



**Volume 43, No. 8**  
**April 2008**

# Quaker City CLIMATE

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

## PHILADELPHIA CHAPTER

### Dinner Presentations

### HVAC Treatment of High Density Data Loads

presented by  
Kevin Cole

Stulz Air Technology Systems, Inc.

### ASHRAE TC 9.9 & ASHRAE STD 127-2007

presented by  
Geoffrey Lawler  
Environmental Systems Group, Inc.

### Thursday, April 10, 2008 Scholarship Night and Membership Night

5:00 pm to 6:00 pm  
Pre-dinner Social Hour  
*Cash Bar*

6:00 pm to 8:00 pm  
Dinner and Presentations

Check out our online registration!  
Go to

<http://www.acteva.com/booking.cfm?bevaaid=157509>

### STRENGTHEN OUR MEMBERSHIP!

\*\*\*\*\*

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

### LOCATION

Colleen's - NEW LOCATION  
Holiday Inn  
10th and Packer Avenues  
Philadelphia, PA

This is adjacent to Citizens Bank Park.  
Free parking.

### FOR RESERVATIONS

Register online or  
Call (610) 971-2169 Or Email  
[philachapter@mail.ashrae.org](mailto:philachapter@mail.ashrae.org)

### RESERVATION NOTICE

Reservations must be made  
no later than 12:00 Noon  
on Tuesday, April 8, 2008.

### COST

Local Chapter Members  
with a Reservation  
\$30  
Non-local Dues Paying Attendees  
with a Reservation  
\$35  
Late Registration & Walk-ups  
\$45  
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

Spring is finally here and our first meeting of the new season offers a review of ASHRAE TC 9.9 and Standard 127 after our main topic. This meeting will be held at the Holiday Inn at 10<sup>th</sup> and Packer. Colleen's has relocated to this particular Holiday Inn, as it is no longer on the Benjamin Franklin Parkway. That location has now been closed.

Our annual Golf Outing is on Friday, May 30<sup>th</sup> at the Northampton Valley Country Club in Richboro. If you are interested, fill out the registration form on page 4 in this Climate and send it to Hope. Please make sure to consider the opportunity to help on a new research project by Drexel University as noted on page 5.

I look forward to seeing everybody at our next meeting on the 10<sup>th</sup> of April.

Andrew O'Pella

### April Presentations

#### HVAC Treatment of High Density Loads

- Discussion of new ASHRAE STD 127-2007 "Method for Testing and Rating Computer Room and Data Process Air Conditioners".

#### ASHRAE Technical Committee TC 9.9

- Discussion of new "Thermal Guidelines for Data Process Environments", "Design Considerations" and "Standard Practices"
- TC 9.9 Publications
- ASHRAE/NYSERDA "Data Center Energy Efficiency Workshop"

For those who could not attend the March meeting, copies of Matt Dugan's presentation on "LEED Measurement and Verification" are available by contacting Matt at [mdugan@dvl.net](mailto:mdugan@dvl.net).

### April Speaker Bios

Kevin Cole

Stulz Air Technology Systems, Inc.

Kevin Cole has worked in the precision environmental control industry for over 20 years primarily on specialized cooling applications.

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 with Mission Critical applications.

Geoffrey Lawler

Environmental Systems Group, Inc.

Geoffrey Lawler is a graduate engineer with a Degree in Mechanical Engineering from Villanova University.

As a student Geoff received the first ASHRAE Philadelphia Chapter- Student Award in 1967.

Geoff has worked in the precision environmental control industry for over 30 years and has extensive experience in air conditioning, humidification and dehumidification control.

He has been involved in the design, manufacture and sales of products for "High Tech" industries such as Data Centers, Clean Rooms, Chip Fabrication and Telecommunication.

Geoff is very active in local ASHRAE Chapters and has presented to The Central Pennsylvania Chapter (Harrisburg) and The Anthracite Chapter (Scranton/Wilkes Barre), as well as The Philadelphia Chapter.

He presently serves on the ASHRAE Technical Committee (National) TC 9.9 which deals with high density electronic equipment and also was a member the committee that rewrote ASHRAE Standard 127, "Method of Testing for Rating Computer and Data Processing Room Unitary Air Conditioners", which was approved late last year.

## PHILADELPHIA CHAPTER ASHRAE 2007 - 2008 PROGRAMS

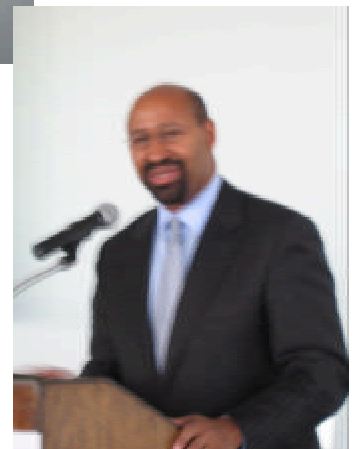
*For reservations and updates, check [www.ashrae-phila.org](http://www.ashrae-phila.org).*

Date	Location	Pre-Dinner Topic	Dinner Topic	Theme
Thursday April 10	Holiday Inn 10th & Packer		HVAC for High Density Data Loads	Scholarship Night Membership Night
Thursday May 8	Harrah's Casino Chester	Tour of Physical Plant	History of ASHRAE	Past Presidents & Young Engineers Night
Thursday June12	Temple University	2008-2009 Planning Meeting		
Friday May 30	Golf Outing			

**PLEASE COPY AND POST ON YOUR BULLETIN BOARD AT WORK.**

### Philadelphia's Green Building Report

Mayor Nutter, James Kenney, and other city leaders spoke to ASHRAE, DVGBC and other associations on March 11, 2008 at an event sponsored by the Pennsylvania Environmental Commission. The Commission presented a report identifying the relatively slow rate of Philadelphia's Green Building growth when compared to peer cities. For a copy of the report go to [www.pecpa.org](http://www.pecpa.org).



### GPBPA - Check it out!

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. The association provides a free web site, **[www.GPBPA.com](http://www.GPBPA.com)**, which includes a calendar of future seminars, meetings, training, and special events provided by member associations. If you feel your association would like to join GPBPA, please contact Jay Halsey at [jay@cowardenvironmental.com](mailto:jay@cowardenvironmental.com) or call 610-251-9088.

# PHILADELPHIA ASHRAE CHAPTER ANNUAL SPRING GOLF TOURNAMENT



WHEN: Friday, May 30, 2008 - 1:00 pm Shotgun  
Lunch will be provided at Noon; Dinner will be immediately after

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@mmco1.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	\$ _____

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## Research Project Help is Needed

Members,

We have a great opportunity to assist the research community and help bridge the gap between industry and academia. Professor Reddy at Drexel University is beginning work on a new research project. For this project he will need input from consultant engineers in this area of focus. Below is a brief description of the project. Anybody interested should contact Professor Reddy at the e-mail following the description. Thank you for your help with this.

### Development of Assessment Protocols for Building Security Measures A Scoping Study

This objective of this research is to identify the major knowledge gaps which currently exist in how design professionals, contractors, technicians, approach reduction of risk to building occupants from airborne chemical and biological releases. The focus is on engineering measures related to the design and operation of a building (rather than physical security measures such as fences and guards) that will increase the resiliency of buildings against intentional and accidental airborne contaminant releases. The scope of this program includes facilities such as office buildings, schools, and hospitals that are not generally considered part of the high consequence critical infrastructure/key resources addressed by most homeland security efforts, but are nevertheless of concern on the local, regional, or national level.

We are reviewing documents and software that describe procedures to evaluate the protection level in an existing building and then suggest measures to improve the building security level. We would like to identify case studies where engineers have done this at some level or another and added specific equipment. We know of your active involvement and leadership in this area, and so we would appreciate it if you could provide such information or suggest people (statewide and in the east coast would be better) whom we could contact.

Agami Reddy, Ph.D., P.E  
Professor  
Civil, Arch. and Env. Engineering Dept  
Drexel University  
3141 Chestnut Street, Philadelphia, PA 19104  
Phone: 215-895-1502; Fax: 215-895-1363  
email: redDYta@drexel.edu

<http://www.cae.drexel.edu/research/buildingsystems/>

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## *Welcome New Chapter Members!*

### New Members Elected February 2008

Bill Artosky  
Matthew Joseph Corsello  
Vincent P. Dahms  
Jen Erni  
Bruce M Kapski  
Jeffrey S Pisarek  
Michael R Schultz  
Brandon Charles Wellington

### New Members Elected March 2008

Michael Calabrese PE  
Wayne Clark  
Robert Clifton  
Anthony Crescenzo Jr  
John Arrington Dodge  
Alan Grant  
Oisin Hayes  
Richard J Reinert  
George Thomas  
Peter J Wolf

## March Meeting Photos and News



Jeff Gilbeaux, Philadelphia Chapter President-Elect, presents Chapter President, Andrew O'Pella, with a certificate for his year of service to the Chapter.



Matt Dugan (left) of DVL Automation was the speaker. Here he is thanked and presented with a Liberty Bell by Philadelphia Chapter President-Elect Jeff Gilbeaux.



Spencer Finch speaks briefly about the report presented to Philadelphia Mayor Nutter on Tuesday (see page 3).

The March joint meeting with the Association of Energy Engineers (AEE) took place at Fisher's Tudor House in Bensalem on Thursday March 13. Almost 200 people signed up for the pre-dinner vendor show and dinner. There were 58 vendors (see page 13). Everyone liked the food, the location and the after dinner topic.

The speaker was Matt Dugan of DVL Automation. The discussion was about measurement and verification for LEED certification.

Spencer Finch, Director of Sustainable Development Programs of the Pennsylvania Environmental Commission said a few brief words about the presentation to Philadelphia Mayor Nutter on March 11 (see pages 3). Jeff Gilbeaux, John Pardekooper, and Bill Hart represented the Philadelphia Chapter of ASHRAE at the presentation to the Mayor.

A good time was had by all and we look forward to making the event a bigger success next year.

## Board Nominations for 2008-2009

The Nominating Committee has selected the following members to serve as officers and board members for the 2008-09 year. All have been contacted and agreed to serve.

Andy Opella	Senior Governor
Jeff Gilbeaux	President
Bill Hart	President Elect (in charge of meeting schedule)
Christine Sterns	Vice President
John Pardekooper	Treasurer
Bob Finkboner	Governor
Jared Johnson	Governor
Mike Witkowski	Governor
James Piscopo	Governor

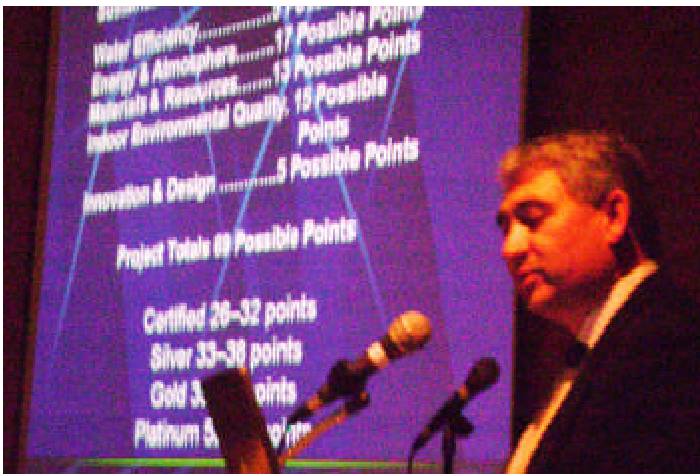
Nominating Committee: David Hersh, Mark Hershman, Steven Ridenour



## March Meeting Photos



For those who could not attend the March meeting, copies of Matt Dugan's presentation on "LEED Measurement and Verification" are available by contacting Matt at [mdugan@dvlnet.com](mailto:mdugan@dvlnet.com).



## Scenes from the March Table Top Vendor Show



Philadelphia Chapter Governor Mike Witkowski  
with Doug Cowan of RD Bitzer



The March meeting was a joint meeting with the  
Association of Energy Engineers.  
Above is their registration table.



Philadelphia Chapter Treasurer Christine Stearns  
at the ASHRAE registration table with  
Andrew O'Pella, Chapter President.



## Job Opportunities

Check our web site, [www.ashrae-phila.org](http://www.ashrae-phila.org), for more job openings.

### ***Inside Sales Engineer***

Clapp Associates is Manufacturer Rep organization selling engineered systems in the Delaware Valley for almost fifty years. We specialize in Hydronics, Steam and Humidification systems. We are fortunate enough to be associated with only the very best companies in the industry. We are presently seeking an Application Engineer responsible for insides sales and technical product support. Job responsibilities include providing technical product and application expertise along with inside sales support to customers. Compensation, future growth and recognition will be HUGE for the right candidate.

#### Job Details

Prepare quotations, submittals, product sizing, and follow-up, enter orders as required, administer change orders, support Field Sales Engineers, and other duties as assigned by the manager. Provide technical assistance to customers. Maintain effective communication between distributors, customers and field sales engineers.

Additional skills necessary are:

- Mechanical aptitude.
- Excellent verbal and written communication skills.
- Good Computer and organizational skills.
- Microsoft Office knowledge is required.
- Knowledge of hydronic and steam systems is very desirable.

Engineering or engineering technology degree, BSME or BSEE preferred along with 5 to10 years selling mechanical equipment.

Clapp Associates offers an excellent friendly work environment plus a comprehensive salary and benefit package. Benefits include an annual merit bonus, profit sharing/401 (k) Plan, fully paid medical, dental an vision insurance.

Please forward Resume to [Sales@clappassociates.com](mailto:Sales@clappassociates.com) - Subject Line - 'Resume'

#### **CLAPP ASSOCIATES INC.**

1325 O'Reilly Drive - Feasterville Pa. 19053  
(215) 364-5090 Fax (215) 364-8275

### ***Inside Sales & Customer Service Rep.***

Robert Brown Associates , Inc. is looking for a qualified individual to support Industrial sales of pumps, parts and related equipment. Mechanical knowledge and college background is a plus. Full benefits package. Salary commensurate with experience. Includes an incentive plan. Send resume and contact information to: Nick Sirolli, Executive VP, email: [nsirolli@rbapump.com](mailto:nsirolli@rbapump.com).

*See next page for another opportunity.*

### Internship and Fellowship Opportunities

**ASHRAE Washington Fellowship:** ASHRAE is sponsoring a one year Federal Fellowship Program known as the ASHRAE Washington Fellowship. This program will enable a selected ASHRAE member to devote a year working within the federal government providing engineering and technical advice to policy makers in either Congress, a Federal Agency (e.g., DOE, DHS, GSA), or the White House Office of Science and Technology Policy. This Fellowship is geared to establish and nurture critical links between federal decision-makers and engineering professionals to support public policy that benefits the well-being of the nation and the planet. Federal Government Fellowships provide a valuable public service to the nation while at the same time providing engineers with a unique opportunity to participate directly in the policy making process. This is an exciting, rewarding, and educational period in their professional careers. This enriching experience enables Fellows to bring back to their employers an insider's perspective on government decision making that can contribute significantly to the mission and vision of the organization. Fellowship candidates should possess a PhD or other terminal degree in an engineering or scientific discipline. Fellowships are a one-year opportunity (September to August). An orientation will be provided through the American Association for the Advancement of Science (AAAS). A stipend of \$45,000 will be provided. **Deadline for applications is May 1, 2008.** More details on the program are available at <http://www.ashrae.org/advocacy/page/1227>. If you have any questions, please contact the ASHRAE Washington Office at (202) 833-1830.

## Job Opportunity

### Center for Architecture Coordinator of Programs and Facilities

The Center for Architecture was founded in 2002 by the American Institute of Architects (AIA Philadelphia) to carry out its public purpose and charitable programs to advance the practice of architecture and further the knowledge and appreciation for quality design and building of our communities and region. The Center purchased a new facility in May 2007 and will complete its renovation in April 2008. The new facility will make it possible to further engage the public on issues of importance to their environment and to engage the many design and construction disciplines that work together in that endeavor. The new exhibit gallery and meeting facilities at 1218 Arch Street will dramatically enhance the Center's capacity to host and create programs towards this mission. The Center's programs are supported by grants from foundations, corporate sponsors, AIA Philadelphia and its own earned revenue.

Recently the Center has received funding to assist in the start up and programming of the new Center for Architecture. To implement the programming and use of the new facility the Center is seeking to fill a position of Center for Architecture Coordinator of Programs and Facilities.

The **Coordinator of Programs and Facilities** for the Center for Architecture will report to the Executive Director of the Center for Architecture and work collaboratively with the staff of AIA Philadelphia and the Community Design Collaborative to implement all of the programs and activities that occur in the Center for Architecture's new gallery and meeting spaces at 1218 Arch Street, Philadelphia PA. The Coordinator will have the following responsibilities:

- Schedule, contract and facilitate the use of the Center
- Initiate programs in coordination with other organizations with a similar mission
- Initiate new or recreated programs within the Center
- Organize, manage and support the "program committee" of the Center
- Negotiate and enter into contract/agreements with private users of the Center
- Retain and contract the services required to maintain, clean and organize the Center

- Supervise the Center's concierge in coordination with the AIA Bookstore staffing and the 1216 Condominium Association.
- Represent the Center at meetings and with organizations that have a common purpose with the Center
- Prepare monthly and annual reports on the use and performance of the Center. Prepare narrative reports for foundation and sponsor supporters.
- Provide marketing, communications and public relations for the Center
- Promote the Center and its activities to the print and electronic media
- Monitor the financial performance of the Center and seek revenue and funding support to make the Center self supporting.

#### Qualifications/Experience

- The position requires a bachelor degree in a field relevant to the built environment
- Strong written and verbal communication skills
- The Coordinator should be outgoing, prepared to engage other organizations for participation and use of the Center and be prepared to seek out new opportunities for the Center
- A skilled representative of the Center to create and negotiate partnerships for joint programs and activities
- At least five years of increasing administrative/marketing/supervising experience. Facility management experience would be desirable.
- Computer competency is required in use of the internet, Excel, Word and Power Point software programs.

The Coordinator is a full time position. The salary is \$50,000 plus benefits. The position requires a flexible work schedule including evening assignments and responsibilities. The Center is an equal opportunity employer and seeks candidates without regard to race, gender, sexual orientation, age, religion or other factors.

Applications should include a letter describing experience plus a detailed resume. These should be submitted by email or US mail by March 28, 2008, to:

John P. Claypool, AIA, AICP  
Executive Director  
Center for Architecture  
1218 Arch Street  
Phila. PA 19107

By email to: [john@aiaphila.org](mailto:john@aiaphila.org)

## 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!

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.

## We Need Your Email Address!

*The Quaker City Climate*, 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@mmco1.com](mailto:hope@mmco1.com) to be added to our email distribution list, if you are not included already.

## 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).

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](mailto:sweiss@comcast.net). The file must be in pdf format and will be posted for 3 months.

Check  
**[www.ashrae-phila.org](http://www.ashrae-phila.org)**  
for further information  
on the Philadelphia Chapter!

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

*The Quaker City Climate*  
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fax 610.971.4859  
[ashrae-phila.org](http://ashrae-phila.org)

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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:

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

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