

JANUARY DINNER MEETING

Date: Tuesday, January 20, 2009

Location: **Annie Moore's**
50 East 43rd Street
(Between Madison & Vanderbilt)
212.986.7826

AGENDA

5:30 – 6:30 PM: Social Hour
6:30 – 7:30 PM: Dinner (*If anyone has special dinner requirements, please email Joseph Azzopardi one week prior to the meeting at lazzow@yahoo.com*)

7:30 – 8:30 PM: Technical Presentation
Speaker: John Tauger
D&B Engineering

Topic: **Natural Gas Driven Chillers**

Theme: **Refrigeration Night**

Cost: Student Members - \$20
YEA Members - \$30
NY Chapter Members - \$35
Non-Members - \$40

CASH OR CHECKS ONLY

ASHRAENY will assess a \$10 service charge for ANY IOU's for attendees not paying the full attendance fee at the door.

**Smoking is Prohibited at All ASHRAE Dinner Meetings.
PE's are eligible for 1 PDH Credit Pending**

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PRESIDENT'S MESSAGE

by Om Taneja, P.E.

Best Wishes to all for a successful New Year.

This is the time, we all make, New Year Resolutions, formally or informally. As a member of ASHRAE with focus on improving human comfort, indoor air quality,



lowering energy and water use and carbon footprint, there are some pressing resolutions that we need to make and keep.

We must take concrete initiatives towards environmental responsibility in our personal, social and business life. That does mean that we carefully review how we use and discard our valuable resources and how we design, build, operate and maintain facilities that reduce the carbon footprint at home and at work by first taking easy and effective steps and progressing towards technology driven high-performance homes, schools, buildings and other facilities and services. A small step from each of us can go a long way towards saving the humanity from postulated dangers of climate changes.

In that Regards, we all need to take cue from some important areas ASHRAE is focusing and communicating at its Winter Meeting in Chicago. As a matter of pride US Department of Energy issued a ruling on December 30, 2008, establishing ASHRAE Standard 90.1-2004 as National Reference Standard by DOE. States must now certify that their building codes meet the requirements in ASHRAE/IESNA's 2004. ANSI/ASHRAE/IESNA Standard 90.1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings, has been established by the DOE as the commercial building reference standard for state building energy codes under the federal Energy Policy Act. The Act requires all states to certify that they have state energy codes in place that are at least as stringent as 90.1-2004, or justify why they cannot comply. The DOE determined that Standard 90.1-2004 saves more energy than Standard 90.1-1999, which was the previously referenced standard in the Act. "The quantitative analysis of the energy consumption of buildings built to Standard 90.1-2004, as compared with buildings built to Standard 90.1-1999, indicates national source energy savings of approximately 13.9 percent of commercial building energy consumption. Site energy savings are estimated to be approximately 11.9 percent," according to the ruling published in The Federal Register on Dec. 30, 2008. Due to significance of this ruling, ASHRAE NY will be offering an all-day seminar in March 2009, on ASHRAE 90.1 with a guest lecture on recent updates on ASHRAE 62.1, Ventilation Standards. Measures are recommended to promote Demand Control Ventilation and related Indoor Air Quality and energy recovery processes to recover energy from conditioned ventilation air. Reference Benchmark Standards have become more solidified as ASHRAE 90.1, ASHRAE 189 (High Performance Buildings), ASHRAE 62.1, coupled with ENERGY GUIDES that provide a detailed framework of Energy Labeling and certifications of buildings. Energy Labeling is already common practice in Europe, but is set to make inroads into the US

marketplace. We also need to focus on buildings façade, and modeling of Buildings and Air flows to guide us to intelligent Buildings Management Systems.

January 2009 brings a new US Administration with the intentions of a large stimulus package for upgrading the infrastructure and energy and water efficiency projects. I will give a new life to many grass root infrastructure, energy Management and High Performance Buildings. It is anticipated that many new jobs will be created by promoting renewable energy sources and by modernizing our infrastructure and systems for greater efficiency and reliability. This would also require concomitant responsibility of developing better measurements and verification tools and employ ASHRAE's principles of commissioning and retro-commissioning to maintain the high performance standards.

As an industry, we have extraordinary challenges ahead of us and we need to use ASHRAE NY's educational courses and seminars to stay abreast of emerging technologies and standards and do our collective shares to bring a positive change to our quest for a more harmonious and friendly living.

Do not forget to keep your resolution of becoming Greener at home or at work.

We wish you all a Joyous and Healthy New Year.

NOVEMBER DINNER MEETING PHOTOS



Steven Strong, President of Solar Design Associates presenting at the November Dinner Meeting



Spenser Morasch, Assistant Regional Chair & Treasurer (ARC) visiting ASHRAE NY Chapter

ASHRAE - NY Sustainability Committee



by Steven Baumgartner, P.E.

ASHRAE NY Sustainability Committee is energized for the new year with new developments. Now fully established as a working committee with designated task groups, there are ideas like discussion on developing an energy center, leading new technology discussions, partnering with public and non-profits and developing a platform for integrated design in practice. Like minded young professionals with the common goal of developing high performance building have collected to learn and educate. The committee looks to grow and collaborate with many groups in the New York area to promote our mission to *“To advance the arts and sciences of the design, construction and operation of the built environment to promote a more aware, responsible and environmentally progressive New York City, region and world.”*

ASHRAE NY Sustainability Committee started the year with two programs within the first week, including a technical roundtable on Microturbines, where President Steve Baumgartner moderated the panel discussion, and a High Performance Building Salon with the USGBC. The group is committed to spread the word of sustainability by starting at home. ASHRAE New York chapter programs are taking new direction to initiate and integrate sustainability in all discussions. The next two chapter monthly dinner meetings start this trend, with the February 24th meeting on Microturbines with Bruce Beckwith and discussion on Standard 189 with Dr. Tom Lawrence on March 24.

Not just at the local level, the ASHRAE NY Sustainability committee members are travelling to the windy city Chicago for the ASHRAE Winter Conference from January 24-28. They have scheduled to meet members from ASHRAE sustainability committee of other cities from around the nation to share ideas and spread the word. We hope to see you all there.

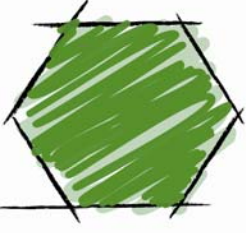
We have one person in NY that is certified as a High-Performance Building Design Professional (HBDP). We aim to have 50 by the end of the year. The much coveted certification was rolled out last summer by ASHRAE to distinguish professionals who can lead projects into sustainable engineering solutions. More at <http://www.ashrae.org/certification/page/1683>. As part of its educational initiatives, the committee will be organizing discussion groups on the certification exam to encourage more members to pursue the certification. Look out for a crash course training seminar on the same.

Some of the members are involved in policy affairs of funding Standard 189 and connecting with the mayor's office. The committee invites ideas and initiatives everybody to get more involved in its' activities, coordinate events or outside with non-profit organizations like 'Engineers without Borders' and 'Envirolutions'.

We continue to co-sponsor and maintain presence at more events every week. Some of the upcoming events you can look out for us are:

1. USGBC- Sustainable Cities Dialogue: The University as Green Crucible Jan 27
2. CUNY- NYAS March
3. SPN- PlaNYC Update April 21

We need your ideas, your involvement, and your enthusiasm. Email Steve Baumgartner at steven.baumgartner@burohappold.com to attend the next meeting and participate with like minded creative group. Look us up at <http://ashraeny.org/committees.php>



**not your
grandfather's
ASHRAE**

**did you know,
ASHRAE-NY has a new
sustainability initiative?**

find out more at ashraeny.org

“R” IN “HVAC&R” OF ASHRAE’S CORE PROGRAMS

by Alexander Weiss, P.E.
NY Chapter ASHRAE CTTC Chair

Technical program content presented at Chapter, Regional and Society meetings presentations cover a wide range of HVAC&R topics. While we hear a lot about Heating, Ventilation and Air Conditioning, discussion about the “R” portion has been rather obscure.

We all know that “R” stands for refrigeration. Refrigeration is the foundation of the whole HVAC industry. Acknowledgement of global warming and greenhouse gases started with potential releases of chlorofluorocarbons from refrigeration equipment. Refrigeration Industry took the lead and within the guidelines of “Montreal Protocol” controlled release of ozone depleting gases such as R-11, R-12 and through research and innovation, strengthened the industry by developing refrigeration agents with low or zero ozone depleting effect.

As we focus on environmental responsibilities and sustainability, refrigeration continues to be a critical element of “HVAC&R” programs in general, and various initiatives being taken by the ASHRAE NY Chapter Refrigeration Committee.

In this regard, this year we were invited to participate in 2008 ABCO EXPO. ABCO Refrigeration Supply Corp., the leading wholesale distributor of heating, ventilation, air conditioning and refrigeration (“HVAC/R”) products in the Northeast, hosted its 28th annual ABCO EXPO on Wednesday, November 5, 2008 at Terrace on the Park, 52-11 111th Street, Flushing Meadow Park, Queens, New York, from 12:30pm to 8:00pm. ABCO EXPO is the largest independent HVAC/R trade show in the country and has grown to become one of the industry’s most trusted sources of up-to-date industry information and product education. The show attracts more than 4,000 attendees.

Over 200 manufacturers of HVAC/R equipment and supplies including Mitsubishi Electric, Johnson Controls/Luxaire, Emerson/Copeland, Nordyne/Maytag, DuPont, Scotsman, Heatcraft, Reznor and Tecumseh showcased their new products at this premier industry event.

This year’s ABCO EXPO focused on the latest regulatory and compliance requirements facing the HVAC/R industry and the resulting migration toward more environmentally conscious, energy-efficient products. ABCO EXPO is an excellent opportunity for engineers, designers, and contractors to increase their knowledge of the most current products available and to better understand the potential for business growth represented by the market’s “green” trends.

ABCO EXPO also featured numerous technical and business training seminars specifically developed to provide the most up-to-date information on significant issues facing contractors today. Some of the seminar topics are:

- The Business Case for Switching out R22
- 2009 Energy Requirements/Solutions
- New Modulating 33” Furnace with PSC and ECM Motors
- Screw Compressors – Easy to Select, Easy to Install, Easy to Service, Easy to Sell
- R410 – Flushing Line Sets for R-22 to R410 Conversions

The attendance at this event was overwhelming. Since the refrigeration industry is an integral part of food industry it appears that the economy has a bright future for this industry. A lot of young people attended the EXPO. ASHRAE NY was proud to present some promotional literature, membership applications, in addition to giving a short talk about ASHRAE E to attendees stopping by at NY Chapter ASHRAE table. All Webb, NY Chapter Member, did a good job presenting benefits of joining ASHRAE and the NY Chapter.

CCNY STUDENT BRANCH ASHRAE OCTOBER MEETING

by Kazimierz Bigus

President of ASHRAE Chapter at CCNY

On Thursday October 23, 2008 at 12:30pm we had the pleasure of hosting guest speaker Robert Daly, P.E. (New York City Department of Building, Technical Director - Boiler Division). The meeting was held at City College of New York in the Steinman Engineering Building, 2M5 (Lounge Room). The following topics were discussed:

- ASHRAE and the benefits of joining (knowledge, grants, competitions, scholarships etc.)
- Opportunities and specific career paths students can follow when entering the HVAC industry.
- The need for Mechanical Engineers in the New York area specifically in the HVAC industry.
- Overview of the main goals and objectives for engineers designing HVAC systems.

About 30 students attended the meeting. Robert was very informative and used a well structured Power Point presentation. Initially Mr. Daly explained the various benefits of joining ASHRAE organization, and the extensive knowledge that can be obtained by attending seminars and reading society publications. Students were interested in the fact that they can also obtain grants and scholarships in addition to building a strong networking support.

Martin Nolan, a CCNY student attending the meeting has received two national scholarships and explained that it is quite feasible to get one and encouraged the group to submit applications and not to be intimidated.

ASHRAE offers a wide range of benefits including career assistance by helping students to finding

internships and jobs upon graduation. One of the remarkable experiences that students can gain by joining ASHRAE is active participation in design competitions where students are faced with real life HVAC design projects. Mr. Daly also mentioned the monthly dinner meetings, seminars and conventions that also provide an excellent opportunity for building networks and for interactions with industry leaders. Robert said “what if in the future you get a project focusing on gas turbines – it is hard to quickly gain strong and in-depth understanding of this specific field, however if you remember a suitable contact from ASHRAE – one phone call can make all the difference”. It is the strong support of the society that makes the membership so valuable.

Robert explained to our mechanical engineering students the numerous career paths that the industry has to offer. At one point he asked a question: “Anyone here interested in the career of sales?” – “I never get any hands to this question” he continued. Robert explained the importance of an engineering background for mechanical equipment sales. Sales are often associated with door to door sales of vacuum cleaners and encyclopedias. – “...that is not the sales that we are talking about”. Lots of engineers go into technical sales to advise on the correct equipment for challenging engineering problems.

Robert then went on to discuss the huge opportunities arising in the area of alternative sources of energy generation as a part of “energy independence” movement. As an example he used wind power and the job opportunities that will be created in regions where big winds form throughout the whole year: Texas, California, mountain areas, the shores of the Great Lakes and the East Coast.

Joining ASHRAE student chapter helps students in developing leadership skills. By organizing events and participating in design competitions students shape strong people skills and team player attitude, which are priceless attributes for today’s employers.

Overall the meeting turned out to be a great success. All of attending students signed up for our ASHRAE CCNY discussion forum and at least 10 of them are already actively contributing to our activities. At the end of the meeting lunch was served and Robert Daly answered any questions students had. As a president of our chapter I asked for hints on short and long term goals for our chapter – Robert advised to work towards the 2009 design competition and encouraged us to raise funds for group trip to the National ASHRAE convention in Orlando Florida in January 2010.

CCNY STUDENT BRANCH ASHRAE NOVEMBER MEETING

*by Shikder Hafiz
Secretary of ASHRAE - CCNY*

This past Thursday November 21st, we had a guest speaker Mr. Matthew Flannery from Buro Happold Consulting give us a presentation about Chilled Water Systems and their application and implementation in various types of environments. Mr. Flannery, LEED AP, is a graduate of Penn State, his company provides engineering consultancy, design, planning, project management and consulting services for all aspects of buildings, infrastructure and the environment. Among the topics discussed were: The Refrigeration Cycle, Refrigeration Cycle Components, Chillers, Cooling Towers, Coils and Chilled Water System Design. Mr. Flannery also gave us a comparison on previous water systems and how they were very bulky and unwieldy compared to the newer systems available to us today. Specifically speaking, Mr. Flannery broke down the individual processes that are inherent to the Refrigeration Cycle such as compression, condensation, expansion, and evaporation.

Also discussed was Water Cooled Chillers. These Chillers have all the parts necessary for the aforementioned processes. Each part was discussed in great detail, specifically the shell and tube heat exchanger model. These gargantuan apparatuses can provide 200-4000 tons of cooling and weigh in the range of 10,000 to 65,000 lbs.

Following his discussion on heat exchangers, Mr. Flannery proceeded to discuss Chilled Water Systems and how they operate. He then went on to say describe the types of systems; namely Reverse Return Piping, Direct Return Piping, Primary-Secondary Piping and Variable Primary Piping. Mr. Flannery described each system in detail and which versions were used in antiquity and their modern counterparts.



Speaker: Mathew Flannery LEED A.P

After finishing his presentation, the floor was open to a question and answer session. Mr. Flannery answered a questions about the LEED program and also questions about Chilled Water System efficiency, operating costs, and the amount of noise produced. Alexander Weiss, P.E., ASHRAE NY CTTC Chair, that was also present at the meeting, contributed with his explanations to student questions.

Overall, the event was a great success. We had a turnout of around thirty HVAC interested students, with ten students already actively participating in CCNY ASHRAE activities. After the discussion was over, we served lunch and we mentioned our upcoming 2009 Design Competition. Alexander Weiss and Matthew Flannery gave us good feedback and advised us to promote the club in the school more and encouraged us to try to have as many meetings as possible to spread the word of HVAC companies and Mechanical Engineering related opportunities.

THE GREAT SMOKE OUT, HONDURAS **City College of New York - Engineers Without Borders to** **Provide Chimneys for Smoke-free Kitchens**

*by Joanna Bonfiglio, Second-degree Mechanical
 Engineering student at CCNY*

It's lunchtime in La Nueva Suiza, a Honduran mountain town some 50 minutes by car from any major roadways—not because of a great distance, but due to the dilapidated infrastructure in the CIA-ranked second-poorest Central-American country. There in a villager's kitchen, the student members and faculty advisor from the City College of New York chapter of Engineers Without Borders (CCNY EWB) are taking a break from the construction of their water tank and distribution system project.

Not surprisingly, in an area where people do not have access to clean drinking water, homes are also not equipped with electricity. Still, it being midday in a country along the equator the kitchens should have plenty of light—except they don't; as you enter your eyes have to adjust to the dimness from the soot-covered walls and ceiling that absorb sunlight like a proverbial black hole and to the haze from lingering smoke. It's not the engineering problem the volunteer group signed on to help with during their January 2007 trip; they thought they would tackle water issues as a club theme. But it is clear that this town is also battling in-home air quality concerns because of chimney-less wood burning stoves with completely open burning chambers, which allow clouds of grey smoke to escape and blacken the interiors.

Like the smoke, the memory lingered. "I can recall in a couple of homes getting up from lunch to get some fresh air

when the wood was a bit wet and would smoke up the room," says Martin Nolan, CCNY '09, a second-degree student in mechanical engineering and ASHRAE's Frank M. Coda Scholar 2008-9, now serving as the current project manager for the Honduras ventures.

Fast-forward to 2008, the water tank and piping have been up and running successfully for almost two years now and the group is planning to address the town's ventilation problem on an upcoming January 2009 trip.

The tradition of this village is to construct stoves out of adobe mud brick that have exposed burning chambers where wood



*Plancha and exposed
 burning chamber*

is inserted and a metal plate, called a plancha, sits above the fire. Many of these homes are not equipped with chimneys and the temperature for proper wood combustion of 1400 degrees Fahrenheit is never achieved, meaning that carbon in the form of soot is produced but is not being vented out of the living space. This essentially lowers the level of air quality. In fact, according to Amy Smith, a mechanical engineer from MIT, the number one cause of death in children under five is inhaling smoke from indoor cooking fires. During a presentation for fuel alternatives available on TED.com, the Technology, Entertainment and Design Web site, she said that such air particulates claim the lives of more than two million children in the developing world each year, in extreme cases.

In everyday cases the escaping heat and smoke make it difficult to be in the kitchen area and a health survey conducted by CCNY EWB reported 18 percent of the approximately 400 residents mentioning eye problems and 46 percent complaining of a heavy cough.

"For the villagers, they make the fire in the morning and it runs all day," says Nolan. "So they get that smoke in their eyes and lungs every time they walk into the kitchen and as it is the main room in the house, it has to be 50 percent or more of the time they are in the house." The impact on young lives is especially significant as many households are comprised of eight or 10 children.

Other not-for-profits had offered to help La Nueva Suiza retrofit their stoves; one group came through with some materials but the others did not return. Ultimately, only a handful of homes were converted and experienced limited success. Although the single-walled stacks are less than two years old, the metal is already disintegrating due to the

quality of the materials used and the fact that they were constructed without drains, so when the shaft cools and contracts, condensation forms on the inside and has no where to be released, effectively rusting the chimney from the inside out.

To combat the ventilation problem the student chapter is trying to make certain design improvements and learn from the other groups' mistakes. This includes implementing National Fire Protection Association code by utilizing double-walled chimneys and also applying the principles behind the Onil stove, (<http://www.onilstove.com>), a popular Third World cooking model that recommends better burning chamber insulation to achieve greater temperatures and ultimately increase combustion so that both the wood and its smoke burn as fuel. In general the stoves, called horneas, are between 3-and-4 ft. tall and typically 2-by-4 ft. in length and width. Some are flush with the wall while others either jut out in a more perpendicular position or are completely freestanding in the middle of the room. Using concentric cylinders for the chimneys will help manage the heat for those freestanding stoves, making them less hot to the touch and safer for children to be around. The crux of this work pivots on classical mechanical engineering topics such as heat transfer and offers what CCNY EWB calls "raw engineering" problems for student volunteers.

And there are problems.

The project faces two main obstacles, the first of which was known about from the club's multiple trips to the region during their water tank work; mainly, that seven of the 13 homes in need of chimneys have thatched roofs.

"To circumvent the roof, we thought we could send the chimney out the wall," explains Nolan. "The wall is adobe so no risk there, so we thought. Huge impact, easy solution. Or maybe not." On closer examination they identified that the walls are reinforced with bamboo beams.

"The NFPA Code requires 18 inches between the chimney and a combustible material," he continues. "With the outer pipe at 4 inches, we would need a wall section with no wood in a 40 inches circle, over 3-ft. of space. No way. The wood is at 1-ft. spacing."

This made the decision for the group—the palm roofs have to be replaced with corrugated metal, as is the custom for those that have already made the home improvement.

The second complication took CCNY EWB by surprise when one local man asked if he could just have his roof replaced but did not want a chimney; he said he needed the smoke.

La Nueva Suiza is a predominantly agricultural community with many families supporting themselves by growing beans and corn, the latter of which presents a problem for the chimney project. The thatched roofs have a typical triangular exterior construction and on the interior there is a flat, dropped ceiling made of bamboo and wood beams. In this space between the ceiling and the roof the villagers keep their corn because the smoke that collects keeps insects from attacking their produce and works as a natural pesticide.



Martin discusses the project. The soot on the ceiling is obvious and between the cracks are the stalks of corn are visible.

The solution is supplying families with a small, 6-ft. tall "silo" to keep their corn away from insects and allow their houses to become smoke-free environments.

However, this growing project has significant financial implications. The cost of the chimney pipes are about \$65, add a cap to prevent rain from coming in and other odds and ends and it's still under \$100. But replacing the roof alone is roughly \$175 or 3,200 Lempiras, the local currency, and the silo is another \$25.

This pushes the limits of the school club's budget, which relies on funding from their college as well as grants and private donations from local rotary clubs and professional organizations.

Recently, a local parish started offering loans to replace thatched roofs and CCNY EWB hopes that if they work progressively by providing for the homes that already have metal roofs, other villagers will have a strong incentive to take out the loan and the club will still pay for the chimney materials, silo and one-quarter of the roof conversion.

Fundraising will always be a bigger hurdle for the group than any of the engineering obstacles—especially they feel with the current state of the economy.

"But we've done well so far as there is a big bang for the buck with a project like ours," says Nolan. "For a small sum, we do a lot and for a lot of people." So CCNY EWB remains ever optimistic and will keep with their motto, "improving daily life, one home at a time."

ASHRAE RETURNS TO CHICAGO FOR WINTER CONFERENCE AND AHR EXPO



Chicago, with one of the most recognizable skylines in the United States, has long-standing status as a livable urban center. That the city has stood the test of time makes it the perfect backdrop for this year's ASHRAE Winter Conference theme:

*Sustainable Urban Design:
Engineering Tomorrow...Today.*

The Palmer House Hilton will once again host ASHRAE January 24 – 28, with the ASHRAE co-sponsored AHR Expo taking place Jan. 26-28 at McCormick Place. The conference promises to be a great way to kick off the new year, with opportunities to interact with colleagues, learn technical information, and hear Keynote Speaker Chris Luebke of Arup speak on sustainability and thoughtful design and Technical Plenary speaker Adrian Bejan, Ph.D., explain technical evolution through “constructal theory” which he says can predict how everything flows through time and space.

The technical program highlights the conference theme and will feature presentations on energy conservation, indoor environmental quality, sustainability efforts and more that will help you earn your PDHs. Seeking to create additional value for Expo and Conference attendees, ASHRAE is launching “Wednesday Welcome,” at which all ASHRAE technical program sessions on Jan. 28 take place at McCormick Place. The “Wednesday Welcome” includes 18 hands-on, applications-type programs, held from 9 a.m. to 1:30 p.m., leaving the afternoon open to tour the Expo with more than 1,850 exhibits covering a world of equipment, systems, components and technology for the building industry. Admission to the “Wednesday Welcome” is included with your full ASHRAE Winter Conference registration or you can purchase a ticket for the full day for \$99.

You can also earn PDHs and CEUs at Professional Development Seminars and Short Courses brought to you by the ASHRAE Learning Institute.

Networking opportunities and chances to see Chicago are plentiful at the ASHRAE Winter Conference. Meet with old friends at the Welcome Party, Presidents Luncheon and Member’s Night Out. Technical tours of the city take you to the Intercontinental Hotel and The Art Institute of Chicago and you can see mansions and temples of the city, or take a cooking class on one of the general tours.

For complete, updated information and to register for the ASHRAE Winter Conference, go online to www.ashrae.org/chicago. Visit www.ahrexpo.com to learn more about the AHR EXPO.

BOARD OF GOVERNORS HIGHLIGHTS

Ever wonder what we’re talking about at our monthly Board meetings a week before the monthly dinner meetings? We discuss overall Chapter Operations and here are some of the items that we’re discussing at present:

- ASHRAE awarded three scholarships to students totaling \$6,000 for the academic year.
- Please check your e-mail to verify that you are receiving the bulletin – our new service provider is still receiving voided addresses. Please send your updated e-mail addresses to bulletins@ashraeny.org.
- Chapter is seeking membership from Practicing Institute of Engineers. This will help to serve our membership better with PDH awarding.
- Holding Student and Membership Promotion Nights at our dinner meetings and award membership certificates and scholarships.
- And last, but certainly not least, how best to serve our Membership...YOU!

And much, much more! Sound interesting? Anyone who is interested in helping out the Board of Governors on any one of our committees, events or activities, please contact Om Taneja.

RESEARCH PROMOTION

Brian W. Ryglewicz, Research Promotion Chair

The Research Promotion Campaign annually raises funds to support ASHRAE’s research program. It is conducted by the Society’s membership through local chapter volunteers and receives over 7,000 contributions each year from the membership and companies associated with the HVAC&R industry. Of these 7,000 contributors, about 50 are from our chapter.

This annual support totals more than \$1.5 million annually and is matched dollar-for-dollar by ASHRAE from the proceeds of the annual winter AHR Exposition. Since ASHRAE pays all the fund raising expenses, 100% of every donor’s invested dollar goes into the research program.

The New York City Chapter is expected to raise approximately \$25,250.00 towards the overall goal, but I believe our chapter is capable of much greater. After discussion our goal with ASHRAE Life Member Dick Batherman, I believe that the New York City Chapter should set its goal at \$30,000. The Chapter is counting on the continued support of our past contributors who generously supported us last year. We also look forward to gaining the support of new contributors. The Chapter will be recognizing contributors at the Monthly Dinner Meetings, in the Monthly Bulletin and at the Chapter’s website.

You can make your contribution several different ways:

- Attend a Monthly Dinner Meeting and deliver your personal check (made payable to “ASHRAE Resource Promotion”) to me. I will send the donation to ASHRAE for you.
- Attend a Monthly Dinner Meeting, prepare a Contribution Form and contribute via a major credit card.
- Go to https://www.ashrae.org/aboutus/resource_promotion.asp.
- Complete the form on this page and mail to:

NYC ASHRAE Research
c/o Chimney Design Solutions, Inc.
110 W. 40th Street #307
New York, NY 10018

All four methods require your ASHRAE membership number and the NYC Chapter’s number (008). Thank you again for all your support and I look forward to a great year!

Research Promotion Contribution Form

PLEASE COMPLETE THE INFORMATION & RETURN WITH YOUR CONTRIBUTION TO:

NYC Chapter of ASHRAE
c/o Chimney Design Solutions, Inc.
110 W. 40th Street #307
New York, NY 10018
212-685-7077

Please accept my research investment in the amount of \$ _____

Name _____ ASHRAE Member _____

Company _____

Address _____

City/State/Zip Code _____

Please check one of the following: () Individual Contribution () Corporate Contribution

Charge my donation to: () Visa () MasterCard () American Express

Credit card # _____ Expiration Date _____

Signature _____

Donors will be recognized at the Monthly Dinner Meetings, in the Monthly Bulletin and at the Chapter’s website. Honor Roll donors are listed in the ASHRAE Journal (October 2009) and will receive a commemorative coin. Honor Roll level is \$100 for individual donors and \$150 for corporate donors. Contributions of \$250 or more are considered Major Donors. For recognition and other information regarding Major Donors, please contact Brian Ryglewicz at 212-685-7077. All contributions are tax deductible.

ASHRAE GOVERNMENTAL UPDATES

EPA Proposes Ban on HCFC-22 & HCFC-142b Appliance Sales, Adjusting Allowances

EPA is proposing to ban the sale or distribution of air-conditioning and refrigeration appliances containing HCFC-22, HCFC-142b, or blends containing one or both of these substances, beginning January 1, 2010. In addition, EPA is proposing to extend these requirements to air-conditioning and refrigeration appliances that are suitable only for use with newly produced HCFC-22, HCFC-142b, or blends containing one or both of these controlled substances as the refrigerant, and pre-charged appliance parts. The ban would cover imported appliances and appliances ultimately destined for export, as well as appliances manufactured in the United States for domestic use.

Comments must be received on or before February 6, 2009. A public hearing was held January 7, 2009. For more information, see the Federal Register Notice (73 FR 78705) at <http://www.gpoaccess.gov/fr>.

EPA also proposes for HCFC-141b, HCFC-22, and HCFC-142b, to grant specified percentages of the consumption and production baselines for the control periods 2010–2014; and for other HCFCs to apportion company-by-company consumption and production baselines as well as grant specified percentages of the consumption and production baselines for the control periods 2010–2014. EPA is also proposing to amend the provisions for HCFC production allowances to meet the basic domestic needs of developing countries. In addition, EPA is proposing regulatory changes to complete the implementation of the section 605(a) ban on introduction into interstate commerce or use of HCFCs and clarifies its interpretation of this Clean Air Act provision.

Comments for this action must be received on or before March 9, 2009. A public hearing was held January 7, 2009. For more information, see the Federal Register Notice (73 FR 78680) at <http://www.gpoaccess.gov/fr>.

DOE: 90.1-2004 Saves Energy, States Must Meet or Exceed

As required by the Energy Conservation and Production Act, DOE has determined that ANSI/ASHRAE/IESNA Standard 90.1-2004 would achieve greater energy efficiency in buildings subject to the code than the 1999 edition. The quantitative analysis of the energy consumption of buildings built to Standard 90.1-2004, as compared with buildings built to Standard 90.1-1999, indicates national source energy savings of approximately 13.9 percent of commercial building energy consumption. Site energy savings are estimated to be approximately 11.9 percent. As a result of this positive determination regarding Standard 90.1-2004, each State is required to certify that it has reviewed the provisions of its commercial building code regarding energy efficiency, and updated, as necessary, its code to meet or exceed Standard 90.1-2004. State certifications or requests for extensions are required on or before December 30, 2010.

For more information, see the Federal Register Notice (73 FR 79868) at <http://www.gpoaccess.gov/fr>.

EPA Designates ODS Substitutes

This Determination of Acceptability expands the list of acceptable substitutes for ozone depleting substances under the U.S. Environmental Protection Agency's (EPA) Significant New Alternatives Policy (SNAP) program. The determinations concern new substitutes for use in the refrigeration and air conditioning, fire suppression and explosion protection, and foam blowing sectors.

- R-407A [R-32/125/134a (20.0/40.0/40.0)] is acceptable for use in new and retrofit equipment as a substitute for hydrochlorofluorocarbon (HCFC)-22 and HCFC blends including, but not limited to, R-401A, R-401B, R-402A, and R-402B in: Retail food refrigeration; Cold storage warehouses; Refrigerated transport; Residential and light commercial air conditioning and heat pumps.

- KDD6 is acceptable for use in new and retrofit equipment as a substitute for CFC-12 in: Chillers (screw, reciprocating); Industrial process refrigeration; Industrial process air conditioning; Retail food refrigeration; Cold storage warehouses; Refrigerated transport; Commercial ice machines; Ice skating rinks; Household refrigerators and freezers; Vending machines; Water coolers; Residential dehumidifiers; Residential and light commercial air conditioning and heat pumps; Non-mechanical heat transfer.
- R-427A
[R-32/125/143a/134a (15.0/25.0/10.0/50.0)] is acceptable for use in retrofit equipment as a substitute for HCFC-22 in: Retail food refrigeration; Industrial process air conditioning; Reciprocating chillers; Screw chillers; Household refrigerators and freezers; Residential and light commercial air conditioning and heat pumps; Motor vehicle air conditioning (buses and passenger trains only).
- R-424A
[R-125/134a/600a/600/601a (50.5/47.0/0.9/1.0/0.6)] is acceptable for use in new and retrofit equipment as a substitute for HCFC-22 in motor vehicle air conditioning (buses and passenger trains only).
- R-434A
[R-125/143a/134a/600a (63.2/18.0/16.0/2.8)] is acceptable for use in new and retrofit equipment as a substitute for HCFC-22 in motor vehicle air conditioning (buses and passenger trains only).

For more details, see the Federal Register notice (74 FR 21) at <http://www.gpoaccess.gov/fr>.

Intro to High-Performance Buildings Hill Briefing Scheduled

The High-Performance Building Congressional Caucus Coalition (HPBCCC) is sponsoring a briefing for members of Congress and their staff on January 13, 2009. The briefing will provide an introduction to the many aspects of high-performance buildings. ASHRAE is serving as the lead sponsor of the briefing with co-sponsorship from many organizations in the building community. This is the first of monthly briefings sponsored by the HPBCCC. Future topics include federal building energy use requirements, incentivizing

manufacture of high-efficiency products, and building energy labels.

Information on the Caucus, the supporting Coalition, and upcoming briefings is available at <http://www.hpbccc.org>.

ASHRAE Leads Formation of High-Performance Building Partnership

ASHRAE, along with nine other leading organizations, is forming a consortium in response to the U.S. Department of Energy request for consortia to advise the department on high-performance building issues. The High-Performance Commercial Green Building Partnership (HPCGBP) brings together leading organizations from all aspects of the building community to provide guidance and technical leadership on key sustainability issues to the Department of Energy's Building Technologies Program.

The partnership intends to be recognized as a "Partnership Consortium" by the Department of Energy as requested in response to the Energy Independence and Security Act of 2007 Section 421. Section 421 is part of the formation of the Net-Zero Commercial Building Initiative which is intended to develop a research, development, and deployment strategy toward achieving net zero energy commercial buildings.

For more information on the Partnership, visit <http://www.hpcgbp.org>.

PROFESSIONAL DEVELOPMENT HOURS

Available to P.E.'s at our Monthly Dinner Meetings

As I am sure all New York State licensed P.E.'s are aware, NYS Education Law Article 145 states: *"During each triennial (three-year) registration period an applicant for registration shall complete a minimum of thirty-six hours of acceptable continuing education..."*

What is meant above by "continuing education" are Professional Development Hours or PDH's and a NYS licensed Professional Engineer must accumulate thirty-six PDH's during each three-year registration period in order to be able to renew their P.E. license.

A Professional Engineer may be eligible to receive one (1) PDH for attending a monthly ASHRAE New York Chapter Technical Dinner Presentation.

The New York Chapter holds eight (8) dinner meetings a year, which means a P.E. attending all eight (8) meetings may be eligible to receive up to eight (8) PDH's for that year. That combined with a Chapter All Day Seminar awarding up to seven (7) PDH's (equaling a potential total of 15 PDH's for a year), means a P.E. may be able to accumulate **ALL** the PDH's they need in one year from the New York Chapter.

We at the New York Chapter are very excited about this opportunity to be a "one-stop-shop" to provide our P.E.'s with all their Professional Development Hours (PDH's) and hope you will take advantage by attending all our meetings.

To be eligible to receive PDH's at our meetings, all you have to do is sign in on the separate Sign-In Sheet at the dinner meeting registration table and that's it. **Be sure to have your PE License number available when you sign in.** For meetings that have been approved for a PDH, a certificate stating you attended the meeting will be made available at the subsequent dinner meeting. For example, the certificate stating that you attended the September dinner meeting will be available for you at the October dinner meeting and so forth. If you are unable to pick up your certificates at the dinner meetings, they will be mailed to you in June.

Please note, it costs \$20 for Student Members, \$30 for YEA Members, \$35 for NY Chapter Member and \$40 for Non-Members to attend a NY Chapter dinner meetings. **No additional cost to ASHRAE members and ASHRAE non-members will be enacted for the PDH service, however, regardless of whether or not you eat dinner, you still have to pay the full attendance fee.**

We at the Chapter invite all P.E.'s to attend our dinner meetings in 2008 to help usher in this new era of Professional Development. If anyone has any questions, please do not hesitate to contact:

Ed Falsetti
Professional Development Committee
 212.334.2025
ed.falsetti@burohappold.com

ASHRAE NEW YORK IS NOW PAPERLESS

EFFECTIVE AUGUST 2005, ASHRAE New York began e-mailing all monthly bulletins. This has helped defray the high cost of production, printing and mailing of the bulletin. Our monthly bulletins are also available on our web site for downloads.

By utilizing e-mail, ASHRAENY is also able to send reminders and other pertinent information to our membership in a relatively short manner.

If you have any concerns regarding our e-mail listing and privacy usage, please contact any member of the ASHRAENY Board of Governors. Contact information can be found at the back of this bulletin. Thank you in advance for your cooperation.

Likewise, if you are moving or change your address for any reason, please make sure to contact ASHRAE Society and update your information. We don't want to lose you!

Thank you for your patience as we shifted to a "paperless" bulletin and e-mail system. Please e-mail your updated e-mail address to bulletins@ashraeny.org to maintain your current address or get on the e-mail list.

CALL FOR NEW MEMBERS

Do you have a colleague, coworker, friend or acquaintance that is interested in joining ASHRAE? If so, please pass this information along to them...

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) is an international organization of over 55,000 professional and 5,000 student members. ASHRAE's mission is to advance the arts and sciences of heating, ventilation, air conditioning, refrigeration and related human factors to serve the evolving needs of the public and ASHRAE members.

Membership in ASHRAE is open to any person associated with heating, ventilation, air conditioning or refrigeration (HVAC&R). As a member you will have access to state-of-the-art HVAC&R technology. Your membership will also provide many opportunities to participate in the development of that technology.

In addition to the NY Chapter, participation is available through membership on Society committees, such as standards projects committees, which are responsible for the development of standards and technical committees which advise the Society on research needs, emerging technologies, and technical matters. Technical education and information is the greatest benefit of ASHRAE membership.

Others include:

- ASHRAE Handbooks - the most widely cited reference source for HVAC&R technology in the world. ASHRAE members receive one volume of the ASHRAE Handbook (which sells for \$144) each membership year at no charge.
- ASHRAE Journal - a monthly magazine, reviews current HVAC&R technology of broad interest through publication of application-oriented articles.
- ASHRAE Insights - a monthly newspaper that provides news about ASHRAE at the chapter, region and Society levels.
- ASHRAE publications - some 300 current titles, which members are able to purchase at a 20% discount.
- ASHRAE educational products - ranging from the Society's semiannual conferences to home study courses.

For additional information on ASHRAE membership, please contact Ernest Gallo, NY Membership Chair at 718.793.6900.

MEMBERSHIP

The New York Chapter of ASHRAE is encouraging everyone to invite interested applicants to ANY Dinner Meeting to become a member of the Society. If you bring an applicant to any meeting you and the new member will receive a complimentary dinner. To receive the complimentary dinner, the candidate must bring a completed application or fill in an application at the door. A **\$165 membership fee** is also required. Please bring cash or a check made payable to ASHRAE.

To all of our members we appreciate your membership and support. If you show up at a Dinner Meeting and your name is not on the list as a member of the New York Chapter we encourage you to check with ASHRAE and make sure you are listed under the New York Chapter. The New York City Chapter code is 008. If you don't specifically tell ASHRAE you will default to your listed address. Thanks again for your support." For additional information please contact the New York Membership Chair, Ernest Gallo at 718.793.6900, or via email at egallo@accardicompanies.com.

ASHRAE CODE OF ETHICS

As a member of a Society "organized and operated for the exclusive purpose of advancing the arts and sciences of heating, refrigeration, air conditioning, and ventilation, the allied arts and sciences, and related human factors for the benefit of the general public," ASHRAE Bylaws, June '97.

We recognize that honesty, fairness, courtesy, competence and integrity must characterize our conduct. With the foregoing in mind: Our efforts shall be directed at all times to the enhancement of the public health, safety and welfare; Our services shall be offered only in areas of our competence; Our products shall be offered only in areas of their suitability; Our public statements shall be issued only in an objective and truthful manner; Our endeavors shall carefully avoid conflicts of interest; The confidentiality of clients' and employers' business affairs, proprietary information, and procedures shall be respected.

Approved by the Board of Directors, June 22, 1986. The ASHRAE Code of Ethics is applied to all members and compliance is required for honors and awards nominees. The Code is posted online at www.ashrae.org

FROM THE EDITOR’S DESK

The ASHRAE Chapter Bulletin should reflect the opinions, activities and needs of its members. We represent an active membership and the Bulletin can provide a valuable and enjoyable forum for news of our individual members. Any announcements of interest, as well as letters, opinions, questions or comments should be address to: Neville Burrows, EME Group Consulting Engineers, 159 West 25th Street, New York, NY 10001 – nburrows@emegroup.com.

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"ASHRAE has compiled this publication with care, but ASHRAE has not investigated, and ASHRAE expressly disclaims any duty to investigate any product, service, procedure, design or the like which may be described herein. The appearance of any technical data, editorial material, or advertisement in this publication does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, procedure, design or the like. ASHRAE does not necessarily agree with any statement or opinion in this publication. The entire risk of the use of any information in this publication is assumed by the user. Statements made in this publication are not expressions of the Society or of the Chapter and may not be reproduced without special permission".

To view current resumes and/or employment opportunities, check out our new student center, or get the latest ASHRAE information, visit our web site at: www.ashraeny.org. To post resumes or job opportunities, please contact Neville Burrows at 212.529.5969 or nburrows@emegroup.com.

Remember you must be a current ASHRAE member to utilize this service.



MONTHLY DINNER LOCATION

Annie Moore’s
 50 East 43rd Street
 New York, NY
 (Between Madison & Vanderbilt)
 212.986.7826

PARKING INFORMATION

If you are driving to the meeting, we suggest you park at the Edison Park Fast at the Hippodrome Garage. It costs \$14 if you enter after 5:30pm. If you enter before 5:30pm and after 4:00pm, the cost is \$23.

Hippodrome Garage (Edison Park Fast)
44th Street @ 6th Avenue

(Rates include tax. Not to be combined with the Parking License Card. Oversized vehicles slightly higher)

2008/09 DINNER MEETING SCHEDULE

Note: The schedule below is tentative and subject to change.

Date	Topic/Speaker
January 20, 2009 Refrigeration Night	Natural Gas Driven Chillers <i>John Tauger</i>
February 24, 2009 Young Engineer’s Night	Microturbines <i>Bruce Beckwidth</i>
March 24, 2009 Research Promotion Night	ASHRAE Standard 189 <i>Dr. Tom Lawrence</i>
April 24, 2009	Maintain to Sustain <i>Bill Harrison, ASHRAE President</i>
May 26, 2009 Past President’s Night	Thermal Storage <i>Speaker TBD</i>

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WEB SITE/"PAPERLESS" BULLETIN	Kevin Gallen, Alexander Weiss
YOUNG ENGINEERS NIGHT	Ernest Gallo, Javier Aleman

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<u>RVC RESEARCH PROMOTION</u>	<u>RVC CHAPTER TECHNOLOGY TRANSFER</u>	<u>RVC STUDENT ACTIVITIES</u>	<u>REGIONAL CHAPTER PROGRAMS CHAIR</u>	<u>REGIONAL REFRIGERATION CHAIR</u>
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