ASHRAE Philadelphia Chapter

February 2016
Volume 51, Issue 6



Quaker City Climate

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COSTS

Fees are based on online reservations and prepayment.

Philadelphia Chapter Members:
$30

ASHRAE Members - Non-Chapter Members:
$40

Non- ASHRAE Member:
$40

Life Member:
No Charge

Young Engineers (35 & under):
$25

Students:
$10

Thursday, February 11, 2016

SMACNA's Phenolic Duct Construction Standard

presented by

Steven Watson

SMACNA's Project Manager, Technical Resources

(see page 4 for more information)

5:00 PM to 6:00 PM	Social Hour/Cash Bar
6:00 PM to 7:00 PM	Dinner
7:00 PM to 8:00 PM	Presentation
8:00 PM to 9:00 PM	YEA Social

This is a joint meeting with SMCA and Student Night and YEA Night.

Click here to Register

There will be a YEA Social following the dinner meeting.
If you are 35 years old or under, stick around after the meeting for time hanging out and playing pool with other young engineers.

LOCATION

Dave and Buster's
325 North Columbus Blvd.
Philadelphia, PA 19106
215-413-1951

For Directions: click here
Parking: $12 ($5 drink coupon)

2015-2016

President
Ashley Lester, PE, LEED AP

President-Elect
Casey Younkins, PE

Vice President
Jeff Crozier, PE, CEM, LEED AP

Treasurer
Mike Radio, PE, CEM, BEMP, LEED AP

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Research Promotion Chair
Gary Debes

Basic School Coordinator
James Lill, PE

Refrigeration
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Membership Promotion Chair
Michael Calabrese, PE, CEM, LEED AP

Student Activities Chair
Erik App

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Chapter Historian
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Young Engineers in ASHRAE
Jeffrey Pisarek, PE

Public Relations
Mike Witkowski, PE

Grassroot Government Activities
Edward Decker

Golf Outing Director
Tim Reinking

Honors and Awards Committee
Dan Brown

President's Message

The ASHRAE Philadelphia Chapter is off to a good start in 2016! I hope everyone who attended the Flyers game social event had a great time and enjoyed the win!

This month's dinner meeting is a joint meeting with SMCA and is also our Student and YEA Night. The meeting will be held at Dave and Buster's and will be featuring a presentation by Steven Watson about "SMACNA's Phenolic Duct Construction Standard". As part of Student Night, both ASHRAE and SMCA will be awarding scholarships to local university students in our field. After the meeting, if you are 35 years old or under, the pool tables will be open for a time hanging out and playing pool with other young engineers. I hope everyone can make it!

Also this month is the Delaware Valley Engineers' Week from February 19th to 27th. There are lots of events planned from the Awards Luncheon on February 19th to a Young Engineer's Social on Tuesday, February 23rd. For more information, please go to http://www.dvewc.org/.

Ashley Lester, PE, LEED AP
Philadelphia Chapter President
c021@ashrae.net



Save the Date !!

Philadelphia Chapter ASHRAE
Golf Outing

Monday, May 16, 2016
DuPont Country Club
Wilmington, DE

Shotgun start will be at 12:30 pm.
Online registration and full outing details to follow.

Grassroots Government Advocacy Committee Announcements

Hearings are currently taking place in Harrisburg on **HB 635**, which will change the Uniform Building Code review cycle from 3 years to 6 years. Please read the Bill by clicking here and let the Board members know your opinions one way or another.

Please remember government advocacy is a grassroots committee.
You as members need to take action to shape your industry / career.

The State of New Jersey just adopted their new State building codes. Below is a link to a list of their codes.

http://www.nj.gov/dca/divisions/codes/codreg/

Also, the Committee is looking for buildings that have earned a rating in the ASHRAE Building Energy Quotient (bEQ) Building Energy Labeling Program. If anyone is currently utilizing, or plans to utilize, this program to evaluate a building's potential energy, please contact Edward Decker (edward.a.decker@gmail.com).

YEA Scholarship

We are asking that working professionals nominate young engineers at your firms for a YEA scholarship. These individuals should have shown outstanding performance in the HVAC&R industry and show an active involvement and interest in ASHRAE. The nomination form may be downloaded here. The winner will be announced at a future ASHRAE meeting. Nominations should be sent to Jeffrey Pisarek at c021yea@ashrae.net.

YEA
Young Engineers in ASHRAE

ACE MENTOR PROGRAM
ARCHITECTURE • CONSTRUCTION • ENGINEERING

Don't miss our latest news
@ACEMentorEPA

Save the Date – May 11, 2016

15th Annual Scholarship Breakfast & Awards Program

Networking, breakfast, and fundraising to support the ACE Mentor Program Eastern PA Affiliate.

Contact Tiffany Millner, AIA, NOMA | ACE Eastern PA Affiliate Director
easternpa@acementor.org | 215.820.8929



Future City Philadelphia

One outreach program of the National Engineers' Week is the Future City competition. Teams of middle school students simulate their vision of a city of a future, develop an essay and an abstract, build a tabletop model and make a 7-minute presentation in a regional competition. Each team consists of an engineer/mentor, a teacher and three students.

There were 43 middle school entries in the 2016 Philadelphia regional competition, which was held January 30 at Archbishop Carroll High School in Radnor, PA.

Lionville Middle School was the regional competition winner this year. They will advance to the national competition in Washington, DC during Engineers' Week in February. The ASHRAE Philadelphia Chapter is a bronze-level sponsor of the program and awards the Best Indoor Environment Award to the team which incorporates an innovative solution to controlling the indoor environment.

The intent of the program is to steer young students toward engineering by associating the profession with an enjoyable competition. The students also learn presentation, writing and team-building skills.

The competition needs volunteers to sustain the effort on an ongoing basis; please check their website at www.futurecityphilly.org for additional pictures and volunteer opportunities.

February Meeting Information

"SMACNA's Phenolic Duct Construction Standard"

Description:

SMACNA's Phenolic Duct Construction Standard provides basic phenolic duct fabrication and installation standards that sheet metal contractors, code officials and design engineers will find useful. Phenolic duct is made using foam insulation that is manufactured into rigid panels with aluminum facings on both sides of the panel. The resulting ductwork is non-ferrous, pre-insulated and light weight.

Speaker Bio:

Steven Gary Watson Jr. is a Project Manager in SMACNA's Technical Resources Department. His responsibilities include working with the Technical Resources team to provide assistance to members in interpreting the association's publications, as well as assisting in the review and development of technical publications.

Prior to joining SMACNA, Steven was a SEEK mentor for the engineering program Summer Engineering Experience for Kids (SEEK), where he managed a classroom of elementary students. He taught the students engineering concepts, designs and coached them through engineering competitions.

He also is a member of ASHRAE and during his senior year, he competed in the 2014 Student Design Competition as a senior design project. Steven graduated with a bachelor's of science degree in mechanical engineering from Temple University, where he was a member of the ASHRAE Student Chapter.

PHILADELPHIA CHAPTER PROGRAMS CALENDAR 2015-2016

Date	Location	Topic	Theme
2/11/2016	Dave & Buster's	SMACNA's Phenolic Duct Construction Standard By Steve Watson, SMACNA	Student Night with SMCA and YEA
3/10/2016	Fisher's Tudor House	Trade Show	
4/14/2016	Dave and Buster's	Transforming Existing Buildings Into High Performance Facilities by Jim Newman, Newman Consulting Group	Students and Membership
5/12/2016	Dave and Buster's	TBD	Past President's Night
5/16/2016	DuPont Country Club	Golf Outing	

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!

ASHRAE Philadelphia Chapter

The Philadelphia Chapter of ASHRAE would like to invite your company to take part in our Product Show on **Thursday, March 10, 2016**.

The show will be held as part of our regular monthly meeting, as always. However, there will not be a presentation or sit-down dinner so that the focus will be entirely on our vendors.

Place: Fisher's Tudor House
1858 Street Road
Bensalem, PA 19020

Times:

Set-up:	4:00pm - 5:00pm
Exhibit:	5:00pm - 8:00pm
Tear-down:	must be completed by 9:00pm

Heavy hors d'oeuvres and a cash bar will be available during exhibit hours from 5:00pm to 8:00pm.

Donation: $300 (includes one 8 foot skirted table and registration for up to two staff members, which includes two drink tickets per person)
(Please see the enclosed payment form.)

Please Note:

Registration for any additional staff members is $10 per person. This includes 2 drink tickets per person.

Tickets may be purchased in advance with the enclosed form or online on our chapter web site at **www.ashraephilly.org**.

Minimal electricity will be available for lights or other equipment requiring power. Please reserve early for a wall location that will have power.

The cash bar and hors d'oeuvres table will be set up in the same room as the exhibits. This will allow for maximum exposure to the product show.

Any questions, please contact: Hope Silverman
Phone 610-971-2169 / Email hope@mmco1.com

PAYMENT MUST BE RECEIVED BY MARCH 1, 2016
OR YOUR TABLE WILL BE ASSIGNED TO ANOTHER COMPANY.

Do you have any giveaways ($100 or more)
that you would like advertised to attendees?
If so, please email hope@mmco1.com with the details.

ASHRAE PHILADELPHIA CHAPTER
Tabletop Show
March 10, 2016

Company Name: _____

Contact Person: _____

Phone: _____ Email: _____

Tabletop Fee: _____ tables x $300 = _____
(includes registration for up to 2 people and 2 drink tickets per person)

Additional Registrations: _____ people x $10 = _____
(includes 2 drink tickets per person)

TOTAL DUE = _____

Names of Attendees: _____

_____

_____

_____ Please check here if you will need electricity. There will be a limited number of tables with access to electricity. These tables will be assigned on a first come, first served basis.

Payment By: Check _____ VISA _____ MasterCard _____ AmEx _____
(Payable to "Philadelphia Chapter ASHRAE")

Card Number: _____

Cardholder's Name: (please print) _____

Billing Address for Card: _____

_____

Exp. Date: _____ Signature: _____

Send payment to:
ASHRAE, 994 Old Eagle School Road, Suite 1019, Wayne, PA 19087-1866
Or Email hope@mmco1.com Or Fax 610-971-4859
PAYMENT MUST BE RECEIVED BY MARCH 1, 2016
OR YOUR TABLE WILL BE ASSIGNED TO ANOTHER COMPANY.

The Philadelphia Chapter ASHRAE
Cordially invites you and your family
to ASHRAE Region III CRC 2016
August 18, 19 & 20, 2016

The Sonesta Hotel Philadelphia
1800 Market Street
Philadelphia, PA 19103



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Thursday August 18, 2016
All Day Technical Sessions

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Friday August 19, 2016
7:00 – 10:00 PM
Welcome Party at the Reading Terminal Market

Oysters from Pearl's
Sushi Bar
Pulled Pork Sandwiches from DiNic's
Mini Cheese Steaks from Spataro's
Salad Bar from Tootsie's Salad Express
Hoagies from Salumeria
Chick Peas, Spinach & Cheese over Rice
Assorted mini pastries from Termini Bros.
Coffee and Tea

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Each Adult gets two tokens worth well drinks or beer from Molly Malloy's

****

$10 parking voucher for 11th & Arch Street Garage

For more information, go to:

http://region3.ashraeregions.org/reg_3cd.htm

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

Did you know there are free design guides available on the ASHRAE web site? The regular technical article is not the only place to get great free information each month. Take a few minutes to log on and see the variety of design guides available to download at no cost. The design guides can be located by using the link below.
https://www.ashrae.org/standards-research--technology/advanced-energy-design-guides

The Laars Heating Systems Approach to Primary/Secondary And Multiple-Boiler Systems

An Idea Whose Time Has Come

The Laars copper finned-tube boiler and the concept of primary/secondary pumping were born in America just after World War II. Both developed out of the need to solve a particular system problem. Over the years, the two concepts have proven themselves to
be a powerful team. Taken together, they give you a way to build your business by offering solid, innovative solutions to your customer's problems.

Using Primary/Secondary Techniques, You Can:

• Match the building's load for improved comfort.
• Improve system efficiency.
• Avoid flow through un-fired boilers (which can
reduce efficiency and,
• Quickly and easily retrofit any job.

Today, more than ever, the Laars boiler and the technique of primary/secondary pumping can give you, the heating professional, a real competitive edge. By applying the simple concepts in this booklet, you'll be able to offer your customers much greater control over
the comfort level of their buildings while operating at much greater system efficiency. And you'll be able to do all this with standard, offthe-shelf, easy-to-install components. You won't need any special tools. In fact, you'll probably find primary/secondary easier to work with than many of the systems you're installing now. For the heating professional who is willing to work with his head as well as his hands, this booklet offers tremendous opportunity. Read on!

An Old Problem Solved

In the days before the development of the circulating pump, hot-water heating contractors faced a problem: How could they make water flow where they needed it when the only force they had going for them was the buoyancy of the hot water?
These were the days of "gravity" hot water heat. Hot water rose because it was lighter than cold water.
But if the water found it easier to sail up a nearby riser,it would never wind its way through a radiator.
To stay competitive, most hot-water contractors wanted to work with single-pipe systems, as their
competitors, the steam contractors, were able to do. But what would make the water flow through a radiator if it were connected like the one in Figure 1.
The laws of nature said water would go straight up the riser because that's the path of least resistance.
The only way they could get it to make that turn into the
radiator was to increase the resistance along the riser. And that's exactly what the old-timers did (see Figure 2.)
They used special diverter tees which created

(click here to read the entire article)

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Visit our web site at:

www.ashraephilly.org

Republication of material contained herein is expressly forbidden without official Chapter 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.

ASHRAE Sponsors Student trip to Winter Conference

ASHRAE sponsored eight students from Drexel and Widener Universities to attended the ASHRAE Winter Conference in Orlando, FL from Saturday, January 23 through Monday, January 25, 2016. On Sunday, they attended a special student program at which ASHRAE president David Underwood spoke, and also took part in a tour of the Orange County Convention Center. On Monday, they had time to walk the Expo and meet many potential employers. Overall it was a successful trip and we look forward to sponsoring more students next year in Las Vegas!

New Philadelphia Chapter Associates and Members

Anne McAndrew
Glenn Smith
Carleton Bruce Worthy

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

The 2015-2016 Directory is Available!

The latest edition of the Directory of Associations, Consulting Firms, and Manufacturers' Representatives in the Philadelphia Area is now available. It sells for $23 each.

Send your check to ASHRAE, 994 Old Eagle School Road, Suite 1019, Wayne, PA 19087.

If you prefer to pay by credit card, please call Wendy at 610-971-2169 or email her at Wendy@mmco1.com.