



Volume 43, No. 6
February 2008

Quaker City CLIMATE

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

PHILADELPHIA CHAPTER

Pre-Dinner Presentation
*Duct Mounted
High Pressure Spray/
Ultrasonic Humidification*
presented by
Geoff Lawler
Environmental Systems Group, Inc.

Dinner Panel Discussion
*Design, Construct,
Commission, Balance*

See page 2 for a list of panel members.

Wednesday,
February 13, 2008

****PLEASE NOTE CHANGE OF DAY****

STUDENT NIGHT

Joint Meeting with SMCA

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

6:00 pm to 8:00 pm
Dinner
and Panel Discussion

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 Monday, February 11, 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

For all those who joined us for our sponsored trip to the ASHRAE Winter Meeting/AHR Expo in New York, we welcomed your participation and hope you all had an informative and fun trip.

We are in the process of organizing another TAB training session. We presently have a waiting list for attendees. We will contact those on our waiting list in the order they were received first. Anything over that will be offered once again to the membership. If we are able to schedule the training before the next Climate, we will notify the membership by email.

I look forward to seeing everybody at our next meeting on the 13th of February. Please note that our meeting is on the second Wednesday this month due to Valentine's Day.

Andrew O'Pella

TAKE NOTE!
Our February Meeting
will be held
on Wednesday -
not on Thursday.

February Meeting Presentation

**Duct Mounted
High Pressure Spray/Ultrasonic Humidification**

Presented by
Geoff Lawler
Environmental Systems Group, Inc.

Presentation includes grain level control requirements and interface in Critical Environments and design issues to be aware of. This will include a table top display of optional humidifiers.

February Panel Discussion

A panel of professionals and industry leaders discuss the following topics in an audience interactive platform:

1. Project Completion, close-out and balancing.
2. Bid-ability
3. Field changes
4. Value engineering
5. Project coordination (Construction Management)
6. Project timelines and the submittal process.

Moderator: Larry Snyder, Clapp Associates

Panel:

Design Professional: Joseph Smaul, PE, NSPE
Vice President - Education Chair

Balancing Professional: Matthew Sano
Fisher Balancing

Commissioning Agent: Kenneth Strup, CxA
IAQ, Inc.

Building Professional: Tom DeMusis
Wm. J. Donovan Co.

PHILADELPHIA CHAPTER ASHRAE 2007 - 2008 PROGRAMS

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

| Date | Location | Pre-Dinner Topic | Dinner Topic | Theme |
|----------------------------|----------------------|--|--|---|
| Wednesday * February 13 | Colleen's | HVAC Design for Critical Environments | Panel Discussion: Design, Construct, Commission, Balance | Student Night Joint Meeting with SMCA |
| Thursday March 13 | TBD | Table Top Vendor Show | LEED M&V | Membership Joint Mtg with AEE |
| 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 | | |
| Friday May 30 | Golf Outing | | | |

* NOTE: This meeting is on a Wednesday, not a Thursday (which is Valentine's Day).

PLEASE COPY AND POST ON YOUR BULLETIN BOARD AT WORK.

07-08 Directories Now Available

The 2007-2008 Directory of Associations, Consulting Firms, and Manufacturers' Representatives in the Philadelphia Area is now available! The cost is \$23 per copy, no tax or shipping. To order, send your check payable to "Philadelphia Chapter ASHRAE" to:

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

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 to be added to our email distribution list, if you are not included already.

Philadelphia Future City Competition 2008

One outreach program of the National Engineers' Week is the Future City competition, in which teams of middle school students simulate their vision of a city of a future, develop two essays, build a tabletop model and make a 7-minute presentation in a regional competition. Each team consists of an engineer/coach, a teacher and three students.

There were 26 middle-school entries in the 2008 Philadelphia regional competition, which was held on January 26 at Villanova University.

The regional competition winner advances to the national competition in Washington, DC during Engineers' Week in February. The ASHRAE Philadelphia Chapter is a bronze-level sponsor of the program and awards the Best Indoor Environment Award to the team which incorporates an innovative solution to controlling the indoor environment.

The intent of the program is to steer young students toward engineering by associating the profession with an enjoyable competition. The students also learn presentation, writing and team-building skills.

The 2008 Best Indoor Environment Award was presented to Governor Mifflin Middle School (Shillington, PA), pictured here at the right, which incorporated solar panels into the design of their city and also went on to place third in the overall competition.

ASHRAE Fellow John Kampmeyer is the regional coordinator for the event. Chapter members Mark Maguire and Rick Picara acted as special judges, who evaluated teams for specific awards. Chapter members Scott Davis, Brad Crowley, Mike Witkowski and Zhongping Huang were preliminary judges, who evaluated the team presentations.

Chapter members Frank Nicosia, Joe Turk, Randy Cook and Joseph Matje coached middle school teams.

The competition needs volunteers to sustain the effort on an ongoing basis. Please check their website (futurecityphilly.org) for additional pictures and volunteer opportunities.



Student Activities

Drexel University, Temple University, Widener University and myself would like to thank the local chapters for making a bus available to get students to the trade expo. The students felt the show was a great experience and were able to learn a lot in a brief time.

Currently, Drexel University is making strides in their student branch. They are in preliminary discussions with a new group at Drexel to develop the HVAC systems for a Smart House. The Smart House team is developing designs to renovate a former fraternity house at 35th and Race. The renovation will explore all new and creative technologies in the industry. It is the intention to make this house a living lab. Look for more information and ways to get involved from a society level in the near future.

Temple University is looking for a mentor to help expand their ASHRAE student branch. A preliminary meeting is scheduled for early February. If you are interested in helping out, please contact myself.

Widener University is expanding their course offerings in the HVAC industry.

Last but not least, we are looking for Villanova graduates who would be interested in trying to start a student branch. Currently I am an adjunct instructor who teaches senior HVAC students. The class has a high enrollment, leading me to believe there would be interest for this group.

Mike Witkowski
Student Activities Committee Chair
215-641-1158
mwitkowski@mchugheng.com

January Meeting Photos



Terry Townsend, PE, Fellow ASHRAE and Past President of ASHRAE, spoke at the January meeting on "A Call to Action for a Sustainable Future."



Jeff Gilbeaux, Philadelphia Chapter President-Elect, presents Terry Townsend with a Libert Bell.

Check

www.ashrae-phila.org

for further information
on the Philadelphia Chapter!

Employment Opportunities

Engineer II - Energy Management

The National Renewable Energy Laboratory (NREL) develops renewable energy and energy efficiency technologies and practices, advances related science and engineering, and transfers knowledge and innovations to address the nation's energy and environmental goals. This position, part of NREL's Strategic Energy Applications and Analysis Center Energy Management and Federal Markets activities, supports DOE's Federal Energy Management Program (FEMP). The primary purpose of this position is to apply state-of-the-art engineering and engineering analysis skills to help government agencies and private sector companies identify the highest value efficiency and renewable projects for implementation. This position helps those entities implement the projects and measures by using innovative financing mechanisms, including: energy savings performance contracts, utility energy service contracts, and power purchase/energy service agreements. For more information about this position go to http://www.nrel.gov/employment/job_postings/1764.html.

ASSOCIATED ENGINEERING CONSULTANTS, INC.

AEC is a young, progressive engineering firm based in Wayne, Pennsylvania, less than 30 minutes from Center City Philadelphia. We offer excellent benefits, competitive salaries and opportunities for career growth and professional development.

Our project experience includes a variety of building types including commercial, higher education, health care, pharmaceutical, multi-family housing and historic renovation.

We're seeking motivated plumbing designers with five to ten years of experience to begin work immediately on some of the area's most exciting new projects, including LEED certified buildings. AutoCAD experience is required.

Please fax resumes to Robert W. Rowland at 610-688-4566 or Email: browland@aeceng.net.

Manufacturer's Rep Firm specializing in engineered HVAC equipment seeks an experienced Sales Engineer to take over established territory in Central Pennsylvania currently producing income above six figures. Desired qualifications include similar experience, proven sales performance, and a background in mechanical engineering. The ideal candidate will be familiar with specifying MEP engineers, end users, and mechanical contractors from Lancaster County to Harrisburg.

Please fax resume to 215-945-2602 or email to: sales@airtectonics.com.

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.

Employment Opportunity**Technical Sales Support Engineer- Refrigerant Applications - HVAC
(King of Prussia, PA)**

Arkema is a \$7.6-billion global chemical company with 80 production facilities worldwide and 6 research centers in the US, France, and Japan. Arkema Inc. (formerly Atofina Chemicals, Inc.) is a global producer of industrial chemicals, high-performance chemicals and polymers. Thus, we can offer many different career pathways in a dynamic, international environment. We offer a competitive salary, flexible hours, and comprehensive benefits.

RESPONSIBILITIES:

This position will be responsible for providing technical sales leadership to support Fluorochemical products to customers and potential end-users. This role will be the liaison for successful introductions and promotion of both new and existing products to a more technically based target including contractors, specifiers, and engineers. Job duties will entail:

1. Technical sales presentations with targeted end-users for all products including supermarkets and large retail groups.
2. The Presentation of seminars to Trade Groups including FMI, ASHRAE & AHAM.
3. Interface between customers and the Arkema tech group to provide data exchange and communication.
4. Gather, summarize and communicate pertinent technical marketing intelligence collected in meetings with customers, publications such as trade magazines, Internet and in appropriate association meetings such as API, ASHRAE, etc. with the sales group.
5. Help insure that all customers maintain proper stewardship of our products by providing specific training, assistance and performing audits as appropriate.
6. Act as the voice for Arkema's technical support with large OEM customers.
7. Interact and communicate with marketing group to generate promotional and technical support for products.

REQUIREMENTS:

A degree in engineering, preferably Mechanical or Chemical Engineering, or equivalent Experience and knowledge. Min. understanding of basic refrigeration systems. Exposure to wholesale/distribution or OEM environment and sales experience a plus.

Excellent presentation and communication skills required. Must be self-driven and proactive in dealing with problems and unusual situations and not adverse to 50%+ travel environment. Commercial HVAC/R background preferred.

Please submit your resume on-line to:

Email: michaelp.smith@arkema.com

Fax 610-878-6274

Arkema Inc.
900 First Ave.
King of Prussia, PA 19406
Attn: Mike Smith, Human Resources
EOE M/F/D/V

For more information regarding Arkema, please visit our website: www.arkema-inc.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 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.

Faculty Position Open - Drexel University

The Department of Civil, Architectural and Environmental Engineering (CAEE) of Drexel University seeks candidates for a full-time **auxiliary faculty position in Architectural Engineering**, renewable every three years, to begin no later than September 2008.

The position calls for a candidate with extensive industry experience either in building mechanical systems or in advanced integrative building design concepts and applications (such as BIM, and sustainable building design involving LEED, Green Buildings,...). Duties of the position include teaching 2-3 classes per term; supervising student projects, such as Senior Design; and pursuing new Departmental teaching and outreach initiatives both at the undergraduate and graduate levels. Relevant teaching experience is desirable but not essential. Candidates must have a terminal degree in civil, mechanical or architectural engineering. Professional registration and a Ph.D. degree are desirable. Rank and salary are dependent upon qualifications and experience.

Drexel is a private, urban, equal opportunity university offering undergraduate and graduate degrees in all major engineering fields. The CAEE department has 600 undergraduates, 60 graduate students and 20 full-time faculty.

Applicants should forward resumes; names, addresses and telephone numbers of at least three professional references, and teaching evaluations if available to:
caee@coe.drexel.edu

Review of applications will begin immediately and continue until the position is filled. Drexel University is an Equal Opportunity/Affirmative Action Employer.

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.

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

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994 Old Eagle School Road, Suite 1019
Wayne, PA 19087-1866
610.971.2169
fax 610.971.4859
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

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