



Volume 40, No. 7
March 2005

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

Compliant HVAC Systems:
The FDA and Good Automation
Manufacturing Practices (GAMP)

Presented by
George Breig
Honeywell

After-Dinner Presentation

XML-Soap,
Building Control Integration

Presented by
Matt Dugan
DVL Automation

Thursday, March 10, 2005

Research Promotion Night
and Joint Meeting with GPBPA

5:00 to 5:45pm
Pre-Dinner Presentation

5:45pm - 6:15pm
Cocktails and Hors D'oeuvres

6:15pm to 7:00pm
Dinner

7:00pm to 7:45pm
After-Dinner Presentation

7:45pm to 8:00pm
Conclusion

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

Self-parking is available in the
underground garage for only \$5.

FOR RESERVATIONS

Call (610) 971-2169

Or Email

hope@multiservicemgmt.com

RESERVATION NOTICE

Reservations must be made by
no later than 12:00 Noon
2 days prior to the meeting date.

COSTS

Local Chapter Members Reservation
\$30

Late Registrations & Walk-ups
\$45

Non-local Dues Paying Members
\$35

Members 30 years & under
Discount \$10

Student Members
\$10

Reservations not cancelled by 12:00 noon
2 days prior to the meeting date will be
billed the full amount.

The Chapter will no longer
bear the cost of "no-show" meals.

President's Message

Did you know that the third week in February is National Engineers Week?

That time was chosen because George Washington was born on February 22 and the founding father of our country was a surveyor in his earlier days. The week is designed to raise public awareness of engineers' positive contributions to quality of life. Thousands of your fellow colleagues from all engineering disciplines throughout the country will be taking part in this event. Many of the outreach programs emphasize the importance of math and science to the "next generation" of children and young adults.

Our ASHRAE chapter has participated in the local Future Cities Competition. The competition asks students, working in teams and under the guidance of a teacher and a volunteer engineer mentor from the community, to design a city of the future and include a plan that helps meet a particular social need.

Students build their cities first on computer using *SimCity 3000* software, donated to each school by Maxis, a division of Electronic Arts, and then in large three-dimensional scale models. They must also write an abstract describing their city, and an essay in which, this year, they must answer, "How can futuristic transportation systems efficiently use aggregate materials as a basic construction product?"

Engineering advances our understanding of the world around us and spurs progress in important areas including technology, communications, defense, manufacturing, energy, and the environment. Engineers Week provides an opportunity to recognize the many accomplishments of America's engineers and the positive impact they have on our quality of life.

So pat yourself on the back, have a piece of cherry pie and be proud to be an engineer.

Steve Ridenour

215.204.8825

steven.ridenour@temple.edu

Speaker and Presentation Info

"Compliant HVAC Systems: The FDA and Good Automation Manufacturing Practices (GAMP)"

Pharmaceutical Companies are regulated by the FDA. Not only are their products approved for sale, but, also their manufacturing processes. This includes HVAC equipment and controls in critical areas. GAMP, and other deliverables will be discussed to examine what needs to be known about this market segment.

George Breig is an application consultant specializing in FDA Compliance, at Honeywell. During the past twenty-five years, he has held various engineering positions in Instrumentation and Control. During the past 8 years, he has focused on FDA- 21CFR compliance. George is a graduate of Temple University and a member of ISPE, ASHRAE, and ISA.

"XML-Soap, Building Control Integration"

XML-Soap and its revolutionizing interoperability impact on building automation systems and their interface with other non-HVAC systems will be described.

Matt Dugan, ASHRAE instructor on Refrigeration for 12 years, Villanova Mechanical Engineer, formerly of Trane and Carrier, now of DVL Automation. Matt is well known to the members of our Chapter and has supported its efforts over the years.

ASHRAE Volunteers are Needed

Can you spare a few minutes a month to help on one of the following committees for the Philadelphia Chapter?

Membership Promotion Committee
Program Committee
Research Promotion Committee
Refrigeration Committee
Technical, Energy & Government Activities Committee
Student Activities Committee

Please send an email to our Volunteer Chairman, Jay Halsey, at JayHalsey001@aol.com to identify your interests to participate.

February Meeting Photos



Matt Chaplin of Tozour-Trane, and a Chapter Past President, is presented a Liberty Bell for his presentation on mold & mildew.



Mark MacCracken, PE, Pte., of CALMAC Manufacturing Corporation, is presented a Liberty Bell for his presentation on thermal energy storage and LEED.

Nominating Committee Presents Nominees

On behalf of the Philadelphia Chapter Nominating Committee, Mark Hershman, Chairman, is pleased to present the nominees for the Board of Governors for the Philadelphia Chapter of ASHRAE for the Chapter Year 2005-2006.

Board Position	Nominee
President	Kenneth Strup
President-Elect	Stephen Piccolo
Vice President	John Pardekiooper, PE
Treasurer	Andrew O'Pella, PE
Senior Governor	Steven Ridenour, PE
Governor	Bob Carpenter
Governor	Jeffrey Gilbeaux, PE
Governor	Brett Jenner
Governor	Bill Hart

Nominating Committee Members also included Dave Hersh, Steve Solotist, and Jay Halsey.

Tax Deductible Gifts to ASHRAE Research Are Doubled by ASHRAE Society

Please help the ASHRAE Research 2005-2005 Fund Drive by filling out the Donor Form on the next page and sending it to national headquarters in Atlanta this week. Have you asked your company if they have a matching gift program? Remember every dollar you donate to this worthy cause is doubled by ASHRAE Society! If you have any questions, please contact me.

Thank You,

Jay Halsey
Research Program Chairman

JayHalsey@HCNyeCo.com

It's Not Too Late to Advertise!

Advertisements for the 2005-2006
Directory of Manufacturers' Representatives in the Philadelphia Area
will be accepted until
March 11, 2005.
Call Hope Silverman at 610-971-2169
if you are interested.

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: _____

Phone : Home: _____ Business: _____

E-Mail: _____

5) Send this completed form to:

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

PHILADELPHIA CHAPTER ASHRAE 2004 - 2005 PROGRAMS

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

Date	Location	Pre-Dinner Topic	Dinner Topic	Theme
March 10 Thursday	Colleen's	90.1 Controls	Control Logic	Research / Joint Meeting with GPBPA
April 14 Thursday	Cescaphe	Table Top Show	Panel Discussion	Past Presidents Night
May	Citizen's Bank Ballpark	Tour	Phillies Outing	Joint Meeting with GPBPA
June	Temple University		Planning Meeting	2005-2006

Tell a Friend about www.gpbpa.org!

Please inform your associates at work and your technical associates outside of work about the new www.gpbpa.org web site. It is free and was developed for all technical people in the Philadelphia area so that we can better communicate and share seminars and training programs via this web site. A left click on the calendar will give the reader the events/seminars/training programs for the month. You can even check events in future months by clicking on the arrow above the calendar.

Don't forget to sign up for an automatic monthly distribution once on the home page.

Welcome Aboard!

The Philadelphia Chapter recognizes the following new member for the month of February 2005:

Brendan Murphy
District Sales Manager
Lochinvar
Cell: 215-519-1348

Brian J. Alexy
Inside Sales Engineer
Carrier
Cell: 404-441-3082

!! NEW !! AFFILIATE MEMBERSHIP GRADE

For an Annual Dues of \$40, Applicants under Age 30 can Join ASHRAE at this introductory membership level. Membership tenure in this grade is limited to three (3) years.

Affiliate Members Benefits Affiliate Members receive monthly issues of the ASHRAE Journal and Insights Newsletter. The annual handbook is not a benefit of this grade.

Qualifications

An Affiliate Member shall have the same qualifications as an Associate Member. They are:

1. Experience in technical matters or in design, operation, or maintenance in heating, refrigerating, air conditioning, or ventilating fields.
2. An interest in the in the advancement of the Society's aims.
3. Possess sufficient qualifications to cooperate with heating, refrigerating, air conditioning, or ventilating engineers in the advancement of relating to heating, refrigerating, air conditioning, or ventilating engineering and its application.

Limitations

- You do not receive ASHRAE Handbook with membership. You do not receive *ASHRAE Insights*. You get a one-time discount (20% off) on all Handbook items.
- You can serve on Chapter committees, but cannot hold office or vote at Chapter, Regional or Society level.

Contact For Receiving Application

Go to www.ashrae.org and click on "Join" in the upper right corner. This will take you to a page describing each membership grade, its benefits and qualifications, and a link to membership application forms.

MEMBERSHIP ADVANCEMENT!

Any Associate Member meeting the following requirement can apply for Advancement to the more entitling Member grade. By ASHRAE society definition:

A member shall have the equivalent of twelve society-approved years of experience composed of an approved combination of: (a) completed education beyond high school, (b) work experience, and (c) professional engineering or related registration or license issued by a legally authorized body.

All technical and scientific education shall be based on curricula approved by the Board of Directors.

Approved engineering curricula shall be equivalent to the accredited by the Accreditation Board of Engineering and Technology in the United States of America or the Canadian Engineering Accreditation Board. Scientific education in fields other than engineering shall be from a college or university course of study that has been accredited by an organization charged with monitoring standards of performance. *Society approved years of experience shall be credited as follows:*

One and one-half years of credit for each year of completed education for graduates of approved technical curricula. One year of credit for each year of education for non-graduates who have completed a least two years of approved technical curricula. One year of credit for each year of completed education for graduates of colleges or universities which do not have accreditations. Those holding associated degrees from technical institutions shall also be credited for one year for each year of education.

One year for each year of qualifying work experiences in the performance of duties in work related to ASHRAE fields of interest and shall have included research, teaching, design, contracting, engineering sales or engineering management.

Three years of credit for professional registration of license issued by a legally authorized body in engineering or related fields, the requirements of which as to education, examination, and active practice are satisfactory to the Board of Directors.

More information is available on the ASHRAE website (www.ASHRAE.org) under menu items Membership Resources...Manage Your Membership, the above definition is extracted from such application information in PDF file format. The application can also be filled interactively online. ASHRAE sends members who upgrade a \$20 gift certificate usable at the ASHRAE bookstore or towards ASHRAE membership renewal.

**PROFESSIONAL ENERGY CODE SEMINAR
ANSI/ASHRAE/IESNA STANDARD 90.1-2001
ENERGY STANDARD FOR BUILDINGS
EXCEPT LOW-RISE RESIDENTIAL BUILDINGS**

ONE DAY SEMINAR SPONSORED BY THE PHILADELPHIA CHAPTER OF ASHRAE

March 22, 2005

Atlantic City Convention Center, 3^d Floor, Atlantic City, NJ

OBJECTIVE

As states and local governments adopt ANSI/ASHRAE/IESNA Standard 90.1, and Owners require compliance, ASHRAE is responding to requests to provide training on the Standard. New Jersey requires compliance with the Standard. Pennsylvania has just adopted the International Energy Conservation Code (IECC) as part of the new mandatory statewide Uniform Construction Code (Act 45) to become effective 2004, which includes a requirement for compliance with the Standard.

The Standard sets the minimum requirements for energy use in buildings except low-rise residential buildings and the methodology to attain these goals. The Standard differs from past Standards as it addresses not only new construction but also renovations to existing facilities. This Standard is also the mandatory minimum energy benchmark for the US Green Building Council Leadership in Energy and Environmental Design (LEED) program.

WHO SHOULD ATTEND

Architects, Engineers, Building Owners, Code Officials, Building Managers, Contractors, Students, and other parties involved with construction, renovation, and operation of facilities.

REGISTRATION

This ASHRAE seminar is also being offered as a pre-conference seminar at The Association of Energy Engineer's annual Globalcon event. Seminar attendees are invited to attend the AEE Globalcon conference at a reduced VIP rate. The online registration form for the ASHRAE Seminar and the AEE Globalcon event is at www.aeecenter.org/ashraeseminar. Full Time Students and Full Time Code Officials who are applying for a discount should contact Hope Silverman directly.

**For questions regarding the ASHRAE seminar,
or if you are a Full Time Student or Full Time Code Official applying for a discount,
contact Hope Silverman**

Phone: 610-971-2169

Email: hope@multiservicemgmt.com

For questions regarding GLOBALCON 2005
Call: 770-447-5083 Or Email: info@aeecenter.org

REGISTRATION FEES

The fee for the seminar is \$150 (with 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 discount of \$120 (with Standard and User's Manual) and \$40 (without Standard and User's Manual). (*Note: Full Time Students and Full Time Code Officials who are applying for a discount should contact Hope Silverman directly to register.*) This Fee includes:

- Instruction regarding the application of the Standard to be presented by eminent industry professionals.
- Copies of both Standard 90.1-2001 and the associated User's Manual. If purchased independently the cost for these would be \$195.00 (non-ASHRAE members) and \$157.00 (ASHRAE members).
- Lunch.

SEMINAR SCHEDULE

REGISTRATION - 9:15 AM

MORNING SESSION - 9:45 AM

*Introduction of presenters
Overview/Organization of ASHRAE 90.1-2001
Building Envelope compliance*

LUNCH - 12:45PM

AFTERNOON SESSION - 1:45 PM

*HVAC compliance
Service Water Heating compliance*

BREAK

AFTERNOON SESSION - 3:45 PM

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

FINISH - 5:30 PM

SPEAKERS

Lawrence G. Spielvogel, PE

He is currently an ASHRAE Director at Large, a Fellow, and serves on Members Council. Mr. Spielvogel now chairs the ASHRAE Homeland Security Committee, and previously chaired 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), a member of the ACEC (American Council of Engineering Companies), and a member of many other technical societies.

Lou Rugulo, P.E., CEM

Mr. Rugulo has over 16 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 Bachelors in Engineering, is a licensed Professional Engineer, and is also an Adjunct Professor at Stevens Institute of Technology.

Larry Kouma

Mr. Kouma is a Senior Product Manager at York International and has been working in the HVAC industry for more than 13 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.

James A. Clark, CEM

Mr. Clark has over 20 years experience in the energy industry. He has conducted energy conservation audits and developed Performance Contracting projects and proposals. He has designed and project managed the installation of Cogeneration plants. He has a BS in Mechanical Engineering and is a Certified Energy Manager. He has received local and national awards for accomplishments in the energy field. He is a member of ASHRAE and AEE. He is on the Greater Philadelphia Chapter of AEE Board and was the 2003/2004 Chapter President.

ATTENDANCE IS LIMITED - PLEASE RESPOND BEFORE March 8, 2005

**US Green Building Council - New Jersey Chapter
Labs21 High-Performance Design Course**

Thursday, April 7, 2005

8:00am - 4:00pm

Janssen Pharmaceuticals

1125 Trenton-Harbourton Road

Titusville, NJ

Guest Speakers:

Paul Mathew (Lawrence Berkeley National Labs) & Dan Amon (Environmental Protection Agency)

Course Description

The Labs21 High Performance, Low-Energy Design Course is a full-day workshop that introduces strategies for designing and constructing sustainable laboratories in both new and existing facilities. While designed as an introductory course, those familiar with sustainable laboratory design are also welcome to attend and contribute to the discussion.

Course topics include:

- The Architecture of High Performance Labs
- The Energy Efficient Design Process
- Air Supply and Distribution Systems
- Laboratory Exhaust Systems
- Direct Digital Controls
- Commissioning
- Lighting
- Case Studies
- Resources and Tools

AIA/CES Learning Units – 6.0 credits

6.0 PDH credits for Professional Engineers

Registration:

Early Bird Registration March 25, 2005

\$195/non-USGBC-NJ member

\$175/USGBC-NJ member

After March 25th

\$225/non-USGBC-NJ member

\$200/USGBC-NJ member

To register: <http://www.acteva.com/booking.cfm?bevaaid=80110>

Must pre-register by April 4, 2005 All reservations are made through Acteva.

Purchase/refund policy: Refunds will not be given within 48 hours of the event

To sponsor this event go to: <http://www.acteva.com/booking.cfm?bevaaid=80110>

Check the Calendar at
www.gpbpa.org
for further information
on events for
DVGBC, ASPE, SMCA,
and other organizations!



ASHRAE members are invited to join the DVGBC for other upcoming events:

- **Renewable On-Site Energy:** (Mar. 10), Presentation on financing and installation of on-site renewable energy systems such as photovoltaics.
- **Green Material — Cost & Benefits:** (Apr. 14), Panel discussion on green materials.

See <http://www.dvgbc.org/> for more details.

Member Services

Members who would like stay on top of the latest news from ASHRAE may join the News Release List Serve at <http://www.ashrae.org/template/AboutLinkLanding/category/1584>.

If you or your company are hiring, please take a moment to review the resumé of chapter members and students which have been posted on the chapter website at www.ashrae-phila.org/resumes.html.

Any member who wishes to have their resumé posted on our website, or who would like to update it, can email our webmaster, Seth Weiss, at sweiss@comcast.net. The file must be in pdf format and will be posted for 3 months.

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

Looking for work, see job posted at STEP, Inc.
S.T.E.P., Inc.
100 Highpoint Drive
Suite 104
Chalfont, PA 18914
P: 1.215.996.1255
F: 1.215.996.1266
www.step-inc.com

Send an updated resume to admin@step-inc.com in Microsoft Word format to be considered for any of these opportunities or to be kept posted as you are. Feel free to contact us with any questions.

Keep in mind that this is a totally FREE SERVICE to any of our applicant clients. There is nothing to sign, nothing to agree to.

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

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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:



Reynold Pratt
23 A Riverhill
New Hope, PA 18938
or email: rpratt@comcast.net
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.**