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QUAKER CITY CLIMATE

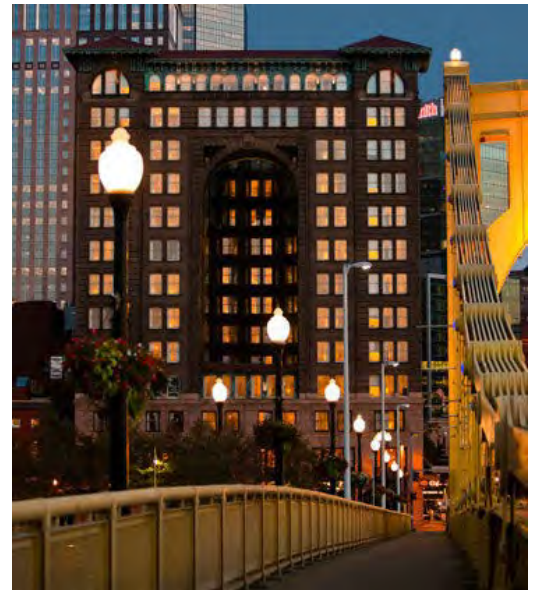


INVITES YOU TO
ASHRAE REGION III CRC 2018
AUGUST 16, 17, AND 18

Renaissance Pittsburgh
1076th Street
Pittsburgh, PA 15222
504-985-5900

[Click here](#) to register.

[Click here](#) to make a hotel
reservation before July 22
at \$169 per night.



Schedule of Events

Thursday, August 16

Technical Sessions & Caucus

Friday, August 17

Business Meeting & Welcome Reception

At the Senator John Heinz History Center

Saturday, August 18

Training & Awards Luncheon

Mark your calendar!

YEA Soccer Night - Friday, June 8, 2018

See [Page 4](#) for more details.

2017-2018

[President](#)

Jeff Crozier, PE, CEM, LEED AP

[President-Elect](#)

Mike Radio, PE, CEM, BEMP, LEED AP

[Vice President](#)

Michael Calabrese, PE, CEM, LEED AP

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[Young Engineers in ASHRAE](#)

Dan Brown

[Public Relations](#)

Casey Younkins

[Grassroot Government Activities](#)

Edward Decker

[Golf Outing Director](#)

Tim Reinking

[Honors and Awards Committee](#)

Eric Feinschil

[PRESIDENT'S MESSAGE](#)

Hi ASHRAE Community,

Our last monthly meeting was held a couple weeks ago at the AIA Center of Architecture. We were fortunate to have Scott Kelly, Stephen Finkelman, and David Salamon speak about Passive Buildings. Our presenters discussed many interesting aspects of design process involved in designing this type of buildings. Additional information can be found at <http://www.phius.org> or <https://greenbuildingunited.org>.

While our yearly meetings are complete for this, we hope to see many of our YEA members at the YEA Soccer Night on June 8, 2018 for a fun night.

Thanks again to everyone who assisted in running the chapter this year. I look forward to seeing everyone at meetings next year and what Mike Radio, ASHRAE Chapter President for 2018-2019, has planned for us.

Jeff Crozier, PE, CEM, LEED AP
Philadelphia Chapter President
c021@ashrae.net

2018-2019 ASHRAE Philadelphia Chapter Board of Governors Slate

President – Mike Radio
President Elect – Mike Calabrese
Vice President – Tim Reinking
Treasurer – Eric Feinschil
Secretary – Judd Vail
Senior Governor – Jeff Crozier
Governor – Dan Brown
Governor – Mike Magee
Governor – Sean Hughes



[Click here](#) for info!

Philadelphia Chapter Golf Outing

On Monday, May 14 we held the annual Philadelphia ASHRAE Chapter golf outing at DuPont Country Club in Wilmington, DE. Once again, we were lucky to have one of the few dry days of the week. There were over 120 attendees and over \$4,000 was raised for ASHRAE Research. First place was awarded to the team of Chase Lockard, Mike Peet, Bryan Smallwood and Scott Brewer. We have learned that DuPont will remain a golf course under its new ownership and due to the success we have had there, we are looking forward to being back next year.



PHILADELPHIA CHAPTER PROGRAMS CALENDAR 2017-2018

Date	Location	Topic	Theme
6/8/2018	Talen Energy Stadium	YEA Soccer Night	

Program calendar is tentative and subject to change. Please refer to [ASHRAE Philadelphia Website](#) for up to date information.

Advance registration and pre-payment are required before the meetings.

We need your attendance!

If we are below our guaranteed level for attendees at our meetings, our treasury could be negatively effected. Our programs are designed around the membership's input and we all need to support these meetings to maintain a strong/informed association. We hope to see you at our next meeting. Please come out and support our Chapter!



YEA Soccer Night Philadelphia Union vs. Toronto FC

Friday, June 8, 2018
5:00 PM to 10:00 PM

Talen Energy Stadium
(formerly PPL Park)

1 Stadium Drive
Chester, PA 19013
www.philadelphiaunion.com

Philadelphia Chapter ASHRAE invites all members 35 and under to a night of fun with the Philadelphia Union. Tickets are limited and are \$15 for YEA members, student members, and guests.

Join us at 5:00 PM to socialize and tailgate before the game as well as secure your tickets. Meeting location will be Lot C. The game begins at 8:00 PM.

Contact Dan Brown at c021yea@ashrae.net with questions.



Tickets are limited!

Check the website at www.ashraephilly.org for online registration available soon!

Please submit articles highlighting novel HVAC technologies to Chapter Technology Transfer Committee Chair Judd Vail (c021cttc@ashrae.net) for consideration in future newsletters.

PVC – Is it suitable for venting high efficiency gas fired appliances?

This “white paper” is intended to provide technical information substantiating the position that venting many of today’s high efficiency, gas-fired, hot water heaters and boilers with common PVC (Polyvinyl Chloride) piping products may not be a good idea.

While PVC pipes and fittings are economical and therefore serve as an appealing, low cost method of creating a venting system, there are genuine risks involved in its use for these applications. The variety of potential health and safety risks that one assumes when using PVC should make one think long and hard as to whether the short term reward is worth the long term risk. Quite frankly PVC systems offer little or no factor of safety in these applications.

History of PVC as a venting system

Ever since ABS, PVC, CPVC or other commonly available plastic piping systems began to be used for venting specific high efficiency gas fired warm air furnaces, many users have assumed the relative factor of safety they provide is rather substantial or at least adequate. We would caution that such may not be the case for all applications.

While furnace manufacturers have been approving the use of PVC systems with many of their gas fired warm air furnaces for close to 30 years and experience seems to be positive (with very few problems), the history of the use of ABS, PVC and / or CPVC plastic vents on high efficiency water heaters and boilers is considerably shorter and the experience has not been nearly as good.

In order to better understand the situation, one needs to first understand something about plastic piping and venting systems in general, how they are evaluated (by the safety certification agencies) for use in venting various appliances, how the different appliance types and technologies differ and the consequences of same over the service life of an appliance and its venting system.

PVC piping systems:

PVC pipe and fittings are the most commonly used plastic piping for high efficiency appliance venting in North America. They have been around for decades, are most often used for sanitary plumbing applications at temperatures relatively close to or minimally above ambient and are produced per an ASTM product standard that describes the chemical (material) composition, dimensions, minimum material properties, etc. PVC pipe and fittings are joined in the field via use of a “solvent welding” technique whereby the plastic parts become chemically fused together to form an extremely strong bond – assuming everything is done properly in terms of cleaning, preparation, curing, etc.

PVC piping systems, like any plastics, have a certain range of temperatures and pressures in which they are capable of performing best and safely, providing a long and successful service life. While the internal pressures they experience in the venting applications rarely if ever approach any limits, the temperatures to which they are subjected do – for many boilers and water heaters - often approach (and occasionally exceed) upper limits for what is considered safe exposure.

Environmental Stress Cracking - If and when PVC or other plastics begin to reach the end of their service life they often become more brittle and easier to crack or fracture. This process, known as “Environmental Stress Cracking”

[\(click here to read the entire article\)](#)

Factory Tour at ThermOmegaTech®

The manufacturer of CircuitSolver®

BBQ Lunch provided by



The ASPE Philadelphia Chapter is invited to see American manufacturing at its finest. ThermOmegaTech® is vertically integrated – designing, machining, assembling and testing/inspecting over 95% of our products on site. Come visit us for a good old fashioned American afternoon of BBQ and manufacturing.

When: Thursday, June 14th
12pm until 3pm

Where: ThermOmegaTech
353 Ivyland Road
Warminster, PA 18974

There are a limited number of spots so please RSVP to:
LaurenB@thermomegatech.com and davidcsmith01@gmail.com
RSVP by May 31st

Safety Glasses are required for the Factory Tour.



May Meeting Photos



2017-2018 Philadelphia Chapter President Jeff Crozier accepts his President's Award from 2018-2019 Philadelphia Chapter President Mike Radio.

Jeff Crozier (second from left) with May meeting speakers (from left to right) David Salamon, Stephen Finkelman and Scott Kelly.



The May meeting was Past Presidents' Night. We welcomed to the meeting (from left to right) Keith Cockerham, Marvin Ginsburg, Mike Witkowski, Jeff Crozier, Jeff Gilbeaux, Ashley Lester, Bill Hart and Steve Ridenour.



Forum on Architecture + Design October 3-5, 2018

Hosted by AIA Philadelphia

<https://www.aiaphiladelphiaorg/forum-architecture-design>

What is Forum on Architecture + Design?

The Forum on Architecture + Design is the newly rebranded educational and expo event that is replacing the previous Design on the Delaware conference. The Forum is focused on curating multidisciplinary educational content for designers, civic leaders, product manufacturers, technology providers, and real estate developers - all the industries that contribute to shaping our built environment.

The Forum will offer:

- over 30 accredited continuing education programs and tours,
- compelling keynote sessions featuring nationally/internationally recognized industry leaders,
- a three-day expo, and
- several opportunities to network and socialize with leaders in the building and design professions.

Now accepting program submissions!

To review program requirements and submit a program for the 2018 Forum on Architecture + Design, please [click here](#).

Sponsorships are available!

[Click here](#) to download the 2018 Forum on Architecture + Design Sponsorship and Exhibit Opportunities Packet.

If you have any questions, please feel free to reach out to Member Services & Events Manager, Julianne Foley, at juli@aiaphila.org.



The Philadelphia Chapter
of the
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Refrigerating and Air
Conditioning Engineers, Inc.

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Visit
our web site at:

www.ashraephilly.org

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authorization. The Chapter does
not speak or act for the Society.
Any member with material to
submit for inclusion in the
Climate can send the information
to:

Hope Silverman
P 610-971-2169
hope@mmco1.com

Material can include letters to the
editor, member news, upcoming
events, comments on chapter
programs or issues, etc.

Membership Advancement

If you are currently an ASHRAE Associate Member, becoming a full Member is easier than you think! The following count toward the required **12 points** to advance to full membership status. You must update your ASHRAE online biography and send an email to membership@ashrae.org to advance.

Non-accredited degree = 4 points

Accredited degree = 6 points

PE = 4 points

Industry experience = 1 point/year

Save the Date!

SMCA's Engineers' Night
October 4, 2018
Warwick Hotel
Philadelphia, PA

Have a safe and fun summer!

Our meetings and newsletters will
resume in September.

