



Volume 41, No. 2
October 2005

PHILADELPHIA CHAPTER

Wednesday, October 26, 2005

SMCA'S ENGINEERS NIGHT

PROGRAM

5:00 PM

Cocktail Reception
with Vendor Displays

6:30 PM

Dinner
and Presentation

"HVAC Duct Construction Standards"
Mr. Robert J. Wasilewski
Project Manager, Technical Resources
SMACNA's National Headquarters

COST

No Cost for
ASHRAE Consulting Engineers
as Guests of SMCA

All other ASHRAE
Philadelphia Chapter Members
are \$30 (discounted price)
Advance registration and
pre-payment are required.

DIRECTIONS

See page 3
for directions to the
Philadelphia Marriott Hotel.

LOCATION

Philadelphia Marriott Downtown
Liberty Ballroom
1201 Market Street
Philadelphia, PA 19107
215-625-2900

Valet parking is around the back of
the hotel on Filbert Street.
First-come, first-serve on-site parking
is available at the hotel.

RESERVATION NOTICE

Reservations and pre-payment must be
received before October 18
for all ASHRAE Philadelphia
Chapter Members.

ASHRAE Consulting Engineers
may respond directly to SMCA of
Philadelphia by fax at 610-828-4625, or
by email to dvalentine@smca.org.

FOR RESERVATIONS

Call (610) 971-2169
Or Email hope@multiservicemgmt.com

Quaker City CLIMATE

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

Greater Philadelphia Plant Engineering and Facilities Maintenance Show

Two seminars sponsored by the Philadelphia Chapter of ASHRAE on ANSI/ASHRAE/IESNA Standard 90.1 and on homeland security



issues for facilities (both offered for PDH credit) are among the free, high-interest presentations to be featured at the Greater Philadelphia Plant Engineering and Facilities Maintenance Show and Conference on November 2 and 3 at the Valley Forge Convention Center, 1160 First Ave., King of Prussia, PA. The event, produced by Cygnus Expositions, is directed to the interests of plant, facilities, and maintenance engineers in the region, and features exhibits and seminars, both free to attendees. The Philadelphia Chapter of ASHRAE is a co-sponsor of the event.

Other topics on the conference program include: predictive maintenance, mold remediation, e-training, maintenance and care of cooling towers, team building, indoor air quality, measurement of maintenance activities, green buildings, and computerized maintenance management systems.

The hours for the show are from 10 am to 3 pm on both November 2 and 3; the conference hours are 9 am to 2 pm on both days. More information on the show and conference can be obtained from the web-site: www.proshows.com/gppe or by calling Cygnus at (800) 827-8009.

05-06 Directories Available Now!

The 2005-2006 Directory of Consulting Firms and Manufacturers' Representatives in the Philadelphia Area is now available for \$20 each. To order your copy, send your check, payable to "Philadelphia Chapter ASHRAE", to:

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

2005 SMCA ENGINEERS NIGHT

Following the success of last year's joint meeting, we pleased to hold our October monthly meeting in conjunction with SMCA's Annual Engineers Night.

The Sheet Metal Contractors Association of Philadelphia and Vicinity's Education/Technical Committee have cordially invited ASHRAE Members and Consulting Engineers to attend their 2005 Engineers Night on October 26, 2005.

This year, the event will be held in the Liberty Ballroom of the Philadelphia Marriott Downtown, 1201 Market Street, Philadelphia, 215-625-2900. The cross street for the hotel is 12th Street.



A cocktail reception with vendor displays will begin at 5:00 p.m., followed by dinner at 6:30 p.m. and the evening's presentation, "HVAC Duct Construction Standards". Mr. Robert J. Wasilewski, Project Manager, Technical Resources from SMCA's National Headquarters, will be our speaker for the evening.

There will be no cost for ASHRAE's consulting engineers to attend, as guests of SMCA. All other ASHRAE Philadelphia Chapter members are invited to attend at a generously discounted cost of \$30 (advance registration and pre-payment are required).

Valet parking is around the back of the hotel on Filbert Street and there is first-come, first-serve on-site parking at the hotel.

We look forward to seeing everyone there.

**Directions to the Philadelphia Marriott Hotel
1201 Market Street, Philadelphia, PA 19107
215-625-2900**

From the North: Using I-95 South-Trenton, Princeton

From the South: Using I-95 North- Phila. Airport, Baltimore, Washington DC

Take I-95 to Exit 22 (I-676 West/Central Philadelphia). Follow I-676 West for one mile to the Broad Street exit. At the end of the ramp make the first left onto Vine Street/Local Traffic. Proceed on Vine Street 3 traffic lights to 12th Street. Make a right on onto 12th Street, proceed 3 blocks to Filbert Street. The hotel will be on the right corner of 12th & Filbert, one block past the PA Convention Center.

From the Northeast: Using the PA Turnpike, Northeast Extension, Route 9

Follow the Northeast Extension South until it ends. Take I-476 South to Exit 6: (I-76 East/Philadelphia). Proceed on I-76 East to Exit 38: (I-676 East/Central Philadelphia). Proceed on I-676 East for one mile to the Broad Street exit. Exit to the left, follow the traffic signs to Vine Street/Local Traffic. Proceed on Vine Street 3 traffic lights to 12th Street. Make a right on 12th Street and proceed 3 blocks to Filbert Street. The hotel will be on the right corner of 12th & Filbert, one block past the PA Convention Center.

From the East: Using the New Jersey Turnpike-Northern New Jersey, New York

Take the New Jersey Turnpike to exit 4: Camden/Philadelphia. Stay to the right through the tollbooths, take Route 73 North to Route 38 West. Proceed on Route 38 West to Route 30 West. Continue on 30 West to the Benjamin Franklin Bridge. Proceed across the bridge staying in the center lane to I-676 West/Central Philadelphia. Proceed on I-676 West for one mile to the Broad Street exit. At the end of the exit ramp make the first left onto Vine Street/Local Traffic. Proceed on Vine Street 3 traffic lights to 12th Street. Make a right onto 12th Street and proceed 3 blocks to Filbert Street. The hotel will be on the right corner of 12th & Filbert, one block past the PA Convention Center.

From the West: Using the Pennsylvania Turnpike-Penn State College, Pittsburgh

Take the Pennsylvania Turnpike East to exit 24: (Valley Forge/I-76 East). Proceed on I-76 East for 17 miles to exit 38: I-676 East/Central Philadelphia. Proceed on I-676 East for one mile to the Broad Street exit. Staying to the left follow the traffic signs to Vine Street/Local Traffic. Proceed on Vine Street 3 traffic lights to 12th Street. Make a right on 12th Street and proceed 3 blocks to Filbert Street, The hotel will be on the right hand corner of 12th & Filbert. One block past the PA Convention Center.

From Southern New Jersey: Using the Walt Whitman Bridge- Shore Points

Take the Atlantic City Expressway east to the end, merging with Route 42 North. Continue on 42 North, following the traffic signs for the Walt Whitman Bridge. Upon crossing the bridge, proceed on I-95 North to exit 22: (I-676 West/ Central Philadelphia). Proceed on I-676 West for one mile to the Broad Street exit. At the end of the exit ramp, make the first left onto Vine Street/Local Traffic. Continue on Vine Street 3 traffic lights to 12th St. Make a right on 12th St. and proceed 3 blocks to Filbert St. and the hotel will be on the right corner of 12th & Filbert St. One block past the PA Convention Center

ASHRAE Technical Committees - Apply for Membership by November 1

Think you know a lot about HVAC&R technology? Join an ASHRAE Technical Committee and put your expertise to work for the benefit of the society.

The technical expertise of ASHRAE is concentrated in its Technical Committees (TC's), Task Groups (TG's), and Technical Resource Groups (TRG's). These groups are responsible for:

- *preparing the text of the ASHRAE Handbooks*
- *originating, coordinating, and supervising Society-sponsored research projects*
- *presenting programs at ASHRAE meetings*
- *reviewing technical papers*
- *evaluating the need for standards*
- *and advising the Society on all aspects of the technology it embraces*

Take a look at the following ASHRAE web page to get more information on Technical Committees, including the application process:

<http://www.ashrae.org/template/TechnologyLinkLanding/category/1646>

The application process is quite simple; you just need to create or update your biographical record form and then indicate in which committee you have an interest. Even if you don't want to be a member, many technical committees have web sites where you can stay current with their activities. These are all available from the link listed above.

November 1st is the deadline for applying for Technical Committee membership for next year, so be sure to go online and see where you can get involved. If you have questions not answered by the web site, contact the Philadelphia Chapter's Technology Transfer Chair, John Pardekooper. John can be reached by phone at 215-654-8040 or email john.pardekooper@siemens.com.

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

Technology Awards Program – Have Your Work Recognized!

ASHRAE has an annual technology awards program that recognizes advances in the application of HVAC+R technology. Philadelphia has not had many entries in recent years, and I would like your support in changing that. These awards are a great way to gain recognition for your innovative designs.

Submission at the Chapter and Region level requires completion of a short application along with brief supporting documentation. One entry in each category will be selected as a chapter winner. Those entries will then be sent on for judging in the regional competition.

Applications and background information on the program can be found on the ASHRAE website (<http://www.ashrae.org/template/AssetDetail/assetid/25424>). The information is under the "Technology Awards Program" heading near the bottom of that web page.

All entries should be mailed to John Pardekooper no later than March 1, 2006 at Siemens Building Technologies, 1450 Union Meeting Road, Blue Bell PA 19422. Please contact John at john.pardekooper@siemens.com or by phone at 215-654-8040 if you have questions about this program.

Greater Philadelphia Building Professionals Association

The www.gpbpa.org has been accepted by the major technical associations in the Philadelphia area. The web site calendar has advance information for future events and seminars so that you and all the interested parties may plan and attend these events and seminars. The present important action is up to you. Please email and post this notice in your break area that there is a free web site for technical professionals to find out what related associations are presenting (i.e. AEE, AIA, ASCET, ASHRAE, ASPE, ASPE Estimators, CMAA, DVGBC, ECOP, GBCA, IESNA-Phil, SFPE, SJMCA, and SMCA). We are very surprised that BOMA has resisted joining the GPBPA, and if you are able to talk with any BOMA Board members, we would appreciate your asking them why they have not joined the GPBPA association.

Please email your work associates and friends to review www.gpbpa.org and continue to make our combined efforts a force to be heard in the building community!

Sustainability Topic of ASHRAE Satellite Broadcast

A satellite broadcast is being offered by ASHRAE to fulfill its goal of promoting building sustainability as a means to provide a safe, healthy, comfortable environment while simultaneously limiting the impact on the Earth's natural resources.

Information about building sustainability principles, practices and emerging concepts will be presented in the free April 19, 2006, satellite broadcast and Webcast, Sustainability and the Building Environment. The program is sponsored by ASHRAE's Chapter Technology Transfer Committee (CTTC).

"This broadcast will benefit all of the team members involved in the design, construction, start-up, and operation phases of a facility," said Jon Christopher Larry, chair of CTTC. "Viewers will be given information and sources to assist them when they are faced with the situation where a green design must be done. The green building industry will also benefit from the engineering input from ASHRAE."

The speakers for the broadcast will provide guidance on how to practice green building design. They are: Joe Van Belleghem, president, BuildGreen Developments, Victoria, Canada; Hal Levin, Fellow ASHRAE, research architect, Building Ecology Research Group, Santa Cruz, Calif.; Jean Lupinacci, director, ENERGY STAR commercial and industrial branch, ClimateProtection Partnerships Division, U.S.Environmental Protection Agency; Kevin Hydes, P.E., P.Eng., president and CEO, Keen Engineering, Montreal, Canada; and Malcolm Lewis, Ph.D., P.E., president, CTG Energetics, Irvine, Calif.

The broadcast will be similar to the April 2005 Mold in the Building Environment Broadcast/Webcast viewed by some 16,000 viewers at 1,700 locations.

Visit www.ashrae.org/greenbuildingsbroadcast for the latest information regarding the broadcast/Webcast and ASHRAE's work on sustainability.

ASHRAE IAQ 2007 Examines Healthy, Sustainable Buildings

Healthy, sustainable buildings are those that create high quality indoor environments while minimizing their impacts on the outdoor environment. But achieving both can be a challenging goal.

Guidance on how to do so will be presented at the American Society of Heating, Refrigerating and Air-Conditioning Engineers' (ASHRAE) conference, IAQ 2007 Healthy and Sustainable Buildings, which will be held Oct. 15-17, 2007, at Baltimore's Inner Harbor, Baltimore, Maryland.

"The issues of healthy and sustainable buildings are cyclical and interdependent," Lawrence J. Schoen, P.E., chair of the conference said. "Buildings not only impact the indoor environment but they have an impact on the outside environment. Our goal in creating healthy buildings should be to create indoor environments where people are healthy and productive but that minimize impact on the environment."

The conference will emphasize the measured performance of healthy and sustainable buildings and practical methods for their design, construction, operation and maintenance, according to Schoen.

For more information, contact ASHRAE Technical Services at IAQ2007@ashrae.org or www.iaq2007.org.

Student Activities – Upcoming Events

Over the next couple months, the Student Activities Committee will be attending local colleges to promote ASHRAE. Some of the colleges include Drexel, Temple, Widener, and Delaware Valley Community College. We are also looking to set up visits to local grade schools and or high schools. If you have any interest in presenting or getting involved, please contact me at mwitkowski@mchugheng.com.

We are also getting ready for another year supporting the Future City Competition. ASHRAE has been supporting the competition over the past several years. (Please refer to the article to the left.) On a personal note, I was a judge last year and was thoroughly impressed with the creativity of the students. Each school had a unique way to tackle the problems. I encourage you to support this competition.

Mike Witkowski, Student Activities Committee Chair

Future City Gears Up for 2005-2006

The Philadelphia Regional Future City Competition, an education outreach program of the Delaware Valley Engineers Week Council, is actively seeking volunteers for this year's program. Although the Regional Competition will not be held until January, the Future City Steering Committee has been registering schools since May.

In August, even before the school year began, there were 12 schools registered and since the beginning of the school year, more schools have been starting the program. The program offers 7th and 8th grade students the opportunity to work with their teacher and a practicing engineer mentor to:

- Design a city of the Future using SimCity 3000
- Write a researched engineering essay of 500 – 700 words and a 100 – 300 word abstract describing their city development
- Build a 30" x 60" model of a portion of their city
- Prepare a 7 minute presentation

The schools will come together at the regional competition at Villanova University on January 28, 2006 to present their cities to teams of judges. The winning team will represent the Philadelphia region at the national competition in February. In addition, there are over 40 other prizes awarded at the regional competition.

In order to run the program, Future City needs almost 200 volunteers to be:

- Mentors – needed ***NOW!***
- City Design Judges – needed in December
- Essay Judges – needed in late December – early January.
- Preliminary Judges, Special Award Evaluators and competition workers – needed in late January

Why not volunteer for this exciting program? It will give you an opportunity to share your engineering expertise with middle school students and you will have a lot of fun. Sign up on-line at www.futurecityphilly.org, or call or e-mail Jennifer Wetzel, the Volunteer Coordinator, at 215-573-3935 or volunteer@futurecityphilly.org.

Comment on Proposed ASHRAE Standard Proper Ventilation Integral Part of Patient Care

Just as the right dose of medication can improve their health, proper ventilation is an integral part of patients' well-being in health care facilities.

Requirements to ensure high quality ventilation can be found in ASHRAE's proposed standard 170P, Ventilation of Health Care Facilities. The proposed standard is open for public comment from Sept. 23-Nov. 7, 2005. The standard is being developed by ASHRAE and the American Society for Health Care Engineering.

"Without high quality ventilation, patients, health care workers and visitors can become infected through normal respiration of particles in the air," Richard Hermans, P.E., chair of the committee writing the standard, said. "Poorly ventilated health care facilities are places where the likelihood of pathogenic particles occurring in the air is quite high. Because such pathogens can be found everywhere in health care facilities and because patients are susceptible to them, additional care should be taken in the design of ventilation systems."

The proposed standard will define requirements for ventilation system design intended to provide environmental control for comfort, as well as infection and odor control.

It addresses systems and equipment, space ventilation for a variety of areas in health care facilities, including airborne infection isolation rooms, critical care units, burn units, surgery rooms, and Class B and C operating rooms, and planning, construction and system startup.

Drafts of ASHRAE's proposed standards and guidelines are available only during their related public review periods. To obtain electronic draft versions of the Standard 170P during the comment periods, visit ASHRAE.org at www.ashrae.org/standards.

**PHILADELPHIA CHAPTER ASHRAE
2005 - 2006 PROGRAMS**

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

Date	Location	Pre-Dinner Topic	Dinner Topic	Theme
Wednesday Oct 26	Philadelphia Marriott	Consultants Invited Guests of SMCA	Revisions to SMCNA Publications Duct Design & Construction	SMCA Engineer's Night
Thursday Nov 10	Colleen's	Non-Chemical Water Treatment	Presentation by Facility Owner	Refrigeration
Thursday Dec 8	Union League	BREAKFAST	AIA Presentation "Art vs. Science"	Technology
Thurs Jan 12	Colleen's	IAQ and Productivity	Presentation by Facility Owner "Integrated Design"	LEED (Joint Meeting with DVGBC)
Thursday Feb 9	Colleen's	Career Demographics for the Engineering Industry	Ductless Air Distribution	Student Night (Joint Meeting with SMCA)
Thursday Mar 9	Cescaphe	Table Top Vendor Show	Panel Discussion	GPBPA
Thursday April 6	Colleen's	Standard 62 Compliance IAQ Method	ASHRAE Standards	Past President's Night
Thursday May 11	Colleen's	Humidity Control	IBC Seismic Requirements	ASHRAE Scholarship Night
(date TBD) May 2006	Princeton University Campus	Centralized Thermal Energy Storage	Tour of New TES Plant	Field Trip
(date TBD) June 2006	Temple University Campus	Program Planning Meeting for 2006-2007		

Please help the ASHRAE Research 2005-2006 Fund Drive by filling out this Donor Form 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 Steve Ridenour, Research Program Chairman, at steven.ridenour@temple.edu.

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 than \$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: ASHRAE RESEARCH, 1791 Tullie Circle, NE, Atlanta, GA 30329

!! 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.

Corporate Sponsors

We are currently accepting donations for corporate sponsors for 2005-2006. Please contact Hope at hope@multiservicemgmt.com if you are interested.

Your firm's participation in this program would enable us to make a wonderful donation to Research Promotion which includes over \$ 1.5 million in local research funding.

The following are the benefits your company will enjoy as a Corporate Sponsor:

- All corporate sponsors are listed our web site – www.ashrae-phila.org. You may also submit a written description of your firm, as well as establish a link to your own web site.
- Each sponsor may submit a 250 word bio of their company for publication in our monthly newsletter, *The Quaker City Climate*.
- Participation in high quality programs to better equip your employees for today's demands.
- Ease of payment through one lump sum payment.
- Free copies of the Philadelphia Chapter's Directory, "Manufacturers' Representatives in the Philadelphia Area" – a \$20/Directory value.

Recognition as a Corporate Sponsor at all events by way of our corporate sponsor plaque that is exhibited at our meetings.

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, Bob Carpenter, at bob@cowardenvironmental.com to identify your interests to participate.

September Meeting Photos



Steve Piccolo congratulates Dr. Agami Reddy for his presentation.



(from left to right) Dr. Itzhak Maor, Dr. Agami Reddy of Drexel University, and Travis Peyton, PE, are congratulated on their work presented by Dr. Reddy at the meeting.

Career Opportunities

Utility Program Associate: RealWinWin helps its Fortune 500 clients locate and secure financial incentives from electric and gas utilities to help pay for energy-efficient components used in new construction, renovation, and maintenance projects. These incentives apply to lighting, HVAC, and other building systems. This position involves compiling and submitting the technical information and documentation required by these incentive programs in a timely manner. Our Utility Program Associate works on an ongoing basis with utility customer service reps to understand program guidelines and requirements, and makes requests of engineering, construction, and vendor staffs as required. Excellent aptitude for analysis and evaluation, strong written and verbal communication skills, and a positive "can do" attitude are essential. Technical support and training will be provided by RealWinWin's engineering team.

Contact Neville Clarke (x 242) or Mark Jewell (x227), RealWinWin, Inc., 1926 Arch Street, Suite 4F, Philadelphia, PA 19103, (215) 732-4480.

Starting Date: October 10, 2005

Hours per Week: Full and Part-Time

Job Requirement: Two year technical degree in Building Systems or Equivalent (Full Time)

Technical Academic Coop Program (Part Time)

Excellent verbal and written communication skills

Experience with Microsoft Office software products

Salary: This is an entry level position. Salary commensurate with education level and experience.

Benefits: Medical, Vacation

HVAC/Mechanical Engineer/Project Manager: RAM-TECH Engineers is seeking a full time mid to senior level HVAC/Mechanical engineer, with 10 to 15 years experience, for its Philadelphia Office. Candidates will have a high level of responsibility and will be expected to manage all aspects of a project from conception through completion. Candidates must have excellent verbal and written communication skills, leadership skills, knowledge of mechanical codes, and software skills (HVAC Programs, Excel, etc. Word and AutoCAD a plus). Pennsylvania PE license required, PE for the tri-state region, fire protection experience and marketing experience a plus. Ownership opportunity. RAM-TECH Engineers offers a full range of employee benefits and compensation will be based on experience. For immediate and confidential consideration, send your resume to RAM-TECH Engineers, 2 International Plaza, Suite 243, Philadelphia, PA 19113 (Candidates only). No phone calls or unscheduled appointments will be entertained.

MEP/FP Cad Draftsperson: RAM-TECH Engineers is seeking a full time experienced AutoCAD® draftsperson who is familiar with mechanical/electrical/plumbing/fire protection system drafting using external references and paper space overlays of referenced backgrounds using AutoCAD 2005. RAM-TECH Engineers offers a full range of employee benefits and compensation will be based on experience. For immediate and confidential consideration, send your resume to RAM-TECH Engineers, 2 International Plaza, Suite 243, Philadelphia, PA 19113 (Candidates only). No phone calls or unscheduled appointments will be entertained.

3rd Annual DVGBC General Membership Meeting

Thursday, October 20, 2005

Philadelphia Naval Business Center
One Crescent Drive

The City's first LEED-Core and Shell Pilot Project,
Developed by Liberty Property Trust

Our Featured Guest Presenter

Kevin Hydes

Chair of the US Green Building Council,
and President of Keen Engineering

Mark your calendars to spend a great evening with over 300 members of our industry who are shaping the future of green building in the Delaware Valley

To register visit: www.dvgbc.org

Sponsorships available!

Contact Mark Purcell, Heery International

Phone: 610.651.2910

Email: mpurcell@heery.com



design on the delaware

nov 4-5 2005

**wyndham hotel at franklin plaza
philadelphia, pa**

conference overview

AIA Philadelphia, the largest Chapter of the American Institute of Architects in Pennsylvania and the Delaware Valley region, is pleased to present the third annual Design on the Delaware regional conference. AIA Philadelphia has partnered with related professional organizations and AIA chapters for the programming and planning of this two day event. This collaboration will produce an interdisciplinary convention that provides participants with new perspectives on the issues and opportunities of our built environment in the Delaware Valley region and beyond.

conference program

Design on the Delaware will offer a keynote address and two plenary sessions by nationally recognized speakers, four program tracks offering AIA Continuing Education System registered seminars, a trade show with 92 exhibitors providing information on new products, services, and technologies of interest to architects, landscape architects, planners, engineers, contractors, and developers.

conference participants

Design on the Delaware will draw participants from each of the 22 participating professional associations and organizations. These organizations represent a membership of more than 8,700 architects, industrial designers, landscape architects, interior designers, engineers, planners, contractors, marketing professionals and business leaders from Eastern Pennsylvania, New Jersey and Delaware. More than

250 persons are anticipated at the educational programs and an additional 500 professionals are expected to visit the trade show.

conference information/contacts

Pat Gourley Schwartz
Director of Programs & Special Events
AIA Philadelphia
117 South 17th Street
Philadelphia, PA 19103
Phone: 215-569-3186 x 105
Fax: 215-569-9226
Pat@aiaphila.org
www.designonthedelaware.com

exhibit opportunities

Every member of the 22 collaborating organizations will be provided free admission to the exhibit hall. Exhibit admission tickets will be distributed to the 8,700+ members of the participating organizations and will be accessible via the conference web site www.designonthedelaware.com.

set up: Friday, November 4, 7 am to 11 am

show hours: Friday, November 4, 11:30 am to 8 pm and Saturday, November 5, 8 am to 3:30 pm.

Exclusive show hours will be Friday, 3:45 to 8 pm and Saturday, noon to 2 pm

tear down: Saturday, November 5, 3:30 pm

rates

AIA Philadelphia members

- \$750 aisle booth \$900 corner/end booth

non-members

- \$1000 aisle booth \$1250 corner/end booth

92 booths, 8' deep and 10' wide

each booth includes: 8' high back walls, 3' high side walls, one 6' draped table, 2 chairs, standard head sign

**PHILADELPHIA CHAPTER ASPE PLUMBING AND
FIRE PROTECTION PRODUCT EXPOSITION AND TECHNICAL SEMINARS**

THURSDAY, OCTOBER 27, 2005

The Philadelphia Chapter of the American Society of Plumbing Engineers is excited to announce our 13th Bi-Ennial Plumbing & Fire Protection Product Exposition and Technical Seminars. There will be over 70 table-top display booths representing over 150 different plumbing and fire protection products. This is an excellent opportunity to see the latest products and technology, to ask the manufacturers' representatives questions regarding the products we specify, update catalog information and renew acquaintances. The Chapter will also be offering three (3) 1-hour seminars in which attendees will be credited with CEUs. This is important for those with CIPE and/or CPD designations or any other professional registration requiring continuing education units. The seminars are outlined to the right and we ask that you **register in advance** for them.

The Product Exposition will be held at the Ramada Inn located on the Industrial Highway (Route 291) in Essington, Pennsylvania. This is just south of the Philadelphia International Airport off Routes 95 and 420. There is plenty of free parking available! The exposition floor will be open from 1:00 pm until 7:00 pm and hot food will be served on the product show floor from 4:00 pm to 6:00 pm.

Feel free to invite fellow colleagues and/or clients whom you think would benefit from this excellent opportunity.

For tickets, please contact Ken Clark at 302/368-8007 or R.Paul Silvestre at 215/639-3600.

For additional information regarding the seminars, please contact Steve Ziga at 610/995-2988.

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

TECHNICAL SEMINARS

- Session 1: 1:00 pm – 2:00 pm
Topic: **Compressed Air Systems**
Speaker: **Tom Bennett**
Atlas Copco Compressors Inc.
- Session 2: 2:00 pm – 3:00 pm
Topic: **LEED'S & Plumbing**
Speaker: **Delaware Valley**
Green Building Council
- Session 3: 3:00 pm – 4:00 pm
Topic: **Senior Care Facility Design**
Considerations
Speakers: **Glen Werner, AIA &**
Steve Ziga CPD, CET
JK Roller Architects
Aspe Phila V.P. Tech

Please email the classes that you are attending to Joseph M. Smaul, PE at joseph.smaul@comast.net. Include your name, company, phone, and fax.

We Need Your Email Address!

The Quaker City Climate, the monthly newsletter of the Philadelphia Chapter of ASHRAE which is published September through May, is distributed by email in an electronic format (PDF file). Unless a Chapter member contacts our office and specifically asks that they continue to receive a hard copy by mail, the newsletter is only distributed by email.

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

We will keep your email address confidential!

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.

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Any member with material to submit for inclusion
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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.