

Volume 43, No. 2
October 2007

PHILADELPHIA CHAPTER

Wednesday, October 3, 2007
SMCA'S ENGINEERS NIGHT

PROGRAM

5:00 pm
Cocktail Reception
and Vendor Displays

6:30 pm
Dinner
and Presentation

*"Design Documents:
From Concept through Construction"*

LOCATION

Grand Ballroom
The Ritz Carlton
Ten Avenue of the Arts
Philadelphia, PA 19102
215-523-8255

See page 5 for directions
and parking information.

RESERVATIONS & COST

There is no cost for ASHRAE Design Engineers as Guests of SMCA.
Respond directly to SMCA of Philadelphia by faxing the form on page 4
to 610-828-4625
or by email to jshields@smca.org
before September 27.

All other ASHRAE
Philadelphia Chapter Members
are \$30 (discounted price).
Advance registration and pre-payment are required
before September 27.
To make your reservation, call 610-971-2169 or email
philachapter@mail.ashrae.org.

Payments by check should be mailed to:
ASHRAE, 994 Old Eagle School Rd.,
Suite 1019, Wayne, PA 19087-1866.

We will accept VISA or MasterCard but there will be a 5% service fee.
Please call with your credit card number.

Quaker City CLIMATE

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

From Our President

I would like to thank everybody who was able to make it to our first 2007/2008 Regular Chapter Meeting at the Sheet Metal Workers Union Hall / Local 19. It was a very interesting and informative visit and we had great feedback from the membership. ASHRAE of Philadelphia extends its gratitude to Charlie McClure and his dedicated staff for the time and expertise shown to our membership during the tour. Charlie was kind enough to offer our membership special Saturday Sessions in balancing during the months of November and January. Our thanks to Charlie for that and we will be coordinating these sessions in the upcoming Climate.

After the Local 19 tour, the meeting moved to Dave & Buster's, where a fun time was had by all who attended. I wish to thank Jeff Gilbeaux, our Programs Chair, for the great program he organized.

Our next meeting is a combined meeting with SMCA and is held at the Ritz Carlton in Downtown Philadelphia. This is a great venue and I encourage all of our membership to attend. This meeting is sponsored and hosted by SMCA and we encourage all Engineers to register directly through SMCA. All others may register through Hope as noted in the newsletter.

Andrew O'Pella

November Meeting Preview

In November, Professor Wen of Drexel University will give a brief discussion on a new research topic - Stability and accuracy of VAV box control on low flow (ASHRAE 1353). The project aims at quantitatively evaluating relationships between the minimum controllable air flow rate for a VAV box and other impacting factors. The project will focus on three issues - the embedded air flow rate sensor is inaccurate in the low flow range; the designed minimum air flow rate could be less than the minimum controllable air flow rate for a VAV system; there is a lack of information and methods to determine the minimum controllable air flow rates for a VAV box. This will be done by systematic laboratory testing and field testing. ASHRAE project 1353 is a collaborative effort between Drexel University and Iowa Energy Center Energy Resource Station (ERS).

The November meeting will be held on November 8 at Colleen's. Watch for next month's newsletter for more information.

We Need Your Email Address!

The Quaker City Climate, the monthly newsletter of the Philadelphia Chapter of ASHRAE which is published September through May, is now distributed only by email, unless a Chapter member contacts our office and specifically asks that they continue to receive a hard copy by mail.

Don't miss the latest information on meeting dates, locations, and speakers, as well as other news of interest to engineers in the Philadelphia area!

Please email us at hope@multiservicemgmt.com to be added to our email distribution list, if you are not included already.

Check

www.ashrae-phila.org

for further information
on the
Philadelphia Chapter!

PHILADELPHIA CHAPTER ASHRAE 2007 - 2008 PROGRAMS

For reservations and updates, check www.ashrae-phila.org.

Date	Location	Pre-Dinner Topic	Dinner Topic	Theme
Wednesday October 3	Ritz Carlton	SMCA Engineers Night	Design Documents	Joint Meeting with SMCA
Thursday November 8	Colleen's	Fan Wall Technology	Standard 62.1	Donor Recognition
Thursday December 13	Union League BREAKFAST		Discussion of Ice Storage Plant	Refrigeration
Thursday January 10	Colleen's		Sustainability	Joint Meeting with DVGBC
Jan 22-24	New York City Jacob Javits Ctr	AHR Expo * (ASHRAE Winter Meeting, January 19-23)		
Wednesday February 13	TBD	HVAC design for Critical Environments	Panel Discussion: Design, Construct, Commission, Balance	Student Night Joint Meeting with SMCA
Thursday March 13	Cescaphe	Table Top Vendor Show	LEED M&V	Membership
Thursday April 10	Colleen's	Renewable Energy	HVAC for High Density Data Storage	Scholarship Night
Thursday May 8	Urban Outfitters	Tour of Physical Plant	History of ASHRAE	Past Presidents Night
Thursday June12	Temple University	2008-2009 Planning Meeting		
June	Golf Outing			

* The Philadelphia Chapter will arrange for a bus trip for the first two days of the Expo.
It will be free to chapter members. There will be a fee for those who are not chapter members.

PLEASE COPY AND POST ON YOUR BULLETIN BOARD AT WORK.

To: Philadelphia Chapter ASHRAE Members

From: SMCA of Philadelphia and Vicinity Education/Technical Committee

Subject: 2007 Engineers Night

When: Wednesday, October 3, 2007
Cocktail Reception and Vendor Display, 5:00 p.m. to 6:30 p.m.
Dinner, 6:30 p.m.

Where: The Ritz Carlton

Presentation: *"Design Documents: From Concept Through Construction"*

The Sheet Metal Contractors Association of Philadelphia and Vicinity cordially invites ASHRAE Members and Design Engineers to attend 2007 Engineers Night on Wednesday, October 3, 2007.

This year, the event will be held in the Grand Ballroom of The Ritz Carlton, Ten Avenue of the Arts, Philadelphia, PA, 215-523-8255.

A cocktail reception with vendor displays will begin at 5:00 p.m., followed by dinner at 6:30 p.m. and the evening's presentation, *"Design Documents: From Concept through Construction"*. The presentation will be a panel discussion format, moderated by Robert Wasilewski from SMACNA. We'll discuss the traditional process for producing, bidding and working with project deliverables, and explore the pros and cons of alternative project delivery methods based on Building Information Modeling and project team collaboration.

We look forward to seeing you there!

ASHRAE Members please respond through ASHRAE Philadelphia Chapter.

ASHRAE Design Engineers may respond directly to SMCA of Philadelphia by faxing this form to 610-828-4625, or by email to jshields@smca.org.

RESPONSES ARE DUE BY THURSDAY, SEPTEMBER 27, 2007.

SMCA welcomes you as our guest at Engineers Night. As this is a function with a premium cost per person, if you register and then find that you will not be able to attend, please call 610-828-4055, or email jshields@smca.org, to let us know so that your seat does not go to waste, and, so that someone else who may be on our waiting list can attend. We thank you.

Company: _____

Address: _____

Telephone: _____ Fax: _____

Email: _____

Name(s): _____

Name(s): _____

The Ritz-Carlton Philadelphia, Ten Avenue of the Arts, Philadelphia, PA 19102
215-523-8000, Fax 215-568-6445, www.ritzcarlton.com

Parking

There is valet parking at the hotel's front entrance on The Avenue of the Arts at a cost of \$25.00.

There is self parking in the following lots:

- Symphony House: On Broad between Lombard and Pine on the West side of the street
- E-Z Park: on Broad between Pine and Lombard, opposite Symphony House on East Side of block
- 5 Star Park: on Broad between Pine and Spruce next to Starbucks on East side of block
- Kimmel Center Parking: on Broad between Pine and Spruce on West side of block
- Bellevue Park Hyatt Parking: on Broad between Locust and Walnut on West side of block
- Double Tree Parking: on Broad between Spruce and Locust on East side of block
- Kinney System Parking on Broad between Walnut and Locust on East side of block

For reference, the Ritz is on the East side of the block.

Hourly and overnight rates are applicable to both valet and self-parking.

Directions

From Philadelphia and Points South:

Take I-95 north and follow signs for I-76 West.

Proceed approximately 3 miles on I-76 west to 676 East.

Follow 676 East approximately ½ mile to the Broad Street/Central Philadelphia exit.

Turn right at the top of the exit ramp onto 15th Street heading south.

Follow 15th Street for five traffic lights—you will see a tall, white building with a clock tower on your left which is City Hall.

Get into one of the left hand lanes and bear left about ¼ of the way around City Hall.

Turn right onto South Broad Street—also known as The Avenue of the Arts.

The hotel is the first building on the right as you make the turn.

From Points North:

Follow I-95 South into Philadelphia.

Exit onto 676 West and follow to the Broad Street/Central Philadelphia exit.

The exit ramp will lead to a right turn onto 15th Street heading south.

Follow 15th Street for five traffic lights—you will see a tall, white building with a clock tower on your left which is City Hall.

Get into one of the left hand lanes and bear left about ¼ of the way around City Hall.

Turn right onto South Broad Street—also known as The Avenue of the Arts.

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From Points West:

Follow the Pennsylvania Turnpike to the Valley Forge exit (old exit #24).

At this exit, take I-76 East to Central Philadelphia, approximately 15 miles.

As you enter the city, take the exit on the left to 676 East.

Follow for approximately one mile to the Broad Street/Central Philadelphia exit.

The exit ramp will lead to a right turn onto 15th Street heading south.

Follow 15th Street for five traffic lights—you will see a tall, white building with a clock tower on your left which is City Hall.

Get into one of the left hand lanes and bear left about ¼ of the way around City Hall.

Turn right onto South Broad Street—also known as The Avenue of the Arts.

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From the New Jersey Turnpike and New York:

Follow the New Jersey Turnpike south to Exit #4.

At the exit, take Route 73 North to Route 38 West.

Follow Route 38 West to Route 30 West and follow signs to the Benjamin Franklin Bridge.

Cross the bridge and take 676 West to the Broad Street/Central Philadelphia exit

The exit ramp will lead to a right turn onto 15th Street heading south.

Follow 15th Street for five traffic lights—you will see a tall, white building with a clock tower on your left which is City Hall.

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Future City Philadelphia Competition

Greetings from Future City Philadelphia! The school year is underway and so far 26 schools are signed up. Here is the current list of schools that need mentors:

- CCA Baldi Middle School, Philadelphia, PA
(Far Northeast)
- GA Stetson Middle School, West Chester, PA
- Lower Dauphin Middle School Hummelstown, PA
(Hershey area)
- Radnor Middle School, Wayne, PA
- Treddyfrin-Easttown Middle School, Berwyn, PA

Our greatest need at this stage of the competition is for mentors. We cannot stress enough how much help someone with real world experience can be to the student teams. Just 2 or 3 hours a week can make a huge difference in both the design process and what the students take from the competition. Please let me know if you are interested in working with any of the schools above, I will get you in touch with the team's teacher. If you'd like to be a mentor but don't see a school in your area, send me an e-mail and I'll keep you posted as schools register.

Please visit our website at www.futurecityphilly.org and click on Volunteer Opportunities, then On-line Volunteer Sign Up. There you can register to be a mentor, judge, or general volunteer. You can also see the complete list of registered schools. Anyone that has been involved in the competition before knows how it simply cannot be run without dedicated volunteers - so sign up now and start the year off right!

Any questions please let me know.

Thanks,

Jennifer
Philadelphia Regional Volunteer Coordinator

Jennifer Wetzel
Project Manager
University of Pennsylvania
Facilities and Real Estate Services - Design and
Construction Management
tel. 215-573-3935
fax 215-746-6606
jwetzel@pobox.upenn.edu

September Meeting at Local 19



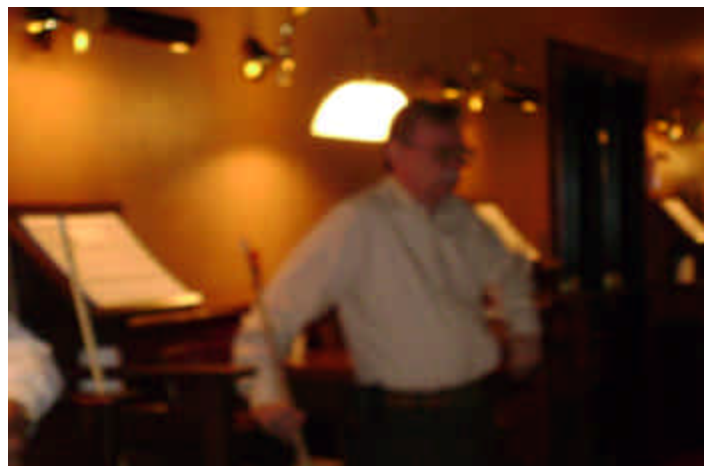
Jeff Gilbeaux, President-Elect of the Philadelphia Chapter, presents Charlie McClure of Local 19 with a Liberty Bell. Andrew O'Pella, Chapter President, stands to the right.



September Meeting at Local 19



September Meeting at Dave & Buster's



Please help the ASHRAE Research 2007-2008 Fund Drive by filling out this Donor Form and sending it to national headquarters in Atlanta this week. Have you asked your company if they have a matching gift program? Remember every dollar you donate to this worthy cause is doubled by ASHRAE Society! If you have any questions, please contact Steve Piccolo, Research Promotion Chairman, at spiccolo@airtectonics.com.

ASHRAE RESEARCH - Donor Form Philadelphia Chapter 21 - Region 3

1) Type of Contribution;

☐ Individual

☐ Corporate

☐ Memorial To: _____

Please attach the details for the acknowledgment to, relationship to, and addresses.

2) Level of Contribution;

☐ Golden Circle (\$10,000 and greater)

☐ Research Partner (\$5,000-\$9,999)

☐ Research Associate (\$2,500-\$4,999)

☐ Research Major Donor (\$250-\$2,499)

☐ Research Honor Roll Donor - Individual (\$100-\$249)

☐ Research Honor Roll Donor – Corporate (\$150-\$249)

☐ Research General Donor (Less than \$100 Individual/\$150 Corp.)

3) Method of Payment;

A) Attach Check (Payable to “ASHRAE Research”)

Please note on check “Phila- Chapter 21”

B) Credit Card

☐ O-Visa ☐ O-Master Card ☐ O-AMEX

Date: _____ Signature: _____

Card #: _____ Exp. Date: _____

Note: All contributions are fully deductible under section 170 of the IRS code.

4) Donor Information:

Name: _____

Member # (If ASHRAE member): _____

Corporation Name (If Corp. Donation): _____

Address: _____

Phone : Home: _____ Business: _____

E-Mail: _____

5) Send this completed form to: ASHRAE RESEARCH, 1791 Tullie Circle, NE, Atlanta, GA 30329

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.

The Greater Philadelphia Building Professionals Association

GO TO: WWW.GPBPA.ORG

Our Vision

The focus of this organization is to improve the communications among the technical associations and ensure that the buildings and the internal environments in the greater Philadelphia area are designed, constructed, and maintained in a safer, more efficient, and sustainable manner. The association provides a free web site, www.GPBPA.org. This web site includes a calendar of future seminars, meetings, training, and special events provided by member associations.

Our Mission

The Greater Philadelphia Building Professionals Association is a collaboration of professional societies that are dedicated to sharing information regarding the work centers of the building environment. It was established to facilitate the sharing of professional expertise among the associations with the intent of cross-education of members concerning the many disciplines involved in building design, construction, operation, and maintenance.

History

The Greater Philadelphia Building Professionals Association was started in October of 2003 by the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE). They felt it was important to bring the architectural, design, and construction associations together in a forum where they could share new technical information and improve the coordination among the related associations.

Member Associations

AEE	Greater Philadelphia Chapter of the Association of Energy Engineers
AIA	American Institute of Architects
ASCET	American Society of Certified Engineering Technicians
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Engineers
ASPE	American Society of Plumbing Engineers
ASPE-Est.	American Society of Professional Estimators
CMAA	Construction Management Association of America
DVGBC	Delaware Valley Green Building Council
CSI	Construction Specification Institute
EAP	Electrical Association of Philadelphia
ECOP	Engineers Club of Philadelphia
GBCA	General Building Contractors Association
IESNA	Illuminating Engineering Society of North America
ISPE	International Society of Pharmaceutical Engineers
SFPE	Society of Fire Protection Engineers
SJMCA	South Jersey Mechanical Contractors Assn
SMCA	Sheet Metal Contractors Association

For further information, please go to www.GPBPA.org.

If you feel your association would like to join the Greater Philadelphia Building Professionals Association, please contact Jay Halsey at jay@cowardenvironmental.com or call 610-251-9088.

Member Services

Members who would like stay on top of the **latest news from ASHRAE** should go to www.ashrae.org/pressroom/list.asp to subscribe to an RSS feed.

If you or your company are hiring, please take a moment to **review the resumé of chapter members** and students which have been posted on the chapter website at www.ashrae-phila.org/resumes.html.

Any member who wishes to **have their resumé posted on our website**, or who would like to update it, can email our webmaster, Seth Weiss, at sweiss@comcast.net. The file must be in pdf format and will be posted for 3 months.

JOB OPPORTUNITY

Local Manufacturers Representative for HVAC equipment is looking for a Sales Engineer to promote their products.

Responsibilities include calling on existing customers; developing new customers; promoting our products to engineers, contractors, and owners; creating proposals; obtaining orders; communicating with the main offices; and ensuring customer satisfaction.

Individual should be motivated, have a minimum of five years of experience in the HVAC Sales Engineering field and have contacts with local engineers, contractors, and owners. Associates degree or Engineering degree is preferred.

Candidate must be computer literate with excellent oral and written communication skills to interface with customer contacts.

This position offers an excellent career opportunity, competitive salary commensurate with experience and a benefit package, including medical insurance, retirement, vacation and holidays, and a 401(k) plan.

For confidential consideration, please submit a resume (including salary history) to:

sales@ngd-air.com or Fax 610-648-9311

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

The *Quaker City Climate*
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 American Society of Heating, Refrigerating
 and Air Conditioning Engineers, Inc.
 994 Old Eagle School Road, Suite 1019
 Wayne, PA 19087-1866
 610.971.2169
 fax 610.971.4859
ashrae-phila.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:

James Piscopo
 AEC Inc.
 485 Devon Park Drive, Suite 113
 Wayne, PA 19087
 (P) 610-688-3980
 (F) 610-688-4566
jpiscopo@aeceng.net

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