



Philadelphia Chapter

Quaker City CLIMATE

JOURNAL OF THE PHILADELPHIA CHAPTER OF THE AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS, INC.

Thursday,
December 18, 2008

Volume 44, No. 4
December 2008

Breakfast Meeting

“Condenser Water Heat Recovery”

presented by

Julian R. de Bullet
McQuay International
ASHRAE Distinguished Lecturer

7:00 am to 7:30 am
Registration

7:30 am to 8:00 am
Breakfast

8:00 am to 9:00 am
Presentation

*Please refer to the Union League
Dress Code on page 5.
Directions and parking information
are also on page 5.*

FOR RESERVATIONS

**All attendees should register online
through Cvent.**

To register please visit our NEW web site at
<http://phila.ashraechapters.org/>
or visit the Cvent Event
<http://tinyurl.com/657gxl>

LOCATION

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

Go to www.unionleagure.org
for info on parking and direction
or see page 6.

RESERVATION NOTICE

Reservations must be made
no later than 12:00 Noon
on Monday, December 15, 2008.

COST

Philadelphia Chapter Members with
online reservation and prepayment
\$30

ASHRAE Members who have not paid
Philadelphia Chapter dues with online res-
ervation and prepayment
\$35

Non-Members with
online reservation and prepayment
\$40

Young Engineers in ASHRAE
(YEA) Members with online
reservation and prepayment
\$20

Students with online reservation
and prepayment
\$10
Phone reservations
to 610-971-2169
without online registration
\$45

Walk up fees
(based on availability)
\$45

From Our President

This is the time of year to reflect on the past and look forward to the future. In this time of Thanksgiving and the holiday season I want to wish all our members the best and hope you had a good year. These are some difficult times for a lot of people but we can think of others and do our best to help those who need it.

I wanted to thank everyone who attended our November dinner meeting with speakers from Philadelphia Licenses and Inspections office. We had almost 80 guests learn about code changes, the permit process and potential pitfalls on submitting work. It was very informative.

Afterwards we had our first Young Engineers in ASHRAE (YEA) meeting hosted by Ashley Kenyon. She told me that there is a lot of interest and is planning many events for later this year.

Our next meeting is breakfast at the Union League with ASHRAE Distinguished Lecturer Julian de Bullet to discuss condenser heat recovery. It is the third week of December this year. In January we are hosting Lawrence Spielvogel, P.E. to discuss "Reasoned Responses to Natural, Accidental and International Threats". Both events promise to be lively and informative.

Jim Piscopo our Technology Transfer chair is working on technical presentations to be added this year so keep reading each newsletter for additional events.

As always we keep trying to improve our programs and we appreciate your feedback. I want you to benefit from your membership in ASHRAE and by participating in chapter activities you will find not only the chance to learn about the changes in our industry but also have a great opportunity to network.

You also have the opportunity for even greater improvement by volunteering for chapter activities or by joining a technical committee. You can help make the chapter better and help yourself in your career.

We are also still looking for contributions to ASHRAE Research; your money goes to help improve the technology for a cleaner and more energy efficient environment for us and future generations.

Jeff Gilbeaux

Jeff Gilbeaux, PE
jeff@gilbeauxassociates.com
856-988-1890

December Speaker Biography

Julian R. de Bullet
McQuay International

Julian R. de Bullet has over 30 years experience in the HVAC industry. His career has concentrated on the applied use of Chilled Water and All-Air systems as a manager of applied equipment sales and as a manager of a service/performance contracting operation.

He is the Director of Industry Relations for McQuay International, based in Washington D.C. He is responsible for assisting McQuay customers and McQuay sales representatives in HVAC&R system design and specification. He is a member of numerous industry associations concentrating on energy efficiency and responsible refrigerant use. He is a Board member of the Alliance for Responsible Atmospheric Policy (ARAP), a member of the AHRI Government Affairs Committee, International Committee and the Chiller Engineering Sub-Committee and represents McQuay International at both the Montreal Protocol and Kyoto proceedings as an NGO participant.

As ASHRAE Vice President (2001/2003), he served on the Board of Directors and the Executive Committee and was Chair of Member Council and Publishing Council. He is Past President of the National Capital Chapter and was Director and Regional Chair for ASHRAE Region III. He is an ASHRAE Distinguished Lecturer with over 200 Seminars delivered around the world with topics including "Responsible Refrigerant Use", "Sustainable HVAC Systems", "Variable Primary Flow System designs" and "90.1 and LEED". He is a voting member of TC 8.2 Centrifugal Chillers and has co-authored numerous ASHRAE Handbook chapters. He chaired the Professional Development Committee, (Responsible for the ASHRAE Educational programs), is a voting member of the Publications and Education Council and a voting member of the Society Advocacy Committee. He has co-authored ASHRAE Position Documents on Energy Efficiency, Natural Refrigerants and Ozone Depletion.

December Speaker Topic

Large buildings send a huge amount of heat energy to the atmosphere through the cooling towers. Not only is every BTU collected in the building rejected, but we also send another 25% in compressor work and accessory work. For a typically sized hospital this may equate to 4 million ton hours per year. ASHRAE Standard 90.1 allows reclaimed energy to be used for either service hot water or building heat. The "Golden Rule" of energy recovery is: "You must have an energy source at the same time you have an energy need." Today's sustainable design should, at the very least, include an analysis to consider whether this system concept can minimize the use of boiler work and, therefore, the use of fossil fuels. The necessary steps in designing successful condenser water heat recovery and the resultant benefits will be discussed in this seminar.



Julian R de Bullet is a Graduate of the London University system in England, where he obtained an Electrical Engineering degree and a Diploma in Marketing.

PHILADELPHIA CHAPTER ASHRAE 2008 - 2009 PROGRAMS

For reservations and updates, check <http://phila.ashraechapters.org/>

Date	Location	Dinner Topic	Theme	Joint Meeting
Thurs Dec 18	<i>Breakfast</i> Union League	Condenser Water Heat Recovery	Refrigeration	
Thurs Jan 8	Spaghetti Warehouse	Reasoned Responses to Natural, Accidental and International Threats		
Thurs Feb 5	Dave & Buster's	Philadelphia's Green Initiative	Student Night	SMCA
Thurs Mar 12	Fisher's Tudor House	Air and Gas Filtration	Tabletop Vendor Show / Membership	
Thurs Apr 9	Urban Outfitters	ASHRAE Scholarships & YEA	Tour	
Thurs May 14	Dave & Buster's	ASHRAE IAQ Guide	Past Presidents & History	
Monday June 1	Northampton Valley CC	Golf Outing		
Thurs June 11	Temple University	2009-2010 Planning Meeting		

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!

Corporate Sponsors Take Note

Those with corporate sponsor tickets must still make reservations for our meetings through Cvent (see link on first page). Please note that those with sponsor tickets who do not make reservations are not guaranteed entrance until all reserved seating is filled. Those reservations with sponsor tickets must have them at the time of the dinner. If you don't have them, you will have to pay the walk up rate for dinner. We cannot make arrangement for delivery of sponsor tickets at a date after the event.

Directions, Parking, and Dress Code at the Union League

From North of Philadelphia in Pennsylvania - Follow I-95 South to Exit 22. Take 676 West/Central Philadelphia Exit. Follow 676 West to the first exit, which is Broad Street/Central Philadelphia. This exit will bring you onto 15th Street. Continue on 15th Street until you see City Hall on your left. Bear left around City Hall. Make a right at the first light, which is Broad Street. Take Broad Street two blocks to Sansom Street. Make a right onto Sansom. The Midtown Parking Garage is on the right. The entrance to the Union League is directly across the street on the left. Look for the awning. This entrance should be used for The Inn at the League.

From South of Philadelphia (Philadelphia International Airport) in Pennsylvania - Follow I-95 North to Exit 22. Follow signs for 676 West/Central Philadelphia Exit. Exit to the left. Follow 676 West to the first exit which is Broad Street/Central Philadelphia. This exit will bring you onto 15th Street. Continue on 15th Street until you see City Hall on your left. Bear left around City Hall. Make a right at the first light, which is Broad Street. Take Broad Street two blocks to Sansom Street. Make a right onto Sansom. The Midtown Parking Garage is on the right. The entrance to the Union League is directly across the street on the left. Look for the awning. This entrance should be used for The Inn at the League.

From East of Philadelphia in New Jersey - Benjamin Franklin Bridge to 676 West/Central Philadelphia Exit. Get on 676 West, then take the first exit, which is Broad Street/Central Philadelphia. This exit will bring you onto 15th Street. Continue on 15th Street until you see City Hall on your left. Bear left around City Hall. Make a right at the first light, which is Broad Street. Take Broad Street two blocks to Sansom Street. Make a right onto Sansom. The Midtown Parking Garage is on the right. The entrance to the Union League is directly across the street on the left. Look for the awning. This entrance should be used for The Inn at the League.

From West of Philadelphia in Pennsylvania - Take the PA Turnpike to Exit 326, which is the Valley Forge Exit. When you exit, take 76 East to Exit 344, which is 676 East/Central Philadelphia Exit. Take the second exit, which is Broad Street/Central Philadelphia. Stay in the right hand lane as you exit. Make a right at the light, which is 15th Street. Continue on 15th Street until you see City Hall on your left. Bear left around City Hall. Make a right at the first light, which is Broad Street. Take Broad Street two blocks to Sansom Street. Make a right onto Sansom. The

Midtown Parking Garage is on the right. The entrance to the Union League is directly across the street on the left. Look for the awning. This entrance should be used for The Inn at the League.

From New Jersey Turnpike - Take Turnpike to Exit 4. Take NJ Route 73 North, follow onto NJ-90 West which becomes Betsy Ross Bridge. Exit bridge onto I-95 South to I-676 West to Central Philadelphia, and follow directions from East of Philadelphia in Pennsylvania

Union League Parking at the Midtown Garage (1415 Sansom Street)

Guest Rates

Up to 20 minutes	\$5.00
Up to 40 minutes	\$9.00
Up to 1 hour	\$13.00
Up to 1 hour and 20 minutes	\$17.00
Up to 1 hour and 40 minutes	\$21.00
Maximum: Up to 24 hours	\$26.00

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.

For men:

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

For 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, extremely casual or beach footwear.

Advanced School Notice

The Philadelphia Chapter is considering to offer an Advanced School which would build on the material in the basic school. the major component of the advanced school would be a project where the basic school information would be applied to design a complete HVAC system for a building. The course would run from October through April and meet once per week. The prerequisite knowledge of the basic school by training or experience would be needed in order to take the school. The cost of the school would \$1000.

Anyone interested in taking this school should contact Bob Finkboner at robert.finkboner@siemens.com



Board Member, Mike Witkowski, PE, was recently interviewed for an article in the Philadelphia Metro

2009 ASHRAE Winter Conference
January 24 -28
Chicago, IL

International Air-Conditioning, Heating, Re-
frigerating Exposition
(AHR Expo)
January 26 - 28, 2009
Chicago, IL

November Dinner Meeting on Philadelphia Building Codes: Review and Discussion



Jeff Gilbeaux handing out a Liberty Bell awards to George M. Altmeier, P.E. and Ralph DiPetro

2008-2009
Philadelphia Area Directory
of Associations, Consulting Firms
and Manufacturers' Representatives

On Sale Now -
Just \$23.00 each!

Send your check to:
Philadelphia Chapter ASHRAE
993 Old Eagle School Road
Suite 1019
Wayne, PA 19087-1866

Chapter Technology Award Competition 2009

The purpose of the Technology Awards Program is to recognize members for innovative designs, communicate that technology to other members, and highlight achievements to other professionals.

The Chapter Technology Transfer Committee is asking for applications for the 2009 Chapter Level competition to be submitted by March 6, 2009. Awards for the Chapter Level competition will be given out during the May 14, 2009 Chapter Meeting for the following categories:

- Commercial Buildings, New and Existing
- Institutional Buildings, New and Existing
- Health Care Facilities, New and Existing
- Industrial Facilities or Processes, New and Existing
- Public Assembly Facilities, New and Existing
- Residential Buildings, New and Existing (Single Family and Multi-Family)
- Alternative or Renewable Energy Use

Entries will be judged on energy efficiency, indoor air quality and thermal comfort, innovation, operation and maintenance, cost effectiveness, environmental impact and quality of presentation.

The process for the ASHRAE Technology Awards starts right here at the Chapter level. Winners of the Chapter Competition will be sent to the Regional CTTC Chair for judging in the Regional Technology Award Competition. Regional winners will then be asked to submit a long form application for the Society Technology Award Competition. Society level awards will be given out at the Winter Meeting scheduled to be held January 23-27, 2010 in Orlando, Florida. Winners of the Society Competition will also be featured in the ASHRAE Journal.

For more information on the Technology Award Program, including application forms please visit the CTTC section of the chapter website at <http://phila.ashraechapters.org/cttc.htm>

James Piscopo, PE
CTTC Chair
jpiscopo@aeceng.net

Get to Know Our Corporate Sponsors



Associated Engineering Consultants, Inc. (AEC, Inc.) was founded to provide top quality engineering services in a client-focused and project-centered practice.

Launched in 1996 by David C. Brandt, P.E., NCEES, (former president of brr, inc. Consulting Engineers), AEC, Inc. is an engineering firm offering Civil, Structural, HVAC, Plumbing, Electrical, and Fire Protection disciplines.

Our owner and architectural clients are concentrated in the higher education, healthcare, pharmaceutical, commercial, light industrial, and multi-family markets. AEC, Inc.'s partners and project managers have broad backgrounds and diverse experience, giving them the perspective to anticipate challenges early in the design approach, and the ability to manage interdisciplinary coordination effectively.

A skilled staff of 20 Registered Professional Engineers, LEED accredited professionals, and graduate technicians enables AEC, Inc. to manage larger projects efficiently. Our networked computer system allows each engineering discipline to be coordinated through a Project Manager assigned to your project. A Design Engineer spearheads each discipline, monitoring scope parameters and insuring timely completion. All staff members participate in development of the design, empowering our personnel to simplify the flow of information and decision-making.

At AEC, Inc., we are committed to providing our clients with outstanding engineering services, delivered with seamless coordination and excellent client/engineer communication. We believe our high level of repeat business illustrates our performance, and renews our commitment on each and every project.

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AFFILIATE MEMBERSHIP GRADE

For an Annual Dues of \$40, Applicants under Age 30 can Join ASHRAE at this introductory membership level. Membership tenure in this grade is limited to three (3) years.

Affiliate Members Benefits Affiliate Members receive monthly issues of the ASHRAE Journal and Insights Newsletter. The annual handbook is not a benefit of this grade.

Qualifications

An Affiliate Member shall have the same qualifications as an Associate Member. They are:

1. Experience in technical matters or in design, operation, or maintenance in heating, refrigerating, air conditioning, or ventilating fields.
2. An interest in the advancement of the Society's aims.
3. Possess sufficient qualifications to cooperate with heating, refrigerating, air conditioning, or ventilating engineers in the advancement of relating to heating, refrigerating, air conditioning, or ventilating engineering and its application.

Limitations

- You do not receive ASHRAE Handbook with membership. You do not receive *ASHRAE Insights*. You get a one-time discount (20% off) on all Handbook items.
- You can serve on Chapter committees, but cannot hold office or vote at Chapter, Regional or Society level.

Contact For Receiving Application

Go to www.ashrae.org and click on "Join" in the upper right corner. This will take you to a page describing each membership grade, its benefits and qualifications, and a link to membership application forms.

MEMBERSHIP ADVANCEMENT!

Any Associate Member meeting the following requirement can apply for Advancement to the more entitling Member grade. By ASHRAE society definition:

A member shall have the equivalent of twelve society-approved years of experience composed of an approved combination of: (a) completed education beyond high school, (b) work experience, and (c) professional engineering or related registration or license issued by a legally authorized body.

All technical and scientific education shall be based on curricula approved by the Board of Directors.

Approved engineering curricula shall be equivalent to the accredited by the Accreditation Board of Engineering and Technology in the United States of America or the Canadian Engineering Accreditation Board. Scientific education in fields other than engineering shall be from a college or university course of study that has been accredited by an organization charged with monitoring standards of performance. *Society approved years of experience shall be credited as follows:*

One and one-half years of credit for each year of completed education for graduates of approved technical curricula. One year of credit for each year of education for non-graduates who have completed a least two years of approved technical curricula. One year of credit for each year of completed education for graduates of colleges or universities which do not have accreditations. Those holding associated degrees from technical institutions shall also be credited for one year for each year of education.

One year for each year of qualifying work experiences in the performance of duties in work related to ASHRAE fields of interest and shall have included research, teaching, design, contracting, engineering sales or engineering management.

Three years of credit for professional registration of license issued by a legally authorized body in engineering or related fields, the requirements of which as to education, examination, and active practice are satisfactory to the Board of Directors.

More information is available on the ASHRAE website (www.ASHRAE.org) under menu items Membership Resources...Manage Your Membership, the above definition is extracted from such application information in PDF file format. The application can also be filled interactively online. ASHRAE sends members who upgrade a \$20 gift certificate usable at the ASHRAE bookstore or towards ASHRAE membership renewal.



ASHRAE

Technology for a Better Environment

1791 Tullie Circle, NE • Atlanta, GA 30329-2305 USA • Tel 404.636.8400 • Fax 404.321.5478 • <http://www.ashrae.org>

Gary C. Debes
Region III ECC Chair

Reply to: 998 Caln Meetinghouse Road
Coatesville, PA 19320
☎ 484-886-7400
Fax 484-694-0487
E-mail gary.debes@mail.ashrae.org

November 14, 2008

Dear Region III Members:

I have the pleasure of inviting you to attend the **Region III Winter Meeting Dinner**. It will be held on Monday, January 26, 2009 at The Berghoff, 17 West Adams Street, Chicago, Illinois 60603.
☎ (312) 427-3170.

You are cordially invited to join other members from Region III for an evening of delicious food, drinks and fellowship.

The Berghoff is just 1 block from the Palmer House Hilton. We will meet at the restaurant bar for cash bar.

Dress is coat and tie

The schedule for the evening has been arranged as follows:

- | | |
|---------|---|
| 6:00 PM | Meet at the Palmer House Hilton lobby to take a leisurely stroll to the restaurant. |
| 6:30 PM | Arrive at The Berghoff Bar for cocktails. |
| 7:30PM | Dinner will be served. Our menu: |
| | <ul style="list-style-type: none">• Sauerbraten: Traditional marinated roast sirloin of beef served with sweet-sour gravy and mashed potatoes, <u>or</u>• Wiener Schnitzel: Breaded veal cutlet served with traditional garnishes and German fried potatoes, <u>or</u>• Broiled Filet of Salmon: Served with fresh tomato-basil relish and boiled new potatoes, <u>or</u>• Penne Pasta: Pasta with plum tomatoes, garlic, basil and romano cheese. |

Berghoff Salad and a variety of freshly baked breads and butter, are included.

Desert: Black Forrest Cake.

Iced Tea, Coffee and Soft Drinks.

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N

(continued on next page . . .)

The price for this great evening is \$50.00 per person. Please complete the reservation form below and return it to me, along with your check made payable to: "**ASHRAE REGION III**", so that I will receive it **no later than Monday, January 19, 2009.**

If you cannot mail it by that date, fax or e-mail your dinner reservation to me but, please, bring your check with you to dinner. It is really important to respond quickly; I must make firm reservations before the ASHRAE meeting begins. **THANKS !!!**

Once again, I look forward to seeing you on January 26th!!!!

Name _____	Sauerbraten _____	Quantity _____
Name _____	Wiener Schnitzel _____	Quantity _____
Name _____	Salmon Filet _____	Quantity _____
Name _____	Penne Pasta _____	Quantity _____
Total Quantity _____ X		\$50.00 = _____

NOTE: MAIL BACK OR FAX THIS RESERVATION TO GARY DEBES AT:

Gary Debes
998 Caln Meetinghouse Road
Coatesville, PA 19320
(484) 886-7400
(484) 694-0487 Fax

Please use this reservation as your receipt

Member Services

Members who would like stay on top of the **latest news from ASHRAE** may join the News Release List Serve at <http://www.ashrae.org/template/AboutLinkLanding/category/1584>.

If you or your company are hiring, please take a moment to **review the resúmes of chapter members** and students which have been posted on the chapter website at www.ashrae-phila.org/resumes.html. We will also **post your job opening** for one month. Send it to hope@mmco1.com.

Any member who wishes to **have their resumé posted on our website**, or who would like to update it, can email it in a pdf format to hope@mmco1.com. It will be posted for one month and may be renewed after that time.

Welcome New Chapter Members!

New Members for the Month of November

New Members Elected November

Mr Adam Shelly - Associate
 Bill McQuaide - Associate
 Mr Larry L Scholl Jr - Associate
 Mr Albert Silbaugh - Member

New Students Elected November

Mr Colin M Thomson-Hohl - Student
 Miss Bin Yan - Student
 Mr William Joseph Becker III - Student

Check
<http://phila.ashraechapters.org/>
for further information
on the
Philadelphia Chapter!

Please take note of our new web address

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This is your newsletter.
We welcome your input and comments.

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 American Society of Heating, Refrigerating
 and Air Conditioning Engineers, Inc.
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<http://phila.ashraechapters.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:

Matthew Trinsey
 Clive Samuels & Associates
 1 Independence Way
 Princeton, NJ 08540
 (P) 609-627-7983 (F) 609-520-0974
matthew.trinsey@emerson.com

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