A offers the opportunity to join a team of innovative thinkers, including many of the industry's most talented individuals. At H&A, we're committed to creating a friendly, yet challenging environment, offering competitive benefits and talent development through training and growth opportunities.

To learn more about H&A and to apply for current opportunities, please visit <http://www.ha-inc.com>.

Employer maintains a drug-free workplace!
EOE, M/F, D/V

Senior Plumbing Designer

H&A is currently seeking a dynamic **Senior Plumbing Designer** that shares our corporate vision, mission and values. The Senior Designer will serve as the lead technical representative for his or her projects and will be responsible for the design of plumbing systems such as sanitary, storm and water systems. The position will also include design of compressed air systems, water treatment systems, medical and/or lab gas systems; perform field investigations and write technical reports. The ideal candidate will have demonstrated technical skill in designing complex plumbing systems, calculating flow requirements, and selecting equipment with limited guidance.

Minimum Qualifications:

- 10+ years of experience in designing plumbing for government, commercial, institutional, industrial, or healthcare industries.
- Strong knowledge of International Plumbing Code (current and past versions) as well as understanding of additional design codes and specification requirements.
- High School graduate or equivalent.
- Excellent drafting with AutoCAD MEP (using 3-D) and/or Revit MEP.
- U.S. Citizenship

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- Ability to obtain a government security clearance.

Preferred:

- Demonstrated proficiency with Revit MEP.
- CIPE or CPD Registration
- LEED AP Certification
- Projects highlighting water conservation and high-efficiency production of DHW
- Associate's degree in Mechanical Engineering, MET, or related field.

Other Required Knowledge, Skills and Abilities:

- Proactive self-starter, diligent and hard working.
- Strong written and verbal communications skills.
- Excellent organization and time management skills.
- Ability to work under pressure and strict timelines, and to thrive in a fast-paced environment.
- Able to effectively prioritize multiple tasks.
- Effective working individually and within team environments.

Plumbing Designer

H&A is currently seeking a dynamic **Plumbing Designer** that shares our corporate vision, mission and values. The Designer will serve as an integral part of the plumbing production efforts with design responsibilities such as sanitary, storm and water systems design as well as rainwater harvesting and gray water systems design. Additional design opportunities on compressed air systems, water treatment systems and lab gas systems may also be included. The ideal candidate will be a high producing member of the team, comfortable designing through all phases of construction projects from early concept design, able to calculate system flow requirements and review of construction-phase submittals.

Requirements:

- 5+ years of experience in designing plumbing systems for government, institutional, commercial, healthcare or industrial projects.
- Specific knowledge of plumbing systems including sizing systems in accordance with code.
- Familiarity with International Plumbing Code as well as a basic understanding of additional design codes.
- Excellent drafting with AutoCAD MEP (using 3-D) and/or Revit MEP.
- High school graduate or equivalent
- U.S. Citizenship
- The ability to obtain a government security clearance

Preferred:

ASPE RICHMOND CHAPTER NEWSLETTER

- Demonstrated proficiency with Revit MEP.
- CIPE or CPD Registration
- LEED AP Certification
- Projects experience with water conservation and high-efficiency production of DHW
- Associate's degree in Mechanical Engineering, MET, or related field.

Other Required Knowledge, Skills and Abilities:

- Proactive self-starter, diligent and hard working.
- Strong written and verbal communications skills.
- Excellent organization and time management skills.
- Ability to work under pressure and strict timelines, and to thrive in a fast-paced environment.
- Able to effectively prioritize multiple tasks.
- Effective working individually and within team environments.

Plumbing Engineer

H&A is currently seeking a dynamic **Plumbing Engineer II** that shares our corporate vision, mission and values. This position will exercise independent judgment to convert system design concepts into specific layouts by interpreting information set forth in basis of design as well as information gathered from users, other consultants, field surveys and code research. The position will also include design of compressed air systems, water treatment systems, medical and/or lab gas systems; perform field investigations and write technical reports. The ideal candidate will have demonstrated technical skill in designing complex plumbing systems, calculating flow requirements, and selecting equipment with limited guidance.

Minimum Qualifications:

- Bachelor's degree in Mechanical Engineering or MET.
- 5+ years' experience designing plumbing systems in technically sophisticated facilities.
- Proficiency with systems selection and load analysis.
- Proficiency with AutoCAD MEP and/or Revit MEP.
- Understanding of applicable design codes and specification requirements.
- U.S. Citizenship
- Ability to obtain a government security clearance.

Preferred Qualifications:

- PE License or ability to become licensed.
- CIPE or CPD Registration

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- Proficiency with Microsoft Excel.
- Projects highlighting water conservation and high-efficiency production of DHW.
- Knowledge of Trane Trace commercial load calculation program.
- Significant construction observation experience to understand HVAC systems installation.
- Expertise in computer operation for engineering design programs (i.e. Revit MEP, AutoCAD, Navisworks).

Other Required Knowledge, Skills and Abilities:

- Proactive self-starter, diligent and hard working.
- Strong written and verbal communications skills.
- Excellent organization and time management skills.
- Ability to work under pressure and strict timelines, and to thrive in a fast-paced environment.
- Able to effectively prioritize multiple tasks.
- Effective working individually and within team environments.

Senior Mechanical Engineer

H&A is currently seeking a dynamic **Senior Mechanical Engineer** that shares our corporate vision, mission and values. The Senior Engineer will provide overall project engineering leadership on specific projects, within the mechanical discipline, and is responsible for developing and presenting engineering solutions to meet client requirements and leading the team in implementing the solution.

The ideal candidate will have demonstrated technical skills in designing large and complex HVAC systems and components, conducting HVAC load calculations, energy studies, and the selection of fan, pump, & other major equipment. The ideal candidate will also have demonstrated interpersonal skills through experience interfacing with clients, engineers, architects and others of varying technical abilities, and must be able to work effectively within a team environment.

Minimum Qualifications:

- Bachelor's degree in Mechanical Engineering, Architectural Engineering or MET.
- 10+ years of experience designing HVAC building systems.
- Registered PE.
- Ability to manage multiple team members across multiple projects.
- Proficiency with AutoCAD MEP (using 3-D) and/or Revit MEP.
- Proficiency with Trane Trace (or commercial equivalent) for load calculation.
- Excellent analytical and written skills.
- Willingness to travel.
- U.S. Citizenship.

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- Ability to obtain a government security clearance.

Preferred:

- Complex project experience.
- Commissioning or Retro-Commissioning experience.
- Significant experience with Revit MEP and Navisworks.
- LEED AP or other Sustainable Design designation(s).
- Proficient with Microsoft Excel for complex calculations.

Other Required Knowledge, Skills and Abilities:

- Proactive self-starter, diligent and hard working.
- Strong written and verbal communications skills.
- Excellent organization and time management skills.
- Ability to work under pressure and strict timelines, and to thrive in a fast-paced environment.
- Able to effectively prioritize multiple tasks.
- Effective working individually and within team environments.

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GRUNDFOS 

NewAge Epoxy Soil Pipe

Durable. Dependable. Affordable.



High quality coatings for years of service!

This product information sheet will thoroughly explain the coating process, use and applications for NewAge epoxy coated cast iron soil pipe. The cured epoxy is stable, tough, and resistant to corrosive chemicals. Epoxies are excellent surface coatings, inert to chemicals and high temperatures, adhere well to cast iron resulting in a very long life for our NewAge Epoxy system.

There is a difference between paint and epoxy coatings. Paint is a liquid that dries to form a thin colored layer when it is spread on a surface. Epoxies are a class of thermosetting polymers. Two part epoxies are combined with a curing agent that when mixed reacts to form a complex group of linking monomers.

While epoxy coated cast iron is relatively new to the United States, it has been used extensively throughout the world for many years. Epoxy coated pipe endures effluent chemical combinations found in waste systems today. NewAge epoxy pipe complies with ASTM standards

and EN-877.

Along with standard storm drainage and DWV applications epoxy coated cast iron is intended to be used in excessive corrosive conditions between 2-12pH. The epoxy coating builds upon the excellent service and long life that cast

iron already provides.

Epoxy coatings outperform oxidized asphalt pipe coatings and emulsified asphalt fitting coatings.



There has been misinformation stated in our industry that epoxy coatings are volatile and hazardous in the United States, when in fact many epoxy coatings are manufactured in the United States and their emissions, VOC (Volatile Organic Compounds) and HAP

(Hazardous Air Pollutants) are regulated and are well within safe limits set forth by the EPA. This information is included on manufacturers' MSDS files which ASTM and CISPI standards mandate be made available. Epoxy coatings are low in VOC.

MEMBERSHIP APPLICATION
(Please Print or Type)



AMERICAN SOCIETY OF PLUMBING ENGINEERS

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INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED.

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

E-mail (required) Business E-mail Cell Phone

BUSINESS: Organization Name Your Title Phone Fax

Street Address City State ZIP

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)	Firm Name and Address	Class* (see below)	Title	Description of Work	Degree of Responsibility
From	To				

*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) _____

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.

CD-ROM SOFTCOVER

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 \$ _____

Payment Information:

Enclosed is my check payable to ASPE.
Please charge my: Visa, MasterCard Discover American Express

Card # _____

Exp Date: _____

Signature: _____

Date: _____ Telephone: _____



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, educational 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.