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COSTS

Fees are based on online
reservations and prepayment.

Philadelphia Chapter Members:
\$30

ASHRAE Society Members -
Non-Chapter Members:
\$40

ASHRAE Life Members:
No Charge

Non- ASHRAE Member:
\$40

YEA Member (35 & under):
\$25

Students:
\$10



QUAKER CITY CLIMATE

Thursday, December 14, 2017

Breakfast Meeting

“The Future of Fighting Bacteria ”

presented by

Joseph Callahan
Ciright Companies

[Click here](#) to Register

Registration Begins: 7:00 AM

Breakfast Served: 7:30 AM

Presentation: 8:00 AM to 9:00 AM

See [page 3](#) for more information on the presentation and speaker.

LOCATION

The Union League
140 South Broad Street
Philadelphia, PA 19102
215-563-6500

For directions and parking information,
check The Union League’s web site
at www.unionleague.org.

The Union League Dress Code

Please see [page 4](#) for the dress code.

The Union League reserves the right to refuse
admittance to anyone not adhering to the dress code.

2017-2018

President

Jeff Crozier, PE, CEM, LEED AP

President-Elect

Mike Radio, PE, CEM, BEMP, LEED AP

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Public Relations

Casey Younkins

Grassroot Government Activities

Edward Decker

Golf Outing Director

Tim Reinking

Honors and Awards Committee

Eric Feinschil

PRESIDENT'S MESSAGE

I hope everyone had a fun Thanksgiving and had some time to reflect on what they are thankful for and to spend time with family and friends. The Philadelphia Chapter had the opportunity to thank Arkema, Blankin Equipment, Class Associates, Mitsubishi Electric, Phillips McDade, R.D. Bitzer and SMCA for their donations to ASHRAE Research Promotion at our November meeting.

In lieu of meeting in the city, our meeting was held at the Radisson Hotel Valley Forge in King of Prussia. Besides the room being a little difficult to find, the event turned out well. Mitchell Swann led an interesting presentation on Integrated Product Design which included a lot of discussion with the attendees. We also had a few new faces which was good to see.

Our next meeting will be a breakfast meeting at the Union League on Thursday, December 14th. Joseph Callahan will present on the Future of Fighting Bacteria and how technology can protect patients in the hospital setting. We also have the Flyers game coming up on January 25th. We will be opening up sign-ups in the near future.

Please tell us if you are willing to volunteer to help out with a committee or would like to join the board. We look forward to seeing you at future events.

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

ASHRAE 2018 Winter Conference January 20 - 24, 2018 Chicago, IL



Save the date for the
2018 ASHRAE Winter Conference & AHR Expo in Chicago!

The Winter Conference will be held January 20-24, 2018
at the Palmer House Hilton.

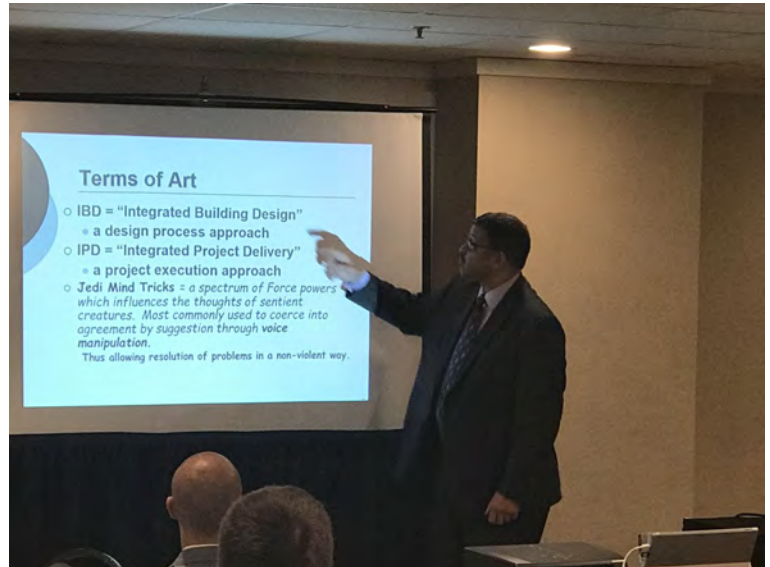
The AHR Expo will take place at the McCormick Center, January 22-24, 2018.
The 2018 Expo will host more than 2,000 exhibitors and
65,000 industry professionals.

When you register for the ASHRAE Conference,
your ASHRAE badge will give you access to the AHR Expo.

Registration is now open.

November Meeting Photo

Mitchell Swann of MDC Systems LLC
led a presentation on
“Jedi Mind Tricks - Integrated Product Design”
at the Radisson Hotel Valley Forge.



Thursday, December 14, 2017

Breakfast Meeting

“The Future of Fighting Bacteria ”

presented by

Joseph Callahan

Ciright Companies

Mankind has been at war with bacteria since our world began. Joseph Callahan outlines the reality of this fight with bacteria, what is necessary to win this battle, and how technology can protect hospital patients.

Joseph Callahan is a Philadelphia native who has made a name for himself in technology leadership. As the current CEO of Ciright Companies, which includes Ciright Systems and Ciright Digital Media, Callahan continues grow his expertise and reputation. He also currently serves on the advisory board of the Montgomery County Redevelopment Authority and board of directors for Polonia Bank. The start of Callahan’s career came from a position as a computer programmer at Scott Paper. Since then, he has worked for companies like Johnson & Johnson and General Motors as an industrial engineer, Viewpoint Software as a pen based system developer and York International as an executive sales engineer. Callahan has also previously served on the board of the Catholic Charities of the Archdiocese of Philadelphia and the Civil War Museum of Philadelphia. A wealth of diverse experience has allowed Callahan to become an expert in information technology. He prides himself on thinking differently and asking difficult questions to get to the root of an issue and find an innovative solution. He has successfully helped organizations align their processes and goals with employee needs and incentives by revitalizing their supervisory IT platforms. In addition, Callahan works to help companies and organizations familiarize themselves with the technology that can revolutionize their business. As a thought leader, he provides assistance, education and examples to follow. Callahan currently holds two patents for content distribution platforms. He obtained a Bachelor’s Degree in science, engineering, information systems technology and marketing from Drexel University in Philadelphia.

PHILADELPHIA CHAPTER PROGRAMS CALENDAR 2017-2018

Date	Location	Topic	Theme
12/14/2017	The Union League	The Future of Fighting Bacteria by Joseph Callahan	Annual Breakfast Meeting
1/25/2018	Wells Fargo Center	Philadelphia Flyers vs. Tampa Bay Lightning	Social
2/15/2018	TBD	Fuel Cells Technology - IEEE/AEE By Geoff Slevin	Student Night and YEA
3/15/2018	Fisher's Tudor House	Trade Show	
4/12/2018	TBD	Impacts of Climate Change and Urbanization on Future Building Performance by Dr. Dru Crawley	Students and Membership
5/7/2018	TBD	AIA - Passive House	Past President's Night
5/14/2018	DuPont Country Club	Annual 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!

The Union League Dress Code

It is the intention of the Dress Code to provide a set of guidelines within which it is expected that guests will demonstrate discretion and good judgment. **The Union League reserves the right to refuse admittance to anyone not adhering to the dress code.**

Jackets are not required at breakfast. Business casual dress is permitted in the private meeting rooms.

Men: Business casual attire is defined as a collared shirt and slacks.

Women: Pants should be tailored and are acceptable when worn with a jacket or other garments which would be appropriate if worn with a skirt.

Unacceptable Attire: The following attire is never acceptable on the first or second floors of the League: jeans, denim wear, tee shirts, athletic wear, tank, halter, or jogging tops, shorts, baseball caps, sneakers, casual or beach footwear.

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

Top Ten Boiler and Combustion Safety Issues to Avoid

By John R. Puskar, P.E.

Principal and Owner of CEC Combustion Services Group

This article was originally published in the Summer 2010 National Board *BULLETIN*.

An industrial explosion from a gas piping project kills four workers in North Carolina. A boiler related explosion at a nursing home in Michigan kills five. An explosion from a power plant gas piping project in Connecticut also kills five. These tragic stories may have made national headlines, but every year hundreds more go overlooked. These incidents prove that regardless of their size or scope, when fuel systems and combustion equipment are at issue, the devastation can be massive. Many of these tragedies could have been prevented if guidelines and standards already in place were better understood and enforced.

Certainly safety in industrial plants and manufacturing facilities where fuel-fired equipment is used has dramatically improved from 100 years ago when boiler explosions and the related carnage were an almost everyday occurrence. However, incidents related to fuel systems and combustion equipment still occur far too frequently. It seems we have hit a plateau with fuel and combustion equipment safety. Maybe it's because of aging infrastructure or a lack of enforcement of existing codes and standards. Or it might be related to the economy – economic downturns often take a toll on safety, training, and maintenance dollars.

Regardless of the reasons, it doesn't have to be this way. When lives are literally at stake, the excuses don't matter. Combustion equipment safety is critical to the daily operation of all facilities and the safety of every employee. This area of safety is complicated and often misunderstood, but by taking a look at these Top-10 fuel and combustion equipment issues, you will better understand how to protect your employees from combustion-related incidents before you end up making a national headline.

1. FUEL SYSTEMS

One of the biggest issues related to natural gas explosions is that in the industrial world, people just don't understand that natural gas piping repairs are different from other piping repairs. There is an appalling lack of training and understanding on this subject. If you are in charge of maintenance crew or have any of this activity at your site – whether your own people do the work or not – you must get a copy of *NFPA 54: The National Fuel Gas Code* (www.nfpa.org) and read it cover to cover. This document describes safe gas piping and repair practices.

There are six major steps to a gas piping repair. Each of these steps can be the subject of a separate paper and hours of discussion.

Pre-repair/Planning

1. Planning
2. Isolation
3. Pre-repair purge

Making the repair

4. Pressure testing
5. Post-repair purge
6. Reintroduction and light-off (the most dangerous part)

The importance of the pre-repair/planning phases cannot be overlooked. You don't just wake up one morning and decide to do a gas piping project. There's a lot of important planning and tasks that need to take place first for the job to be safe.

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

It's that time of year again. I can't believe it's October already! The school year is off to a great start for the **Future City Competition**. To date, 46 schools have signed up and have started designing their cities of the future. A lot of them are new to the program. Last year at this time we had 40 schools registered. Looks like we are going to need as many volunteers as we can get!



Our greatest need right now is for mentors. Each school is assigned a mentor to work with the students and share their real world experiences to help them develop their future city. Just 1 or 2 hours a week can make a big difference in how students approach their project and how they start to address it. The following is a the current list of schools that need mentors:

- East Norriton Middle School -- Norristown, PA
- Esperanza -- Philadelphia, PA
- Hedgepeth Williams Middle School -- Trenton, NJ
- Keith Valley Middle School -- Horsham, PA
- Mother Teresa Regional Catholic -- King of Prussia, PA
- Murray Avenue School -- Huntingdon Valley, PA
- Resurrection Catholic School -- Cherry Hill, NJ
- Sacred Heart School -- Havertown, PA
- Southern Lehigh Middle School -- Center Valley, PA
- St Albert the Great School -- Huntington Valley, PA
- St Elizabeth Parish School -- Uwchlan, PA
- WCPA Homeschool Group -- Pleasant Mount, PA
- Windsor Christian Academy -- Uwchlan, PA

Please let me know if you are interested in being a mentor for any of the schools listed above. If you'd like to be a mentor but don't see a school in your area, send me an e-mail and I will let you know if a school registers.

Please visit our website at www.futurecityphilly.org and "Click here to sign up as a Volunteer" on the top left of the page. There you can register to be a mentor, judge, or general volunteer. We will need judges and general volunteers for the day of the competition.

Any questions please contact me via e-mail or phone. Please feel free to forward this e-mail to your friends, co-workers, and technical society members.

Karen R. McManuels, PE
Philadelphia Regional Volunteer Coordinator
volunteer2015@futurecityphilly.org

Mark your calendars!

January 21, 2018

Competition Location:

Archbishop Carroll High School

211 Matsonford Road

Radnor, PA 19087





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

994 Old Eagle School Road
Suite 1019
Wayne, PA 19087-1866
P 610-971-2169
F 610-971-4859

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.

New Philadelphia Chapter Members

New Members:

Alberto Rios

New Associates:

Mike R. Del Moore
James T. Dolan Jr.
Steve J. Luxton
Tom McGeehan
Timothy F. McGraw
Jeff Parrish

New Affiliates:

Peter R. Fenimore
Nathan Smith Ware
Mathew M. Smith

The New 2017-2018 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 Hope Silverman, ASHRAE, 994 Old Eagle School Road,
Suite 1019, Wayne, PA 19087.
If you prefer to pay by credit card,
please call Hope at 610-971-2169 or email her at hope@mmco1.com.

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