



Volume 42, No. 8
April 2007

Quaker City CLIMATE

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

PHILADELPHIA CHAPTER

Dinner Presentation

The Importance of Humidity Control

presented by

Kevin Cole
Stulz-ATS, Inc.

Thursday, April 12, 2007

Past Presidents' Night

Membership Promotion
Night

5:00 PM to 6:30 PM
Social Hour
Cash Bar

6:30 PM to 8:00 PM
Dinner / Presentation

STRENGTHEN OUR MEMBERSHIP!

Ask for a Membership Application at our
Events' Reception Table -
Pass it along to a Friend
or Colleague!

LOCATION

Colleen's on the Parkway
Parktowne Place Apartments
South Building
22nd & Ben Franklin Parkway
Philadelphia, PA

Parking is available on the street or through
valet service at the entrance
to the restaurant.

FOR RESERVATIONS

Call (610) 971-2169
or Email

philachapter@mail.ashrae.org

RESERVATION NOTICE

Reservations must be made
no later than 12:00 Noon
on Tuesday, April 10, 2007

COST

Local Chapter Members Reservation
\$30
Late Registrations & Walk-ups
\$45
Non-local Dues Paying Attendees
\$35
Members 30 years & under
\$10 Discount

Student Members
\$10

Reservations not cancelled by 12:00 noon
two days prior to the meeting will be
billed the full amount.
The Chapter will no longer
bear the cost of "no-show" meals.

From Our President

Winter of 2007 reminded me of a bad horror movie. Just when you thought the movie was finally over, the monster came back to life. Daylight savings time started on March 11 this year, three weeks earlier than usual. Three days later the high temperature in Philadelphia nearly reached 80 degrees. By the end of that same week we were all scraping ice off our windshields in 20 degree weather. At least we knew better times were not far away.

Spring is the season of renewal, growth, and the start of better times. We are returning to Colleen's for our next meeting on April 12. Past President's Night has been scheduled for this first meeting of spring, in conjunction with Membership Promotion. Our Program Committee recognizes that renewing the links with our past is equally important as stimulating growth in our organization. Also in April, we are sponsoring a full day seminar on Professional Energy Code / Standard 90.1-2004 at Globalcon (April 3, Atlantic City Convention Center). Details on both events can be found in this newsletter.

These next three months will conclude our calendar of chapter operations, and it's time to start looking forward to next year. We have started preparing for the 2007 Region III CRC Conference (August 9-11 in Norfolk, Virginia). Chapter members have the right and the responsibility to present to the chapter CRC Action Committee motions to enhance regional, chapter or Society activity. This year's CRC Action Committee is chaired by Senior Governor, Ken Strup, and he will be challenging our members to develop worthwhile motions. Please visit the Region III website for more information about CRC: http://region3.ashraeregions.org/reg_3cd.htm

Finally, the Board of Governors is happy to report that our Treasurer is back on duty. Bill Hart enjoyed good health for his entire life, until recent concerns forced him to check into a hospital for the very first time. Bill was out of commission for most of March, but we are thrilled to report he returned to work last week. Thanks to everyone who sent well wishes, and thanks to those who helped pick up the slack in Bill's absence. The contributions of an individual become deeply appreciated when they are missed. Welcome back, Bill!

Steve Piccolo

Dinner Presentation Description

The Importance of Humidity Control

Humidification Technologies

Psychometrics

Adiabatic Humidification

Isothermal Humidification

Humidity Control

Humidification Applications

Energy Considerations

Dehumidification Technologies

Desiccant Dehumidification

Refrigerant/Mechanical Dehumidification

Dehumidification Control

Dehumidification Applications

Energy Considerations

Speaker Bio

Kevin Cole is Sales Manager at Stulz Air Technology Systems, Inc. He has worked in the precision environmental control industry for over 20 years and has extensive experience in air conditioning, humidification and dehumidification control.

He has been responsible for world wide design and development of products for the "Tactical Applications Group" specializing in systems to control temperature and humidity where extreme climatic conditions exist.

Kevin's present responsibilities include engineering product coordination on major projects with Fortune 500 Companies and technical presentations to consulting engineering firms and high tech professional organizations.

NOMINATION OF ASHRAE OFFICERS FOR 2007-08

The nominating committee has prepared the slate of officers and board members for the year 2007-2008. The names will be announced at the March monthly meeting and confirmed at the April monthly meeting. They are listed below:

President:	Andrew O’Pella
President Elect:	Jeffrey Gilbeaux
Vice President:	Bill Hart
Treasurer:	Christine Stearns
Board Member:	Robert Finkboner
Board Member:	Jared Johnson
Board Member:	John Pardekooper
Board Member:	Mike Witkowski

Nominating Committee Members:	Mark Hershman David Hersh Steven Ridenour
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Save the Date!

The Philadelphia Chapter of ASHRAE will have a table at the AEE Globalcon event in Atlantic City on April 4 and 5, 2007.

Go to www.globalconevent.com for further information.

Check
www.ashrae-phila.org
for further information
on the
Philadelphia Chapter!

Technology Awards Program – Have Your Work Recognized!

ASHRAE has an annual technology awards program that recognizes advances in the application of HVAC+R technology. Philadelphia has not had many entries in recent years, and I would like your support in changing that. These awards are a great way to gain recognition for your innovative designs.

Submission at the Chapter and Region level requires completion of a short application along with brief supporting documentation. One entry in each category will be selected as a chapter winner. Those entries will then be sent on for judging in the regional competition.

Applications and background information on the program can be found on the ASHRAE website (<http://www.ashrae.org/publications/detail/14692>). The information on the Technology Awards is near the bottom of the page.

Four copies of the entry must be mailed and in my hands no later than Monday, April 2nd. Please contact me if you have questions about this program.

John Pardekooper
P 215-654-8040
john.pardekooper@siemens.com

Interested in advertising in the
Philadelphia Chapter’s
2007-2008
Directory of
Manufacturers’ Representatives,
Associations, and Consulting Firms?

If you didn’t receive a letter
regarding placing an advertisement,
please call
Hope Silverman at 610-971-2169.

**PHILADELPHIA CHAPTER ASHRAE
2006 - 2007 PROGRAMS**

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

Date	Location	Pre-Dinner Topic	Dinner Topic	Theme
Thursday April 12, 2007	Colleen's		Humidity Control Sponsor - G. Lawler	Past Presidents Night
Thursday May 10, 2007	Spaghetti Warehouse	Educational Product Displays	Design Errors Sponsor - L. Snyder	ASHRAE Scholarship Night
Thursday June 14, 2007	Temple University Campus	Program Planning Meeting for 2007-2008		

PLEASE COPY, CUT, AND POST ON YOUR BULLETIN BOARD AT WORK.

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.

This is a cost savings for the Chapter and eliminates lost time due to mail delays. This is also useful to distribute meeting reminders and urgent information in a timely manner.

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 too our email distribution list, if you are not included already.

We will keep your email address confidential!

2006-2007 Directories are Available Now!

The 2006-2007 Philadelphia Area Directory -
Associations, Consulting Firms, and Manufacturers'
Representatives

is in stock. It sells for \$20 each.

Payment should be sent with your order to:

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

PHILADELPHIA ASHRAE CHAPTER ANNUAL SPRING GOLF TOURNAMENT



when: Friday, June 1, 2007 — 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: \$100.00 per person

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

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

RSVP TO:

Hope Silverman
Tel: (610) 971-2169
Fax: (610) 971-4859
Email: hope@multiservicemgmt.com

PAYMENT TO:

ASHRAE
994 Old Eagle School Road, Suite 1019
Wayne, PA 19087-1866
(Make checks payable to "Philadelphia Chapter ASHRAE")

REGISTRATION FORM

Name:	Company:	Telephone:
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Golf, Lunch & Dinner	\$ 100.00 x _____ = \$ _____
Hole Sponsor	\$ 200.00 x _____ = \$ _____
Multiple Hole Sponsor	\$ 150.00 x _____ = \$ _____
TOTAL ENCLOSED	\$ _____

March Meeting Photos



Steve Piccolo, Philadelphia Chapter President, awards a Liberty Bell to the March meeting speaker, Byran Blackham of Siemens Building Technology.



At the March meeting, the Nominating Committee presented their nominations to the 2007-08 Board of Governors. The nominees in attendance included (left to right): Jared Johnson, Bob Finkboner, Jeff Gilbeaux, Christine Stearns, John Pardekooper, Mike Witkowski, and Steve Piccolo.

Please help the ASHRAE Research 2006-2007 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 Jeff Gilbeaux, Research Promotion Chairman, at galengineering@comcast.net.

**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 then \$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

-Visa -Master Card -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 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 Philadelphia Post of the Society of American Military Engineers invites you to:

SAME 2007
Joint Engineer Education and Training Conference & Expo

May 1-4, 2007
 Pennsylvania Convention Center
 Philadelphia, PA

Highlights include:

- Contingency Engineering and Reconstruction; Emergency Preparedness and Response
- Installation Development and Realignment
- Installation Management
- Professional Development
- Developing Military Leaders

For additional information check out the Website:

<http://www.phillysame2007.org/>

REGISTER TODAY!

STLE Annual Meeting - May 6-10, 2007

Best practices of lubrication can help solve problems with equipment failures and unnecessary energy usage. People without lubrication expertise can benefit greatly by attending this educational event.

The 2007 Annual Meeting of the Society of Tribologists and Lubrication Engineers on May 6-10, 2007 in the Philadelphia Marriott (downtown) will offer:

- * Ten education courses on basic to advanced lubrication topics
- * Over 400 technical sessions from practical applications to new research on lubrication subjects
- * Exams for CLS, OMA or CMFS certification
- * The Commercial Marketing Forum and sold out Trade Show are the only opportunities for companies to present specifics on their brand name lubrication products
- * More including a keynote talk on the tribology of heart-assist devices (blood pumps), President's Luncheon, workshop on "Handling Difficult People and Situations", student posters and social events.

The early bird savings of \$50 on registration fees ends on April 13.

Detailed program and registration information is now available at www.stle.org or info@stle.org or 847-825-5536.

If you have any questions or comments, please contact:

Beth Weinstein
 Director of Membership Marketing
 Society of Tribologists and Lubrication Engineers
 840 Busse Highway
 Park Ridge, IL 60068-2376
 Phone: (847) 825 5536 ext. 201
 Fax: (847) 825-1456
bweinstein@stle.org

www.stle.org <<http://www.stle.org>>

Career Opportunities

Our client is a leading energy provider for commercial, institutional, and industrial businesses within the Philadelphia area. We are seeking an engineer that would provide consultation to existing and potential customers with a focus on recommending and designing improvements to their energy system that will enable them to reduce their energy consumption and cost. This will involve performing engineering studies to determine feasibility of constructing new energy systems (i.e. Chilled water, Boilers, Cooling Towers, HVAC Systems, and thermal piping) or making modification to existing systems considering both technical and economic factors. Developing technical simulation models of energy production equipment/systems to provide energy outcomes and inputs for financial models and budgets. Conducting energy audits, heat rates, performance engineering and provides reports detailing opportunities for implementing facility improvement measures. Provides sales support and prepares and conducts technical presentations to both consultant engineers and customers. Performing Project/Construction Manager duties of scheduling and coordination of project implementation. Developing equipment specifications, issues requests for proposals, and prepares detailed cost estimates. Performing analysis for energy systems, utility rate schedules, and evaluates and compiles performance data. Participate in frequent special projects; Ability and willingness to meet highest attendance requirements; Acts as a team member with all employees of Company staff; Complies with all Company policies and procedures. This Company offers excellent stability and growth potential. Attractive base salary bonus and benefits are part of the package.

Qualifications: BS Mechanical or Engineering discipline and a minimum of 3 years of energy related engineering work required including knowledge and experience in the area of boilers, chillers and HVAC equipment.

CONTACT:

Roger Malatesta
President
Professional Recruiting Consultants, Inc.
3617-A Silverside Rd
Wilmington, DE 19810
302-479-9550
email: roger@prcstaffing.com
web: <http://www.prcstaffing.com/>

Full time engineering design position for HVAC designer. Associate degree or better. Friendly staff, continuous busy work schedule, field surveys, designs of systems, redline drawings for CAD draftsman, AutoCAD is a plus.

Projects include commercial, institutional, some industrial, engineered multi-family complexes. Some limited overtime.

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This is a good opportunity to join a professional staff and become a part of a team designing successful projects, while learning design concepts and systems engineering.

Please contact Joseph McHugh 215-641-1158
or Fax 215-641-0194.

McHugh Engineering Associates Inc.
550 Pinetown Road Suite 205
Ft. Washington, Pa 19034

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 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.

For **Video Resume And Job Opportunities**, visit online portal: www.LookFirst.net.

Looking for work? See jobs posted at STEP, Inc. Send an updated resume to admin@step-inc.com in Word format to be considered for any of these opportunities. Keep in mind that this is a totally FREE SERVICE to any of our

applicant clients.

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

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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:

Bob Carpenter

Coward Environmental Systems, Inc.

501 Birchfield Drive

Mount Laurel, NJ 08054-4005

or email: bob@cowardenvironmental.com

or call: 856-727-4400

or fax: 856-727-4344

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