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APRIL 2023

TOPIC: UNDERSTANDING HEAT PUMP WATER HEATERS

PRESENTER: AARON SIEGEL - BRADFORD WHITE

**WHEN: WED., APRIL 12th
11:45 am - 1:30 pm**

WHERE: VIA ZOOM MEETING @
<https://moseleyarch.zoom.us/j/88384992951>
(highlight web address then right click & select Go To...)

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jlandis@moseleyarchitects.com

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ASPE Young Professionals Chapter Liaison

Eric Geisendaffer - Bay Associates
eric@bayassociates.com

GREETINGS FROM THE PRESIDENT

President's Message...

Only two more meetings left before we wrap up our 2022-2023 fiscal season! We are certainly looking for help this upcoming season with various open positions to be filled on our Richmond Chapter Board. If you are interested, or would like more information about these positions, please reach out.

We are continuing to book our next fiscal season chapter technical meetings (2023-2024), so if you or anyone you know would like to get on the schedule to present to our chapter please let me know asap. Spots are filling up!

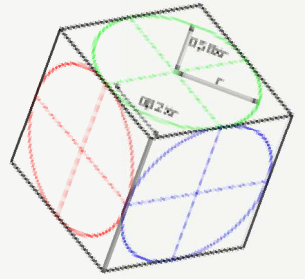
*I look forward to seeing everyone for the virtual monthly meeting, **tomorrow, Wednesday the 12th.** If you need the virtual zoom meeting invitation please let me know and I'll get it to you as soon as possible.*

As always, if you have any questions, comments or concerns, please do not hesitate to reach out to me or anyone on the board.



**JOSHUA H. LANDIS, CPD
PRESIDENT, ASPE RICHMOND CHAPTER**

TECHNICAL SCHEDULE



Presentation Lineup

- **May 10**
 - **Specifying for Safety: Emergency Eyewash & Shower Equipment**
 - (Lesemann Inc.)
- **June - August**
 - Mid-season break
 - Resume meetings September 13, 2023

VP MEMBERSHIP - ROB GRUBBS

It's never too late to join ASPE! The monthly meetings are just one of the advantages to becoming a member. Current members, please encourage your colleague's to attend our monthly meetings and consider joining the ASPE family. Visit <https://www.aspe.org/join> for more information.



WELCOME!

No new members for this edition. Continue asking your colleagues about joining our ASPE family!

LET'S CELEBRATE!



BIRTHDAYS

Tina Capece	4/12
Eric Geisendaffer	4/22
Eric Scott	4/23
Hunter Ellmaker	4/24

ANNIVERSARIES

Rob Grubbs	4/10/2000
John Cutright	4/20/2014

AYP RICHMOND - ERIC GEISENDAFFER

April 2023



**ASPE
YOUNG
PROFESSIONALS**

REGION 1

NEWSLETTER

Nikita Patel
Baltimore

Roger Schultz
Blue Ridge

Amy Gebhardt
Boston

Mike Jacobsen
Connecticut

Jacob Otto
Hampton Roads

Tara Dollinger
Long Island

David Charbonneau
Montreal

Daniel Blatto
New York City

Jacob Schrager
Philadelphia

Eric Geisendaffer
Richmond

Patrick Dwyer
Washington D.C.

AYP Liaisons

Hey Young Professionals!

ASPE Young Professionals (AYP) is dedicated to the needs of Plumbing Engineers and Designers 35 years old and younger. Your local ASPE Chapters have been busy organizing exciting opportunities designed to help you excel in your career, including:

- » Partnerships with other associations
- » Social and networking events
- » Educational offerings
- » Mentoring programs
- » And more!

We will have our first Region 1 lunch and learn in February, be on the lookout for more information and sign up information.

INDUSTRY OPPORTUNITIES

Plumbing Designer/Engineer

Charlotte, North Carolina

Moseley Architects is currently seeking a full-time Plumbing Designer/ Engineer to be an integral member of our team in our Charlotte, North Carolina office. If you're ready to make a difference, and you meet the following criteria, we want to hear from you.

Location: Charlotte, North Carolina

Experience

- 3+ years of plumbing engineering design experience preferably with large institutional or commercial projects from schematic design through construction administration.
- A four-year engineering degree from an accredited college or university, or equivalent experience is preferred but is not required.

Responsibilities

- Experience with calculations, design, layout and specifications of commercial and institutional plumbing systems.
- Good working knowledge of the International Plumbing Code.
- Strong communication skills are essential, along with the ability to work effectively within an AE environment as an effective member of multi-discipline project teams.
- Ability to successfully handle multiple projects simultaneously in a deadline-driven environment with minimal oversight.
- Excellent organizational skills with the ability to provide strict attention to detail and be a good troubleshooter and problem solver who works well under pressure with a can-do attitude.

Required Skills and Software Proficiencies

- Ability to work in a collaborative environment to meet specific deadlines
- A good working knowledge of REVIT is preferred.
- Microsoft Office Suite

A valid, unrestricted driver's license and driving record, as deemed acceptable by our firm's liability insurance carrier, must be presented, and maintained.

To apply, please submit your cover letter, targeted résumé, and references online at <http://www.moseleyarchitects.com/career/> or via mail at 3200 Norfolk Street, Richmond, VA 23230, Attn: Human Resources.

Benefits

Moseley Architects provides competitive salaries and a comprehensive benefits package for all full-time employees, including:

- Employer-paid health insurance
- Employer-paid basic life insurance
- Dental Insurance
- Vision Insurance
- Pet Insurance
- Whole and Term life insurance
- Health FSA/Dependent Care FSA
- Telemedicine services
- Payments of qualifying professional licenses/dues
- Short-term and long-term disability insurance
- 401 (k) with employer match
- Paid Parental Leave
- Paid annual/sick/personal day leave
- Hybrid work model (when applicable)
- Wellness programs

INDUSTRY OPPORTUNITIES

Plumbing Designer/Engineer

Raleigh, North Carolina

Moseley Architects is currently seeking a full-time Plumbing Designer/ Engineer to be an integral member of our team in our Raleigh, North Carolina office. If you're ready to make a difference, and you meet the following criteria, we want to hear from you.

Location: Raleigh, North Carolina

Experience

- 3+ years of plumbing engineering design experience preferably with large institutional or commercial projects from schematic design through construction administration.
- A four-year engineering degree from an accredited college or university, or equivalent experience is preferred but is not required.

Responsibilities

- Experience with calculations, design, layout and specifications of commercial and institutional plumbing systems.
- Good working knowledge of the International Plumbing Code.
- Strong communication skills are essential, along with the ability to work effectively within an AE environment as an effective member of multi-discipline project teams.
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- Employer-paid basic life insurance
- Dental Insurance
- Vision Insurance
- Pet Insurance
- Whole and Term life insurance
- Health FSA/Dependent Care FSA
- Telemedicine services
- Payments of qualifying professional licenses/dues
- Short-term and long-term disability insurance
- 401 (k) with employer match
- Paid Parental Leave
- Paid annual/sick/personal day leave
- Hybrid work model (when applicable)
- Wellness programs

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The NEW toilet from Sloan features Centriflo technology that delivers a more powerful flush. The sleek bowl design without rim holes provides a surge of water that makes a vigorous water cyclone that clears and cleans the bowl with every flush. Available in 1.1gpf, 1.28gpf, and 1.6gpf for ultra-high efficiency options. The 17" elongated rim is ADA-compliant, making it ideal for a wide range of applications. Get all the features of a one-piece look with the benefits of a two-piece toilet!



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Self-diagnosticDigital electronic control with 2-line LCD displayProgrammable temperature setpointEasy setup/easy error codingUpon power failure, holds last set temperature to avoid thermal shock

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	Proton 1.0	Proton 2.0	Proton 2.5	Proton 3.0
Simple and intuitive user commissioning and setup	•	•	•	•
Alarms for when unit maintenance is required	•	•	•	•
User programmable set point range between 65 °F and 180 °F	•	•	•	•
Automatic hot/cold water shutoff upon cold/hot water inlet supply failure	•	•	•	•
Valve controls at time of no use: 0.0 GPM*	•	•	•	•
Single valves available in 1" to 3" valve outlet sizes	•	•	•	•
Manifold assemblies available in up to 6" valve outlet sizes	•	•	•	•
Enhanced controller with programmable disinfection mode		•	•	•
Three additional temperature probes (inlet hot, inletcold, return temp.)		+	+	•
Five relay contacts that switch on during alarm states		+	+	+
Remote alerts to assist Maintenance and Service Personnel		+	+	+
Loss of power alert		+	+	+
Broken temperature probe alert		+	+	+
"Out of range" temperature alert ($\pm 10^{\circ}\text{F}$)		+	+	+
Motor connectivity and operation alert		+	+	+
Service required @90% full shuttle movement alert		+	+	+
Enhanced controller with BACnet MS/TP connection			•	•
Enhanced controller with Wi-Fi				•

*When properly installed near the hot water source with a continuously operating recirculation pump

• Standard
+ Optional



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Available in:

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- 1" inlet - 1 1/4" outlet valve assembly
- 1 1/4" inlet - 1 1/2" outlet valve assembly
- 2" inlet - 2" outlet valve assembly
- 3" inlet - 3" outlet valve assembly



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Additional sizes available
Control box also for use with
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- ✓ 150, 200, and 300 models available with or without servicable check/stop valves
- ✓ All assemblies available with optional bronze ball valves
- ✓ All assemblies available with any Proton Series control box

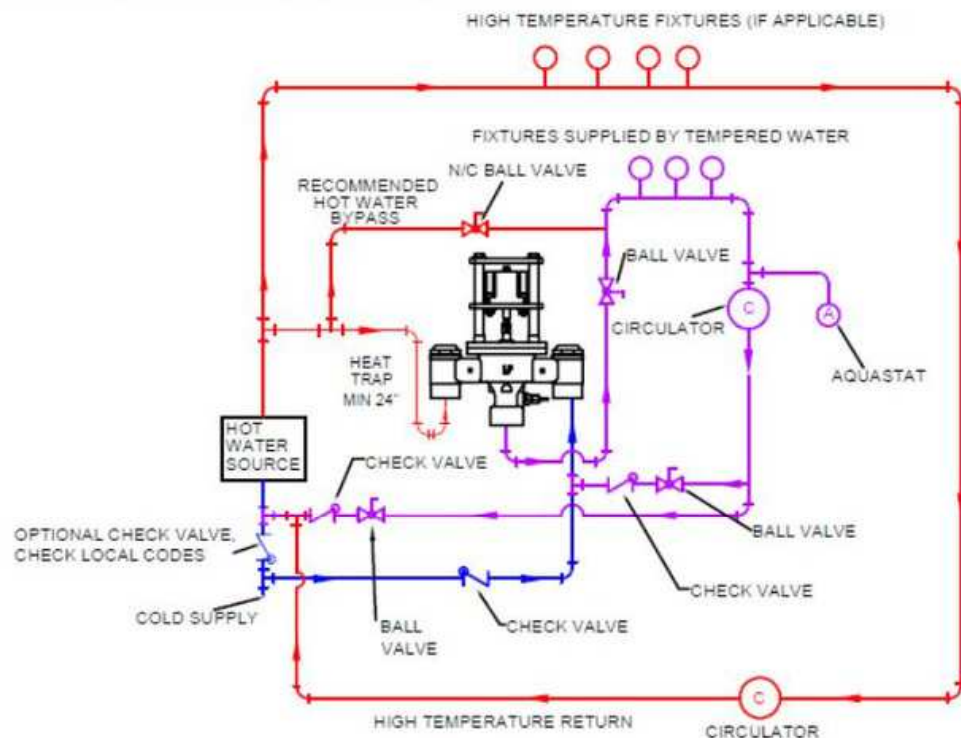
Flows & Capacities

MODEL	IN	OUT	MIN. FLOW GPM	PRESSURE DROP										
				5	10	15	20	25	30	35	40	45	50	PSI
				L/MIN	0.3	0.7	0.97	1.4	1.7	2.1	2.4	2.8	3.1	3.4
PNV-100-LF	3/4" 19.1 mm	1" 25.4 mm	0.25*	17	25	28	32	36	39	43	45	48	51	GPM
			0.95*	64	95	106	121	136	148	163	170	182	193	L/MIN
PNV-125-LF	1" 25.4 mm	1-1/4" 31.6 mm	0.25*	40	56	66	77	86	95	104	109	114	120	GPM
			0.95*	151	212	250	291	326	360	394	413	432	454	L/MIN
PNV-150-LF	1-1/4" 31.6 mm	1-1/2" 38.1 mm	0.25*	50	72	86	100	115	122	136	140	158	165	GPM
			0.95*	189	273	326	379	435	462	515	530	598	625	L/MIN
PNV-200-LF	2" 50.8 mm	2" 50.8 mm	0.25*	80	115	130	147	165	173	189	198	215	226	GPM
			0.95*	303	435	492	556	625	655	715	750	814	856	L/MIN
PNV-300-LF	3" 76.2 mm	3" 76.2 mm	0.25*	97	135	163	191	213	235	262	288	296	303	GPM
			0.95*	366	510	616	722	805	888	990	1089	1119	1145	L/MIN
PNV-150-LF-2PS	2" 50.8 mm	3" 76.2 mm	0.25*	100	144	177	200	222	244	262	280	305	330	GPM
			0.95*	378	544	669	758	839	922	990	1058	1153	1247	L/MIN
PNV-200-LF-2PS	3" 76.2 mm	4" 102 mm	0.25*	160	230	262	294	320	346	371	396	424	451	GPM
			0.95*	605	896	990	1111	1210	1308	1402	1497	1603	1709	L/MIN
PNV-300-LF-2PS	4" 102mm	5" 127 mm	0.25*	194	270	326	382	432	470	523	576	596	606	GPM
			0.95*	733	1021	1232	1444	1633	1777	1977	2177	2253	2291	L/MIN
PNV-200-LF-3PS	4" 102 mm	4" 102 mm	0.25*	240	345	390	441	495	519	567	594	645	678	GPM
			0.95*	908	1306	1476	1669	1874	1965	2146	2249	2442	2567	L/MIN
PNV-300-LF-3PS	5" 127 mm	6" 152 mm	0.25*	291	405	489	573	639	705	785	864	887	909	GPM
			0.95*	1100	1531	1848	2166	2415	2665	2967	3266	3353	3436	L/MIN
VALVE ASSEMBLY(S) ARE ASSE STANDARD 1017 LISTED ALL VALVES ASSEMBLY(S) ARE 3RD PARTY CERTIFIED TO BE LEAD-FREE				MAXIMUM FLOW CAPACITY										
*WHEN INSTALLED NEAR HOT WATER SOURCE AND WITH A PROPERLY SIZED, CONTINUOUSLY OPERATING RECIRCULATION PUMP														

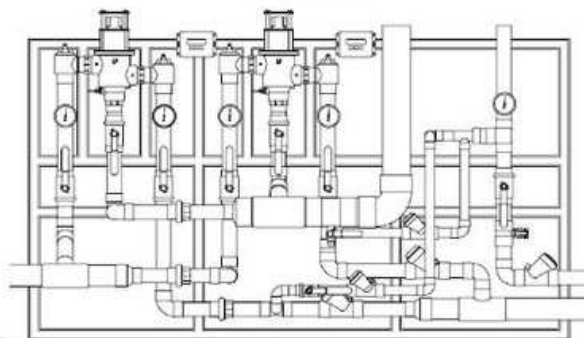
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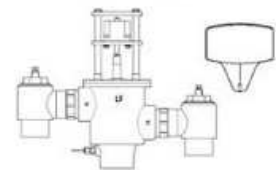
Leonard Digital Valves use Piping Method "W-D", an economical and environmentally friendly recirculation loop



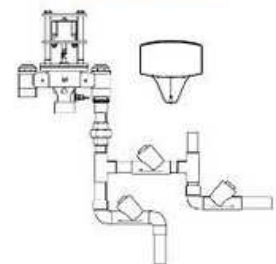
Megatron-PNV-200-2PS-LF-LC
Proton Megatron



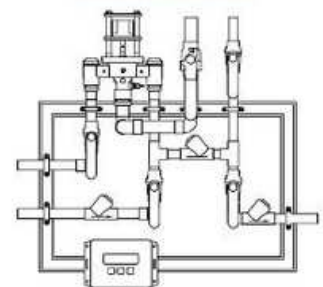
PNV-200-LF
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Full Page Newsletter (per season)

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Non-Member \$450

Half Page Newsletter (per season)

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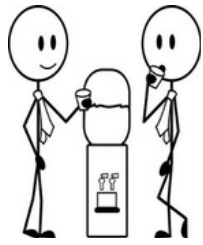
Business Card Newsletter (per season)

ASPE Member \$75

Non-Member \$150

TALK AROUND THE WATER COOLER...

Check-out these sites for interesting and educational topics & tools to stay up to date!



ASPEPipeline
News for the Plumbing System Resilient Industry

1. Registration Opens Soon!

Are you getting excited about the 2023 ASPE Tech Symposium? The industry's top manufacturers have sold out the Product Show floor, our Education Committee is planning an exciting Technical Education Program, and ASPE Young Professionals will be hosting another hands-on Leadership Academy. Start planning your trip today at aspe.org/2023-tech-symposium.



2. PHCC Releases 1st Quarter 2023 Contractor Confidence Index Report

Plumbing-Heating-Cooling Contractors are feeling cautiously optimistic, according to a new report from the PHCC — National Association: the Contractor Confidence Index (CCI) by the PHCC Business Intelligence Department. The PHCC CCI is based on a quarterly survey of PHCC members designed to take the pulse of the plumbing, heating, and cooling market. Looking ahead, 73% of PHCC respondents are anticipating increased cost of doing business (parts, materials, labor), and most of those are worried about an impending recession, as well as continued challenges finding qualified employees and technicians..

PHCC Contractor Confidence Index
Plumbing: Quarterly



3. PEWG Makes Strides to Include a Plumbing Option in the PE Exam

ASPE's PEWG (Professional Engineer Working Group) is pleased to announce that 275 PEs recently participated in the plumbing portion of a survey NCEES conducted to explore the option of including a PE exam for plumbing/piping within the Mechanical Engineering suite of exams. To learn more about the progress of this initiative, visit [ASPE Pipeline](https://aspe.org).



BE SURE TO CHECKOUT THESE COLUMNS FOUND IN PIPELINE EXCLUSIVES SECTION:

[HTTPS://WWW.ASPE.ORG/PIPELINE/CATEGORY/PIPELINE-EXCLUSIVES/](https://www.aspe.org/pipeline/category/pipeline-exclusives/)



IMPROVE JOBSITE EFFICIENCIES WITH PRVS

Jim LeStage explains how new PRV technology eliminates the need for a parallel or series system, so a second PRV downstream isn't needed.



IS THERE VALUE IN VALUE ENGINEERING?

In this new Pipeline Exclusive, the authors take a look at factors to consider when looking at piping as a potential VE item to ensure that acceptance does not result in de-value engineering of the project.

EDUCATION STATION



REMINDER! ASPE revamped their learning platform!! The new site is education.aspe.org. All educational programs and articles have transitioned over to the new site now. If you are looking to earn CEU's and/or enhance your skills and knowledge then this is the site for you! Once in the site Sign in (top right) using your ASPE Connect credentials. If you have not activated your ASPE Connect credentials, go to this link to reset your ASPE Connect password: <https://connect.aspe.org>.

GET YOUR MEDGAS TRAINING THIS JUN - REGISTRATION IS OPEN!

We are pleased to announce that our next MedGas Workshop will be held June 8–11, 2023, at Rinnai America Corp. in Peachtree City, Georgia. If you are seeking to sit for the ASSE 6060: Medical Gas Systems Designer personal certification exam or just want to learn more about medical gas systems to enhance your career, this workshop is for you! Visit aspe.org to reserve your spot.



SFPE ANNOUNCES FIRST 2023 REVIEW COURSE FOR PE FIRE PROTECTION EXAM

The Society of Fire Protection Engineers (SFPE), announces the opening of registration for its first 2023 Principles and Practice of Engineering (PE) Fire Protection Exam Review Course. "The SFPE PE Exam Review Course focuses on the fundamentals of each topic area of fire protection engineering while preparing attendees to think critically, adapt to the exam, and be successful Professional Engineers," stated Stephen Dale, Chair, SFPE PE Exam Review Subcommittee. Additional information is available at sfpe.org/2023peexamreview.



WATTS TO HOST ASPE-ACCREDITED WEBINAR

Watts has announced "Pressure Management for Water Loss Control in Public Water Systems," an ASPE-accredited webinar worth 0.1 CEU. On Tuesday, April 25, 2023, at 12 p.m. EDT, participants will learn how managing pressure in public water systems both improves water efficiency and mitigates water losses. Attendees will also learn how active management of pressure in public water systems (PWS) helps meet service needs while extending asset life and reducing instances of infrastructure failure. Through actively managing pressure, a PWS is able to address the EPA's Intervention step for real water losses.



ASPE'S BOOK OF THE MONTH CONTINUES WITH THE DIGITAL EDITION OF [ARCSA/ASPE/ANSI 63-2020: RAINWATER CATCHMENT SYSTEMS](#).

THROUGH APRIL 30, 2023, YOU CAN PURCHASE THE DIGITAL VERSION FOR **25% OFF** THE REGULAR MEMBER PRICE. JUST ENTER COUPON CODE **EARTHDAY** WHEN YOU CHECK OUT.