



## PHILADELPHIA CHAPTER GOLF OUTING WEDNESDAY, OCTOBER 6, 2004

**WHERE:**

The Dupont Country Club Nemours Course and Delaware National Country Club.

**FORMAT:**

7:30 AM Shotgun start at Nemours

1:30 PM Shotgun start at Nemours & Delaware National

5:00 PM Cocktails (cash bar) followed by Dinner and Golf Prizes Awards

**FEES:**

Golf and Dinner	\$140
Dinner only	\$ 55

### SPONSORSHIP OPPORTUNITIES

<b>EVENT SPONSOR</b>	\$750	Two Golf/Dinner tickets, Name prominently displayed at the Golf Outing, Name displayed in each golf cart, Name displayed on each tee, Name recognized during the dinner program and prize awards.
<b>GOLF CART SPONSOR</b>	\$300	Name displayed in each golf cart and recognized at the prize awards.
<b>HOLE SPONSOR</b>	\$150	Name displayed on random tees and recognized at the prize awards.
<b>AWARDS SPONSOR</b>		Name recognized at the prize awards (funds as well as golf-related items accepted).

*Note: Prize awards will be based on sponsorship contributions.  
We look forward to your support.*

### RESERVATIONS and SPONSORSHIP CONTACT:

HOPE SILVERMAN

Philadelphia Chapter ASHRAE

P: 610-971-2169 F: 610-971-4859 E: hope@multiservicemgmt.com

Or complete the form found in this newsletter on page 5 and mail it to:

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

Checks or credit cards (+5% handling fee for credit cards) accepted.

**RESERVATIONS & PAYMENT  
MUST BE RECEIVED BY SEPTEMBER 30<sup>TH</sup>**

Directions and additional information will be sent to registered attendees.

## President's Message

As the new President of the Philadelphia Chapter, I would like to welcome all of you to attend and participate in the ASHRAE programs for this year. Our Program Committee Chair, Ken Strup, has gathered input from every interested member to develop an exciting and informative series of presentations for the coming year. See the listing in this issue of the *Climate*.

We will continue the cooperation set forth by Jay Halsey last year with the Greater Philadelphia Building Professionals Association (GPBPA). Joint meetings are planned with them as well as the ASPE, DVGBC, and SMCA.

I would like all members to post the monthly newsletter and yearly program schedule at their place of employment. Spread the word that all members of the HVAC&R community are welcome at our meetings. If you have an Email list of associates, please forward a copy of the newsletter and program schedule to them.

Visit our website at [www.ashrae-phila.org](http://www.ashrae-phila.org) to get updates on events. Our meetings are an excellent venue to obtain current information as well as develop crucial networking contacts.

I invite you to contact any of the ASHRAE Philadelphia Chapter Board members and let them know you would like to participate in the upcoming activities. If you have any suggestions, please Email them to [Hope@multiservicemgmt.com](mailto:Hope@multiservicemgmt.com). I look forward to personally welcoming you and your professional associates at our October 14th meeting.

Steve Ridenour  
College of Engineering  
Temple University  
Philadelphia, PA 19122  
Ph. 215.204.8825

## Volunteers Wanted!

Your Philadelphia Chapter officers are asking for your help in leading the chapter's efforts as a resource to the HVAC&R community here in the Delaware Valley. The chapter has needs for both one-time and ongoing commitments. The following list highlights some specific areas in which we need help:

### Membership Promotion Committee:

We are looking for committee members to help promote ASHRAE membership amongst HVAC&R professionals.

### Chapter Technology Transfer Committee:

Members of this committee help provide technical resources to our membership, and facilitate the sharing of useful information with other chapters. We desperately need someone to chair the sub-committee that will solicit entries from our local members for Technology Awards. ASHRAE Technology Awards are used to recognize innovative designs at the regional and national level.

### Student Activities Committee:

Members in this committee help increase ASHRAE involvement in local schools and universities. The following are some specific objectives this year:

1. Establish new student chapters at local universities and technical schools
2. Participate in the Future Cities Competition (volunteers needed as mentors, judges, and coordinators)
3. Arrange speakers for local K-12 schools during National Engineering Week

If you have an interest in one of these areas, contact Volunteer Chairman Jay Halsey at [jayhalsey001@aol.com](mailto:jayhalsey001@aol.com).

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

**ASHRAE Region III Chapters Regional Conference  
August 12-14, 2004  
Philadelphia, PA**



Philadelphia Chapter President-Elect Ken Strup (second from left) accepts the award for Excellence in Membership. Ken also received a sweater for the award.



*(from left to right)* Dave Hersh (CRC Chairman), Clint Phillips (Society President 1983), Mary Jane Phillips, Mark Hershman, and Chuck Coward at the Top of the Hyatt with the Battleship New Jersey in the background. The welcoming reception was held on the New Jersey on Friday evening during the conference.



Jay Halsey receives the Presidential Award of Excellence for the Philadelphia Chapter as the 2003-2004 Chapter President.



Dr. Steven Ridenour accepts the Highest Point Award for Student Activities for John Pardekooper who could not be present. John also organized the addition of Delaware County Community College as an ASHRAE chapter.



The Philadelphia Board of Governors greets the faculty of the Delaware County Community College at the ASHRAE CRC in Philadelphia. DCCC is a new ASHRAE charter college that was obtained through the hard work of John Pardekooper.

## Yardley Engineer Receives ASHRAE Distinguished Member Award

Daniel Kramer, PE, Fellow ASHRAE, Life Member, has received a Distinguished 50-Year Member Award from ASHRAE. The award was presented at the Society's Annual Meeting held in Nashville June 26-30.

The award is given to individuals who have been a member of the Society for a minimum of 50 years, and are a past Society president, Fellow ASHRAE, Distinguished Service Award recipient, or have performed outstanding service to ASHRAE or its predecessor societies.

Mr. Kramer formerly served as chief engineer, Kramer Trenton Co. He lives in Yardley, PA. He served on an immiscible oil refrigerant systems task group. He was Chair of the Standards Committee for two consecutive years. He also was Chair of the Research Planning Committee and the R in ASHRAE Committee, as well as a member of the *ASHRAE Journal* and the Research and Technical, the Honors and Awards, and the Charters and Bylaws Committees.

Kramer holds 37 patents. He received the Distinguished Service Award in 1985 and elevated to the grade of Fellow in 1979.

The Philadelphia Chapter congratulates Mr. Kramer on receiving this very prestigious award.



### ASHRAE Region III Chapters Regional Conference Sponsors

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## Tech Reader's Corner

### Tech Watch

Source: Energy User News Publication, July 2004

The following website ([3w.wattstopper.com/greensense.html](http://3w.wattstopper.com/greensense.html)) offers downloadable resources to professionals with interests in green design practices through the use of lighting controls.

Other Interesting Reading:

*Technological Trajectories and the Human Environment*, ed. by Jesse H. Ausubel and H. Dale Langford (page images at NAP), National Academy of Engineering, 1997.

This book is browsable online for free and can be found at this website:  
<http://www.nap.edu/books/0309051339/html/index.html>

**ASHRAE GOLF OUTING REGISTER**

NAME/ and E-mail Address	HANDICAP (Approximate)	COMPANY	OFFICE # and CELL #	GOLF & DINNER \$140	JUST DINNER \$55

**SPONSORSHIP OPPORTUNITIES**

- \_\_\_\_\_ LIKE TO SPONSOR EVENT AT \$750 EACH.
- \_\_\_\_\_ LIKE TO SPONSOR GOLF CART AT \$300 EACH.
- \_\_\_\_\_ LIKE TO SPONSOR A HOLE AT \$150 EACH.
- \_\_\_\_\_ LIKE TO SPONSOR AWARDS (CASH FUNDS OR GOLF ITEMS)

**Payment Method**

1) Check - Payable to "Philadelphia Chapter ASHRAE"  
 Mail to ASHRAE, 994 Old Eagle School Road, Suite 1019, Wayne , PA 19087-1866

2) Charge Card (5% of total will be added for handling fee)

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## ASHRAE ANNOUNCES . . .

**New!!**

### ***Affiliate Membership Grade***

For an Annual Dues of \$40, applicants under age 30 can join ASHRAE at this introductory membership level.

This grade is available to new members only. Membership tenure in this grade is limited to three (3) years.

### **Affiliate Members Benefits**

Affiliate Members receive monthly issues of the *ASHRAE Journal* and are entitled to a one-time discount (20% off) on all Handbook items.

They also have access to members-only web pages.

The annual ASHRAE Handbook and *ASHRAE Insights* Newsletter are 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**

Affiliate Members cannot hold board positions at the regional or local level.

### **To Receive an 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 the membership application forms.

**PHILADELPHIA CHAPTER ASHRAE  
2004 - 2005 PROGRAMS**

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

<b>Date</b>	<b>Location</b>	<b>Pre-Dinner Topic</b>	<b>Dinner Topic</b>	<b>Theme</b>
Oct. 6	DuPont CC	Golf Outing	Golf Prizes	
Oct. 14 Thursday	Cesaphe	Flue Design	Seismic Design	Joint Meeting with ASPE
Nov. 11 Thursday	Cesaphe	Heat Pipes	Chillers	Refrigeration Night & Donor Recognition
Dec. 9 Thursday	Holiday Inn	Dedicated Outside Air Systems	<b><u>Breakfast</u></b>	Air Systems
Jan. 13 Thursday	Colleen's	Commissioning	LEED Requirements	LEED / Joint Meeting with DVGBC
Feb. 10 Thursday	Colleen's	SMCA TBD	ASHRAE Distinguished Speaker	Joint Meeting with SMCA / Student Night
March 10 Thursday	TBD	Table Top Show	Panel Discussion	Research / Joint Meeting with GPBPA
April 14 Thursday	Colleen's	90.1 Controls	Control Logic	Past Presidents Night / Controls
May	Citizen's Bank Ballpark	Tour	Phillies Outing	Joint Meeting with GPBPA
June	Temple University		Planning Meeting	2005-2006

*We hope you will join us!*

## 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](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.

For Video Resume And Job Opportunities, visit online portal: [www.LookFirst.net](http://www.LookFirst.net)

Construction Management Association of America (CMAA)  
Mid Atlantic Chapter  
Welcomes  
All ASHRAE Philadelphia Chapter Members  
To The CMAA Meeting  
Every Second Tuesday of Every Month.  
Meeting Schedule Posted at:  
[www.cmaanet.org/mac/](http://www.cmaanet.org/mac/)

**Check the Calendar at**

**[www.gpbpa.org](http://www.gpbpa.org)**

**for further information  
on events for  
DVGBC, ASPE, SMCA,  
and other organizations!**

## ASHRAE Research Promotion - Your Help is Needed!

**Dear ASHRAE Members:**

During our Saturday meeting of the recent ASHRAE regional conference, we were informed that there has been a significant drop in the Research donations to ASHRAE from the chapters. There was a feeling that the economy was at fault and also that the previous program title of "Resource Promotion" was confusing the main purpose of the program.

I would like your help, and ask that you consider the many worthwhile research programs at Drexel, Penn State, and a few private research organizations in our immediate area. Detailed information about these programs can be found on the [www.ASHRAE.org](http://www.ASHRAE.org) web site. Our Philadelphia area received over \$550,000.00 from ASHRAE to support research.

I have included some of the past honor roll donors and corporations in this Climate on page 10 and a Donor Application Form on page 9 for your consideration. A more detailed listing will be sent in the ASHRAE National magazine in October. Please do not be concerned if you have donated recently and are not on the list due to the processing and advertisement lag time.

Please,

- 1) Copy the donor form. Circulate one copy and post a second copy in the break area for your associates.
- 2) **Please forward this to your company manager who may have corporate funds for research.**
- 3) Take a moment to fill this out and forward to Atlanta. Check to see if your company has a matching gift program.

If you have any questions, please feel free to contact me.

Sincerely yours,

Jay Halsey  
Senior Governor  
E-Mail: [JayHalsey001@aol.com](mailto:JayHalsey001@aol.com)

**ASHRAE RESEARCH - Donor Form  
Philadelphia Chapter 21 - Region 3**

**1) Type of Contribution;**

- Individual
- Corporate
- Memorial To: \_\_\_\_\_

Please attach the details for the acknowledgement 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: \_\_\_\_\_

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Phone : Home: \_\_\_\_\_ Business: \_\_\_\_\_

E-Mail: \_\_\_\_\_

**5) Send this completed form to:**

**ASHRAERESEARCH  
1791 Tullie Circle, NE  
Atlanta, GA 30329**

## **ASHRAE RESEARCH DONORS**

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33 Tankard Lane  
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TBD

## Corporate Sponsor Bios

### Arora Engineers, Inc.

Arora Engineers, Inc. provides full service Mechanical, Electrical, Plumbing, Fire Protection, and Special Systems design, engineering, and construction management. Our industries served include Aviation, Education, Transportation, Commercial Office, Financial, and Government.

#### HVAC

Our firm designs both new and retrofit HVAC projects using all air, all water, air/water, and unitary systems. Our expertise includes sizing and layout of heating and cooling central plants, including auxiliary equipment selection. Our staff is experienced with steam systems, including heritage vacuum and vapor systems. Frequently, these systems no longer function correctly. Our firm has unique ability to assess existing conditions, then make recommendations for repairs, upgrades, and replacements. We are familiar with campus energy systems, including steam, chilled water, and High Temperature Hot Water systems, including underground piping, condensate return, and heat exchangers.

#### PLUMBING

Arora Engineers, Inc. performs plumbing design for all types of buildings. Most design is to BOCA/ICC (International) Plumbing Code or National Standard Plumbing Code requirements. We are also experienced with Philadelphia's special requirements, including Philadelphia Plumbing Code, PGW requirements, and PWD backflow prevention and industrial waste regulations.

#### FIRE PROTECTION

Arora Engineers, Inc. performs fire protection design in house. We are experienced in the design of sprinklers, standpipes, and fire pump systems per applicable NFPA standards. Arora Engineers, Inc. is licensed by the State of Delaware Fire Marshall's Office to prepare sprinkle and other fire suppression systems plans.

For further information, check our web site at [www.aroraengineers.com](http://www.aroraengineers.com).

### Burns Engineering

Burns Engineering, Inc. provides mechanical (HVAC), plumbing, fire protection, electrical, telecommunications, civil and structure engineering design and construction management services. For more than 40 years, Burns has been serving clients in numerous markets and has established a reputation of customer service and technical quality.

Burns Engineering employs more than 100 professionals in offices in Edison, NJ, Philadelphia, PA, Pittsburgh, PA, McLean, VA, Wilmington, DE and Phoenix, AZ.

1835 Market Street, Suite 300  
Philadelphia, PA 19103  
215-563-9270

### Ernest D. Menold, Inc.

Ernest D. Menold, Inc. is a sheet metal contractor and specialty fabricator primarily serving pharmaceutical and industrial customers. We have a strong commitment to serving customers safely with quality installations. In the mechanical HVAC market, Ernest D. Menold, Inc. focuses on retrofit projects and process air handling systems for local facilities such as refineries, paper making plants, pharmaceutical plants, food manufacturers, and health care facilities.

In addition to measuring, fabricating and installing HVAC duct systems, Ernest D. Menold, Inc. is a NEBB certified balancing contractor, and has performed IAQ survey work which includes gas sampling and remediation recommendations.

Ernest D. Menold, Inc. is also a fabricator of stainless steel countertops, casework, doors, animal isolation booths, necropsy tables, process piping transfer panels, custom filter grilles, and other items for the food and drug industries. Our capabilities in this market are enhanced with our laser cutting machine and computerized press brake.

The chairman of the company, Ernest R. Menold, P.E., is an ASHRAE member. Ernest J. Menold, P.E., is the president of the company, and served as president of the Philadelphia Chapter of ASHRAE in 1996-97. Visit our web page at [www.Menold.com](http://www.Menold.com).

## Drexel and Temple Compete in ASHRAE Student Design Competition

Designing a cost-effective and energy-efficient HVAC system design for a performing arts building in Denver, CO was the challenge faced by the Drexel University and Temple University teams participating in the 2004 ASHRAE Student Design Competition. Both teams chose to participate in both the system selection and system design portions of the competition, and the teams received senior design credit for their work.

This competition offers students an opportunity to develop a complete design and analysis of an HVAC system for an actual building project. Both teams were fortunate to have team members with HVAC experience through an internship or co-op program prior to this design project. This was undoubtedly helpful given the requirements that the projects address indoor air quality, meet all applicable ASHRAE standards, be cost efficient, and account for environmental impact. Ironically, one of the greatest challenges the teams faced was not technical; rather it was the requirement that a year's worth of design and analysis be condensed into a 35-page report.

The reports were the key product of the year-long process and were submitted to the Philadelphia Chapter for evaluation. The Drexel project was selected for consideration in the regional competition and eventually moved on to the national competition. Ultimately, Penn State and Ferris State took the top honors in the system selection and system design areas respectively. More information from the 2004 competition and information about the 2005 competition is available in the Student Zone of the ASHRAE website.

### Drexel University Team

Team Members: John Marchiafava, James Piscopo, Gary Stroh, Sari Tukianen, Joan Ward  
Faculty Advisor: Dr. Agami Reddy

### Temple University Team

Team Members: James Shackett, Andrew Christofas, Philip Hausler  
Faculty Advisor: Dr. Steven Ridenour



Drexel team members (from left to right)  
Jim Piscopo, Gary Stroh, Sari Tukianen, Joan Ward  
and John Marchiafava

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

The Philadelphia Chapter of the  
American Society of Heating, Refrigerating  
and Air Conditioning Engineers, Inc.  
994 Old Eagle School Road, Suite 1019  
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or call: 215-862-5304  
or fax: 215-862-5304

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

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