



Volume 43, No. 7
March 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
Table Top Vendor Show
See page 3 for a list of vendors.

Dinner Presentation
LEED
Measurement and Verification
presented by
Matt Dugan
DVL Automation

Thursday, March 13, 2008

Joint Meeting with AEE

5:00 pm to 6:30 pm
Table Top Vendor Show and
Pre-dinner Social Hour
Cash Bar

6:30 pm to 8:00 pm
Dinner and Presentation

NEW!
Check out our online registration!
Go to

<http://www.acteva.com/booking.cfm?bevaaid=153840>

**Table Top Vendors may also
register online.**

STRENGTHEN OUR MEMBERSHIP!

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

LOCATION

Fisher's Tudor House
1858 Street Road
Bensalem, PA 19020

For parking and other information, go to:
www.fisherstudor.com

FOR RESERVATIONS

Register Online (see below)

Or Call (610) 971-2169

Or Email

philachapter@mail.ashrae.org

RESERVATION NOTICE

Reservations must be made
no later than 12:00 Noon
on Monday, March 10, 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

ASHRAE of Philadelphia welcomes The Association of Energy Engineers to join us as we meet together this month. March is also our Annual Table Top Vender Show. We also welcome Matt Dugan of DVL who is presenting “LEED Measurement and Verification” in our dinner presentation. We have a full venue on tap and I look forward to joining everybody in a very informative night.

We are also introducing ACTEVA this month. This is an on-line registration method to help ease meeting registration. We have introduced this new method in an effort to assist the membership in the registration process.

About a month ago, a few of our Member Consulting Firms received phone calls from people noting that they were calling on behalf of Philadelphia ASHRAE. They are presenting themselves as offering a series of free ASHRAE Learning Institute weekend courses to be held in June on HVAC, electrical, and plumbing issues. Apparently they are stating that both PDH and certification credits would be offered. They then ask for the names and titles of your employees working at the company so that they could send “*invitations*” out. **This offer was not sponsored or sanctioned by ASHRAE of Philadelphia or ASHRAE Society.** This solicitation was most likely an attempt to get the names of the employees on staff. Other engineering societies have apparently experienced this same issue. At this point, this solicitation has only been noted on a very limited basis in a short time frame about 4 weeks ago. If you or your firm get a call representing a similar offer by ASHRAE of Philadelphia, please check the validity of the offer through our local office before responding.

Andrew O’Pella

March Speaker Bio

Matt Dugan

Matt Dugan is currently the president of DVL Automation, the building automation systems integrator offering unique solutions to the challenges of Green design. He regularly consults with owners, developers, designers, architects, and construction firms to help develop cost-effective HVAC subsystems which interact with the total building systems to earn LEED pre-requisites and credits. Prior to this position, he acted in behalf of the Trane Company in a design leadership role focused on the commercial office sector. Based in Delaware Valley Region, Matt now operates across all market sectors in most regions of the US where clients have required innovative solutions. He is best known in the Philadelphia ASHRAE community as the saucy Refrigeration instructor in our own Basic Engineering training class. Now focused on Green design, Matt is a member of the DVGBC Education committee dedicated to insuring that ASHRAE remain a leader in LEED design.

March Presentation

LEED Measurement & Verification(M&V)

The MOST Important Point to Insure Sustainability

Developments in energy modeling have permitted an opportunity to predict how HVAC systems will operate efficiently, however M&V is the tool to insure that our modeling in actually implemented and sustained. We will investigate how M&V planning is developed as well as innovations in cost-effective execution. Also the latest expectations of Fault Detection & Diagnosis (FD&D), to insure that initial commissioning is sustained through the life of the project, will be explored in this session.

PDH Credits Available for January Meeting

If you attended the January 10th meeting of the Philadelphia Chapter of ASHRAE with Terry Townsend speaking on “A Call to Action for a Sustainable Future”, and you would like to receive 2 AIA/CES (HSW) Learning Units, please reply contact Jeff Gilbeaux at galengineering@comcast.net or 856-231-5340 with your name, license number and state for which you would like the credits registered.

**PHILADELPHIA CHAPTER ASHRAE
2007 - 2008 PROGRAMS**

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

Date	Location	Pre-Dinner Topic	Dinner Topic	Theme
Thursday March 13	Fisher's Tudor House	Table Top Vendor Show	LEED M&V	Membership Joint Mtg with AEE
Thursday April 10	TBD	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 June 12	Temple University	2008-2009 Planning Meeting		
Friday May 30	Golf Outing			

PLEASE COPY AND POST ON YOUR BULLETIN BOARD AT WORK.

**March Meeting
Table Top Vendors**
(signed up as of March 4)

Associated Steam Specialty Co.

Belimo Aircontrols USA, Inc.

BJ Terroni Company

Clapp Associates, Inc.

Energy Transfer Solutions, Inc.

Environmental Systems Group

General Aire Systems, Inc.

John F. Scanlan Inc.

Kestrel Pocket Weather Meters

Kriebel Engineered Equipment Ltd

Mitsubishi Electric

National Air Filter

RD Bitzer Co. Inc.

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	\$ _____

February Meeting Photos



Panel Discussion Members (from left to right): Larry Snyder, Ken Strup, Joe Smaul, Tom DeMusis, and Matthew Sano



February Meeting Photos



Recipients of the SMCA book grants, along with their faculty advisors (from left to right): Prof. Steve Ridenour, Marc Antonioli, Jason Maskinas, Prof. Zhongping Huang, Ernie J. Menold (SMCA President), Paul Yuskevich, and Prof. Agami Reddy.

We would like to thank the Sheet Metal Contractors Association for providing book scholarships to the award recipients from our local student branches.

We appreciate their continued support.



Job Opportunity

Check our web site, www.ashrae-phila.org, for more job openings.

United CoolAir Corporation, a leading provider of quality air conditioning systems for the commercial building industry specializing in flexible air conditioning systems for difficult applications, has an opening for a Design / Application Engineer.

This HVAC OEM needs an energetic, self-motivated application engineer who will be responsible for providing application and technical support to the distributors and the customers. Knowledge of Solid Works a plus. BSME plus 3 years of experience in HVAC is desirable.

Essential duties include: size / select / modify equipment / components for job specific applications; research and analyze data such as customer design proposal, specifications and manuals to determine feasibility of design or application; design and/or specify products or systems such as instruments, controls and mechanical, thermal, hydraulic or heat transfer systems; and compile and analyze operational test and research data to establish performance standards for existing, newly designed or modified equipment or product.

Salary is negotiable. Benefit package available. Pre-employment physical and drug screening required. See our company profile at www.unitedcoolair.com.

Respond to: Martha Wagaman
United Coolair Corp.
491 E. Princess St. – PO Box 5085
York, PA 17405
Phone: 717-843-4311 ext 34
Fax: 717-854-4462
Email: mwagaman@unitedcoolair.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.

**PROFESSIONAL ENERGY CODE SEMINAR ANSI/ASHRAE/IESNA STANDARD 90.1-2004
ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS**

**ONE-DAY SEMINAR CO-SPONSORED BY –
THE CENTRAL PENNSYLVANIA CHAPTER OF ASHRAE
PA DEPARTMENT OF ENVIRONMENTAL PROTECTION
GOVERNOR'S GREEN GOVERNMENT COUNCIL**

Wednesday, March 19, 2008

**Pennsylvania Department of Environmental Protection
Rachel Carson State Office Building
400 Market Street
Harrisburg, PA 17105**

Link for directions and parking - <http://www.depweb.state.pa.us/dep/cwp/view.asp?a=3&q=474491>

OBJECTIVE

As states and local governments adopt ANSI/ASHRAE/IESNA Standard 90.1, "Energy Standard for Buildings Except Low Rise Residential Buildings" and building owners require compliance, ASHRAE is responding to requests to provide in-depth training on the Standard. New Jersey requires compliance with the Standard. Pennsylvania has adopted the 2006 International Energy Conservation Code (IECC) as part of the mandatory statewide Uniform Construction Code (Act 45), which includes an option for compliance with the Standard. New York is proposing an option in their Code for the Standard. Most other states adopt and enforce the IECC.

The Standard sets the minimum requirements for energy use in buildings except low-rise residential buildings and the methodology to attain these goals. It differs from past Standards as it addresses not only new construction but also additions and renovations to existing facilities. This Standard is also the sole mandatory minimum energy benchmark for the US Green Building Council Leadership in Energy and Environmental Design (LEED-NC®) program and for the Federal tax deductions available under the 2005 Energy Policy Act (EPACT).

WHO SHOULD ATTEND

Architects, Engineers, Building Owners, Code Officials, Building Managers, Contractors, Equipment Manufacturers and their Representatives, Students, and other parties involved with construction, renovation, and operation of facilities. Continuing education certificates and credits will be offered, including those for AIA and Florida professional licenses.

REGISTRATION

Attention: Thomas Long Phone: 717.763.7211

Email: thomas.long@mail.ashrae.org Fax: 717.763.9357

Email Tom Long with the following information:

NAME, COMPANY, ADDRESS, PHONE#, FAX #, EMAIL, and if the books are not wanted.

Checks to be made out to: CENTRAL PA CHAPTER ASHRAE. Sorry, we do not accept credit cards.

Mail checks to: ASHRAE, c/o T. Long, Gannett Fleming, Inc., PO Box 67100, Harrisburg, PA 17106-7100

REGISTRATION FEES

The fee for the seminar is \$150 with the Standard and User's Manual, or \$70 without Standard and User's Manual. Full Time Students and Full Time Code Officials receiving books are invited at a discounted fee of \$120 with the Standard and User's Manual, or \$40 without the books. The Registration Fee includes:

- Instruction on the application of the Standard to be presented by eminent industry professionals.
- Copies of both Standard 90.1-2004 and the associated User's Manual. If purchased independently the cost for these two books alone would be \$203.00 for non-ASHRAE members and \$162.00 for ASHRAE members.
- Lunch and Breaks

(continued on next page)

SEMINAR SCHEDULE

REGISTRATION – 8:30 AM

1ST MORNING SESSION - 9:00 AM

Introduction of presenters
Overview/Organization of ASHRAE 90.1-2004

BREAK – 10:15 AM

2ND MORNING SESSION – 10:30 AM

Building Envelope compliance

LUNCH - 12:00 PM

1ST AFTERNOON SESSION - 12:45 PM

HVAC compliance
Service Water Heating compliance

BREAK – 2:45 PM

2ND AFTERNOON SESSION - 3:00 PM

Power compliance and Lighting compliance
Users Manual and ASHRAE Services
Concluding remarks

FINISH - 5:00 PM

SPEAKERS**Lawrence G. Spielvogel, PE**

He is an ASHRAE Fellow and Distinguished Lecturer. Mr. Spielvogel previously served on and chaired the ASHRAE Homeland Security and Advocacy Committees, the ANSI/ASHRAE/IESNA Standard 90.1 Project Committee, ASHRAE Standard 105 on Building Energy Performance, the Standard 90 Panel on HVAC Systems, and ASHRAE technical committees on energy utilization, computer applications, and service water heating. He is also a Fellow of CIBSE (Chartered Institution of Building Services Engineers) (England), a Fellow of SLL (Society of Light and Lighting) (England), and a member of many other technical societies.

Lou Rugulo, P.E., CEM

Mr. Rugulo has over 18 years experience as a project manager and energy engineer, specializing in the development and implementation of demand-side management solutions for major clients as well as assisting clients in taking advantage of the various energy incentive programs available in the area, including financing, rebate and grant programs. Mr. Rugulo's experience encompasses design, retrofit, and troubleshooting of HVAC systems in a variety of applications such as residential, commercial, laboratory, clean room, industrial and aircraft settings. Mr. Rugulo has a B.S. in Mechanical Engineering, is a licensed Professional Engineer, and is an Adjunct Professor at Stevens Institute of Technology.

Larry Kouma

Mr. Kouma is a Senior Product Manager at Johnson Controls and has been working in the HVAC industry for more than 15 years. He has experience with hydronic system design including product and application support for steam and chilled water systems. He currently leads a team responsible for R&D direction, product planning and engineering, application support, and system integration for large chilled water equipment. He is a current voting member of the SSPC 90.1 Committee, including active membership on the Mechanical Subcommittee. He has a BS in Mechanical Engineering and an MBA in Finance.

Carl M. Watson, PE, LC

A member of IESNA for over 25 years and a registered engineer, he is an award winning lighting designer, author, and electrical engineer. He has BS in EE and an MBA from Drexel University. He is also a member of IEEE and NSPE and is Lighting Certified by the National Council on Qualifications for the Lighting Professions. He specializes in developing and implementing very effective energy management solutions that optimize aesthetics, efficiency, and maintainability. Past projects have included lighting design, power quality and energy studies for office buildings, health care facilities, banks, schools, churches, multi-family residential, parking, and municipal facilities.

Special Guest Speaker - Cyrus Nasser

Mr. Nasser is head of the Design, Operation, Maintenance, and Procurement Program in the Federal Energy Management Program at the U.S. Department of Energy. He is in charge of implementing Laws and rulemaking for energy efficiency for all Federal buildings.

**ATTENDANCE IS LIMITED -
PLEASE RESPOND BEFORE March 7, 2008**

2008 Design on the Delaware Call for Presentations

2008 Design on the Delaware Regional Conference
Wednesday, Thursday & Friday, November 5, 6 & 7, 2008
Sheraton Philadelphia City Center, Philadelphia, PA

Don't miss your opportunity to present and participate in the 6th annual Design on the Delaware Conference. We invite knowledgeable, articulate individuals willing to share their expertise and real-world experience to submit presentation proposals for the conference.

Design on the Delaware convenes design, planning, and building professionals and business, and public leaders from throughout the Mid-Atlantic region for two compelling days of professional education, crossboundary exploration, social engagement, and networking. Participants will gain new perspectives from related fields, a deeper knowledge of their own profession, information from industry suppliers, a view into the public realm and, most of all contacts and experiences that will enhance their professional capabilities.

AIA Philadelphia, in conjunction with other regional AIA chapters and affiliated organizations in design, planning and construction in the Delaware Valley Region, presents the 6th annual Design on the Delaware Conference. This three-day conference features a self-directed, facilitated learning environment with education sessions, product and technology exhibits, collegial networking opportunities, and tours. Education sessions focus on current issues, practices, and professional challenges facing architects, landscape architects, planners, other design professionals, contractors, business leaders, and affiliated professionals in the design, planning, and building industries. This conference is unique in the Greater Philadelphia region and provides an invaluable opportunity to maximize one's exposure and actively contribute to this arena of shared knowledge!

March 17, 2008

Deadline for proposals submissions will be accepted until 5:00 pm (Eastern time).

March – April 2008

Programs reviewed and selected for presentation.

April - May 2008

Program Presenters informed and scheduled for conference.

Submission Process

Submit proposals (email preferred) to Pat Gourley, Director of Programs & Special Events, at pat@aiaphila.org.

Until February 28th, proposals can be mailed to Pat Gourley, AIA Philadelphia, 117 South 17th St, Philadelphia, PA 19103.

After March 1st, proposals should be sent to Pat Gourley, AIA Philadelphia, 1216 Arch Street, Philadelphia, PA 19107. AIA Philadelphia is moving sometime in March so it is strongly recommended to submit your proposal via email. Proposals will be accepted until 5:00 p.m. (Eastern Time) on **March 17, 2008**.

Include the name and contact information (company name, mailing address, phone and fax numbers, and email address) of the person submitting the program. This person will serve as the primary contact, will be informed if the program is accepted and is responsible for informing program speakers. (This person does not have to be a speaker.)

Questions? Pat Gourley, Director of Programs & Special Event, at pat@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 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.

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.

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.

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

Inside This Issue

	Page
Meeting Announcement	1
President's Message	2
Presentation & Speaker Bio	2
Chapter Event Schedule	3
Table Top Vendor List	3
Golf Outing Info	4
February Meeting Photos	5 & 6
Employment & Internship Opportunities	7
Standard 90.1-2004 Seminar	8 & 9
Design on the Delaware	10
Membership Grade Announcements	11

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

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
Wayne, PA 19087-1866
610.971.2169
fax 610.971.4859
ashrae-phila.org

Republication of material contained herein
is expressly forbidden without official Chapter authorization.
The Chapter does not speak or act for the Society.
Any member with material to submit for inclusion
in the *Climate* can send the information to:

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

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