



Philadelphia Chapter

# Quaker City CLIMATE

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

Thursday,  
May 14, 2009

**Volume 44, No. 9**  
**May 2009**

## **Past President's & History Display Night**

### **"Indoor Air Quality Guide: Best Practices for Design, Construction, and Commissioning"**

*Presented by*  
Dr. Andrew K. Persily

5:00-6:00 pm  
Social Hour & Cash Bar

6:00-6:30pm  
Dinner

6:30-7:45pm  
Presentation

*A Buffet style dinner will be served at this  
meeting.*

*\$8 parking available on site.  
Parking stub also includes  
a discount on first drink.*

*A YEA social event will follow the dinner  
meeting. See page 3 for more details*

## **FOR RESERVATIONS**

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

**To register please visit our NEW web site at  
<http://phila.ashraechapters.org/>**

## **LOCATION**

Dave & Buster's  
325 N Columbus Blvd # 19n  
Philadelphia, PA 19106  
(215) 413-1951

For directions visit:  
<http://www.daveandbusters.com/>

## **RESERVATION NOTICE**

Reservations must be made  
no later than 5:00 pm  
on Wednesday, May 13, 2009.

## **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 with online  
reservation and prepayment  
\$20

Students with online reservation  
\$10.00

Phone reservations  
to 610-971-2169  
without online registration  
\$45

Walk up fees  
(based on availability)  
\$45

### **From Our President**

We had great response to our physical plant tour at Urban Outfitters at the Navy Yard. I want to thank our incoming president Bill Hart for the excellent work he did in making the arrangements and I also want to thank the speakers who gave their time to talk about the work they did. It was very informative and very unique opportunity to see creative reuse of existing space and HVAC solutions to the problems of reusing and adapting the old buildings to modern use.

This month we are proud to present Dr Andrew Persily, ASHRAE Society Vice President and technical committee chair who will talk about the new ASHRAE IAQ guide. Look for further details about this topic elsewhere in the newsletter. It will be held at Dave and Busters on Delaware Avenue on May 14.

We are also honoring our past chapter presidents that evening. In addition for the first time we have invited the attendees of the ASHRAE Basic class to attend the final dinner meeting of the year.

Our planning meeting for next year will be held in June 11 at Temple University beginning at 6 PM. If you can't attend please send your thoughts our ideas for programs for next year to myself or John Pardekooper, our program chair for next year.

Our Annual Spring Golf Tournament is coming up June 1 at Northampton Country Club. I hope you can make it

Finally, I am looking for feedback from members on how we can improve our chapter and Society. Every year in August there is a regional meeting. There your chapter representatives can present any ideas that may improve society. The regional meeting this year will be held in Washington DC, hosted by the National Capitol chapter. They have done a lot of work to make this an event for all ASHRAE members. The dates are August 13, 14 and 15. Philadelphia Chapter members are welcome to attend the technical conferences offered (which are PDH accredited) and any social events which may be planned. If you want to

attend or just have some idea you think may help all ASHRAE members please let me know.

I am honored to be your chapter president this year and I want to thank all those who helped to make this a successful year. This has been a team effort and the Board of Governors and Chairs have done an outstanding job. I also want to thank our many sponsors who have supported our efforts. It was a pleasure to meet many members at our dinner meetings and hope to see you at many more.

**Jeff Gilbeaux**

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

### **May Speaker Biography**

Dr. Andrew Persily is Leader of the Indoor Air Quality and Ventilation Group, Building Environment Division at the National Institute of Standards and Technologies (NIST), Building and Fire Research Laboratory. His work includes the development and application of measurement techniques such as tracer gas to evaluate airflow and air quality characteristics in a variety of building types. He is also involved with the development and application of multi-zone airflow and contaminant dispersal models.

Dr. Persily is currently a Vice President of ASHRAE and is past chair of ASHRAE SSPC 62.1, responsible for maintaining ASHRAE's Ventilation Standard 62.1. He is a past Chair of ASTM Subcommittee E6.41 on Air Leakage and Ventilation Performance and Vice Chair of subcommittee D22.05 on Indoor Air Quality.

Dr. Persily's education includes a B.A. in Physics and Mathematics from Beloit College, 1976; M.A. in Mechanical and Aerospace Engineering from Princeton University, 1979; and a Ph.D. in Mechanical and Aerospace Engineering from Princeton University, 1982.

### **May Speaker Topic**

This project started in November 2006 and the document was to be developed over a 36 month (3 year) time line. The final result will be the Indoor Air Quality Guide: Best Practices for Design, Construction, and Commissioning for commercial and institutional buildings along with an educational outreach effort. This guidance document will assist building professionals in their efforts to improve indoor air quality (IAQ) by providing practical guidance on best practices for IAQ in all phases of building design and construction including those that affect operation and maintenance. The finished guide will include an overview document with an accompanying CD containing more detailed guidance and information. Please join us this month as Dr. Persily reviews the particulars of this new publication and how it will effect the Engineering Design Professional. Final publication is expected in late summer 2009.

### **YEA Event**

The next YEA Social will be after the ASHRAE meeting on May 14th at Dave and Busters. If you're 35 years or under, stick around after the meeting for a good time of hanging out and playing pool with other young engineers.

The first YEA Bowling Event went great! It was held at Lucky Strike in Center City and 22 young engineers came out for a fun time of food and bowling!! Del-Ren Associates sponsored the event and provided 4 Phillies tickets for the bowler with the highest score! Don't miss the next YEA Bowling Event!!



Pictures are from the Previous YEA event at Lucky Strikes

## PHILADELPHIA CHAPTER ASHRAE 2008 - 2009 PROGRAMS

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

Date	Location	Dinner Topic	Theme	Joint Meeting
Thurs Apr 9	Urban Outfitters	ASHRAE Scholarships	Tour	
Thurs May 14	Dave & Buster's	ASHRAE IAQ Guide	Past Presidents, YEA, & History Display Night	
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

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  
994 Old Eagle School Road  
Suite 1019  
Wayne, PA 19087-1866

### **What is 16-40-40?**

Every ASHRAE Student Member Should Know

Simply put, it's the best way for ASHRAE student members to continue receiving the many member benefits of ASHRAE after finishing college.

If you're about to graduate, the 16-40-40 program is designed for you to transfer your student membership for another year for only \$16. The second year is \$40. And the third year is \$40.

Bottom line: You get 3 years of valuable membership and save up to \$274. Save time, save money and continue receiving the professional benefits that will strengthen the beginning of your career.

## April Dinner Meeting Urban Outfitters Tour and ASHRAE Scholarship Night



Miss the previous meeting?

You can see the presenter's powerpoint presentation on our new website at <http://phila.ashraechapters.org/storage/presentation.htm>

### Design on the Delaware

The 2009 Design on the Delaware Regional Conference is coming to Philadelphia. The annual conference is being held on October 28th, 29th & 30th, 2009 at the Sheraton in center city. To those interested in more information visit :

<http://phila.ashraechapters.org/DOD2009.pdf>

### Advanced School Notice

The Philadelphia Chapter is looking for a coordinator and instructors for the ASHRAE Advanced Class which will begin next fall. Teaching is one night a week. We need to get these positions filled and all work coordinated immediately to prepare for the fall class. These are paid positions. All those interested please contact Bob Finkboner at [robert.finkboner@siemens.com](mailto:robert.finkboner@siemens.com)

# ASHRAE

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

## **BASIC HVAC SYSTEM DESIGN COURSE**

This is a demanding one-year course that introduces students to the fundamentals of HVAC design. Classroom activities will include lectures and problem solving sessions, supplemented by home reading and study assignments.

### **2009-2010 Course Subjects Include:**

Fundamentals and Psychometrics  
Load and Heat Transfer Fundamentals  
Load Calculations  
Pumps, Piping & Piping Systems  
Basic Steam & Boilers  
Electricity Fundamentals  
Fans, Air Distribution & Duct Design  
Refrigeration  
Controls & Instrumentation  
Equipment Selection

**The class is a great way to further, or even begin, a career in HVAC.**

Classes will meet Tuesdays and Thursdays from 6:15 PM to 8:30 PM beginning in early October and continue until the end of April. All classes will be held in Philadelphia. The Basic Class tuition is \$1,100.00, which includes all reference materials. Balance due at first course session. Please mail the application and deposit to the School Coordinator at:

To sign up or ask questions please contact:

Hope Silverman  
Hope@multiservicemgmt.com

The Philadelphia Chapter of the  
American Society of Heating, Refrigerating  
and Air Conditioning Engineers, Inc.  
994 Old Eagle School Road, Suite 1019  
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610.971.2169  
fax 610.971.4859  
<http://phila.ashraechapters.org/>

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# ***BACK BY POPULAR DEMAND!***

## **ASHRAE**

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND  
AIR-CONDITIONING ENGINEERS, INC. PHILADELPHIA CHAPTER**

### **ADVANCED HVAC SYSTEM DESIGN COURSE**

Through this challenging course, students will use architectural building backgrounds to develop a complete HVAC system. Design concepts will encompass air systems, chilled and hot water hydronic systems and equipment selections such as chillers, boilers and unitary rooftop. The schedule is a demanding one-year, 28-night course culminating in a student generated total system design. Additionally, there are plenty of out-of-class assignments to help students manage their workload.

**This course is a fantastic opportunity to develop  
the tools necessary to further an HVAC Career.**

#### **2009-2010 Course Subjects Include:**

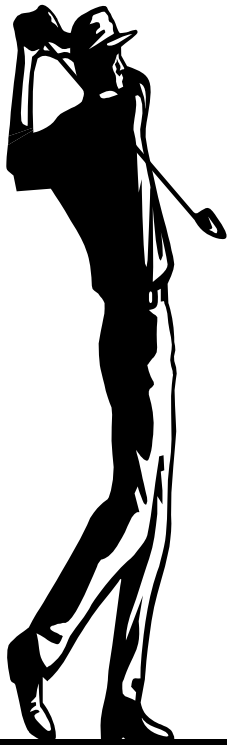
Code Evaluation  
Load Calculation  
System Evaluation & Selection  
Equipment Selection  
Layout  
Controls  
Specifications

All books and reference materials will be supplied. Classes will meet one evening each week, beginning in early September and continuing until the end of April. The location and tuition fee are still to be determined.

If you are interested in possibly enrolling in this course and would like to receive further information, please contact:

Hope Silverman  
Philadelphia Chapter of ASHRAE  
Phone 610-971-2169  
[philachapter@mail.ashrae.org](mailto:philachapter@mail.ashrae.org)

# PHILADELPHIA ASHRAE CHAPTER ANNUAL SPRING GOLF TOURNAMENT



**when:** Monday, June 1, 2009 -- 1:00 pm Shotgun  
Lunch will be provided at Noon; Dinner will be immediately after golf

**where:** Northampton Valley Country Club  
Richboro, PA (near I-95 and Newtown-Yardley Exit)

**cost:** Golf, Lunch & Dinner: \$125.00 per person

**hole sponsorships are available**

Prizes include First, Second and Third Place Awards plus Longest Drive and Closest to the Pin Awards.

*\* Scramble Format – Singles and Foursomes are welcome! \**

## REGISTER ONLINE AT

<http://guest.cvent.com/i.aspx?4W,M3,360cd095-bddd-4afd-a967-550d9f4f80fd>

**Questions? Problems? Contact Jared Johnson at  
215.886.8947 or via email [jjohnson@schillerhersh.com](mailto:jjohnson@schillerhersh.com)**

## **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](http://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 Notice**

ASHRAE is no longer accepting applications for grade advancement. To advance from associate to member, a member must update their ASHRAE bio online, and notify [membership@ashrae.org](mailto:membership@ashrae.org) they have an updated bio and wish to be considered for grade advancement. Tips for updating bios:

- i. Go to [www.ashrae.org](http://www.ashrae.org)
- ii. Login
- iii. In Member Central, Click "Update Your Bio"
- iv. Go through each of the small blue tabs to enter demographics, contact information, education, professional registration, etc. It's very easy!

## **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](http://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.

## 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 resumés of chapter members** and students which have been posted on the chapter website at [www.ashrae-phila.org/resumes.html](http://www.ashrae-phila.org/resumes.html). We will also **post your job opening** for one month. Send it to [hope@mmco1.com](mailto: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](mailto:hope@mmco1.com). It will be posted for one month and may be renewed after that time.

### Check

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

**Please take note of our new web address**

## Welcome New Chapter Members!

**New Members for the Month of February**

### New Members

Mr Brian Paul Booker - Associate  
Mr William Warren - Associate  
Mr Nick Fimiano - Associate  
Wilson Po Shing Wan Associate  
Mr Vincent Paul Lopez - Associate

Mr Ryan Wittke - Student

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## This is your newsletter.

## We welcome your input and comments.

The *Quaker City Climate*  
is published eight times annually by

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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:

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Princeton, NJ 08540  
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[matthew.trinsey@emerson.com](mailto:matthew.trinsey@emerson.com)

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