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FEBRUARY DINNER MEETING Refrigeration Night

Date: Tuesday, February 26, 2008

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 Boggs
Liebert Corporation

Topic: High Density Cooling Issues
in Data Center

Cost: Members \$50.00*; Guests \$60.00
Student Members \$25.00
*\$5.00 Discount Available in Bulletin

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.

Professional Engineers are eligible for 1 PDH Credit

FEBRUARY DINNER SPEAKER/TOPIC

John Boggs started working with Emerson Network Power/Liebert in 1998. He is currently the Regional Sales Manager for Liebert's East Region. Prior to his current position, he served in various sales and engineering roles, including most recently as an Application Engineer for Liebert environmental products, providing technical support to Liebert's Northeast Region and Environmental OEM accounts. John has been involved in the cooling design and implementation of high density datacenters throughout the country.

John holds a B.S. in Industrial Engineering degree from The Ohio State University and earned a Masters Degree in Engineering Management from Ohio University. He has also worked in the automotive industry, specializing in manufacturing processes and quality control.

Topic

As server manufacturers increase the processing powers server, the heat increases; thus increasing the cooling requirements. The biggest culprit has been the unexpected implementation of blade servers. With proper room preparation, traditional cooling methods can extend the period which a data center requires major equipment changes. Once these limits are reached, supplemental cooling methods must be investigated. Multiple supplemental cooling options will be investigated.

John intends to convey what is happening in data centers in terms of heat loads, including background on the technology driving higher heat densities, specifically blade servers. He will also discuss the basics on preparing a data center for high density heat loads and subsequently

implementing supplemental cooling when necessary. Liebert high density solutions will be discussed briefly, followed by two simple case studies.

Informal discussions with the audience will be ongoing throughout the presentation. After the conclusion of the hour presentation, he will open the floor to further discussion and questions. Some questions he may ask the audience to assess learning are:

- What is happening in data centers today?
- How do I optimize my data center for high density heat loads?
- When should I consider supplemental cooling?
- What options do I have in supplemental cooling?
- Who is using supplemental cooling?

PRESIDENT'S MESSAGE

by Brian Ryglewicz

The 2008 Winter Meeting held in New York Chapter last month was a great success. With thousands in attendance, the Winter Meeting's technical program theme was Reaching New Heights in Net-Zero Energy Design. It is with great gratitude and appreciation that I thank the host committee on behalf of the New York Chapter for planning and executing this historic event.

Our Student Night at the January Dinner Meeting was a huge success. All student members ate for free and it provided an excellent opportunity for New York City engineering students to network with leading professionals in the HVAC and engineering industry. We continue to encourage our student members to attend the dinner meetings as it is a great informative and networking resource. Many thanks to Al Lyon who presented at last month's dinner meeting. Al presented applications and products for combustible and toxic gas detection and the theory behind it. The topic was very informative and

The February Dinner Meeting will be held on February 26th. John Boggs of Liebert Corporation will be presenting a course on High Density Cooling Issues in

Data Center. John will discuss design considerations for high density data centers.

Later in the year, the chapter has plans to host another All Day Seminar and – for the first time in years – we are planning a summer golf outing. Please stay tuned for more information.

As always, there is a 10% off coupon (for members) in this bulletin so do not forget to bring it to the meeting. I look forward to seeing you there!

PAOE FOCUSES ON SUSTAINABILITY

The PAOE supports President Terry Townsend's presidential theme of *The ASHRAE Promise: A Sustainable Future*, focusing on sustainability, young engineers and the global community.

"I am asking members to implement sustainability in their communities and their everyday business and personal lives," said Townsend. "By making a conscious effort now, we are contributing to the future of families and giving important resources back to our communities. This also helps fulfill the ASHRAE mission of 'advancing HVAC&R to serve humanity and promote a sustainable world,'" he added.

To support Townsend's theme, **PAOE awards points for sponsoring seminars related to sustainability, conducting a sustainability-oriented activity, such as planting trees or restoring natural habitats, and writing chapter newsletter articles dealing with sustainability.**

Points are awarded for sponsoring seminars relating to needs of young engineers, hosting a young engineers night, and enrolling young members.

Townsend said he also has simplified the program by reducing the number of items and eliminating most of the calculations. More information can be found at www.ashrae.org/paoe.



ASHRAE 2008 WINTER MEETING

By Alexander Weiss, PE - NY Chapter Historian

The 2008 ASHRAE Winter Meeting in New York City was an historical event. New York City, the birthplace of the Society, previously hosted the Winter Meeting in 1991.

President Kent Peterson delivered his State-of-the-Society address on January 21st during the Presidential Luncheon. His personal belief takes his message closer to the heart of the Society members, engineers and students. Full text of the address is available in the bulletin.

Many New York City officials, scientists, engineers, and students took part in the Winter Meeting. The following is a short list of speakers from New York City who made presentations at seminars and technical sessions: Laurie Kerr, Senior Policy Advisor for the New York City's Office of Long Term Planning and Sustainability, Rohit T. Aggarwala, Director, Office of Long Term and Sustainability, Harvey Brickman, P.E., Fellow Life Member, Tishman Construction, Robert Ajemian, Green Kitchen Design, Glenn D. Hughes, The New York Times, New York, NY, Donald J. Winston, P.E. Tishman Speyer, Scott Frank, P.E., Jaros Baum and Boiles, Daniel H. Nall, P.E., Flack + Kurtz, Jack Glass, Member, Citigroup, NY, NY, and Michael Bobker, Member, CUNY Building Performance Lab, NY, N.Y.

I received a lot of great comments about the Winter Meeting. Attendees and guests enjoyed the City and the well-organized event. The Host Committee under leadership of Joe F. Azara Jr. ensured the Winter Meeting was executed as scheduled. Many of the Chapter members volunteered under the direction of the Host Committee. Everyone who helped the Host Committee in this grandiose event deserves appreciation from New York Chapter Board of Governors.



The Golden Circle Award was presented to ASHRAE NY Chapter President, Brian Ryglewicz, at the 2008 Winter Meeting by ASHRAE President Kent Peterson

2008 WINTER MEETING STATE OF THE SOCIETY

by Kent Peterson, ASHRAE President

State of the Society Address - 2008 Winter Meeting

There is no question that we as an industry are in a period of change. This change will bring about many demands and challenges on ASHRAE as the need expands for high-performance buildings that are environmentally responsible. *Let me also emphasize that this is also a wonderful time to be an ASHRAE member!* We belong to a great organization. An organization that is rich in our body of knowledge as we are in our history. In the past several years, we have embraced change and defined our priorities. We have focused on what is important – improving the global built environment - while reducing its impact on the natural environment. We have learned to streamline our processes to develop guidance and tools quicker and better allocate valuable volunteer resources. We have sought the cooperation of many other organizations in pursuit of common goals.

I can report today that sustainability principles have now been woven into the very fabric of ASHRAE. The technical strength of our organization is noted around the world as I have traveled this year. It is you, our volunteers that create this strength in ASHRAE committees and chapters. It is your dedication and commitment to improvement that are an inspiration to organizations all over the world. We continue to improve the value of ASHRAE through our expanding knowledge base, our valuable research program, our network of chapters and student branches, and the precious interaction with and between associate societies.

ASHRAE continues to be the organization where members of the building and refrigeration community can come together, learn, share and collaborate – all for the greater good of society.

It really is a wonderful connection of vision, talent, and experience with a whole lot of passion.

Since we last met in June, oil has hit the \$100 per barrel milestone. As you recall, we were concerned in 2004 when the price of oil roughly doubled in a year to \$55 per barrel. Rising energy costs and the increased global awareness of the potential impact of climate change continues to drive home the message that low-energy, environmentally responsible, high-performance buildings are the future.

In my theme this year, I challenged all of us to be more innovative in our thinking, more elegant with our

solutions and more determined to deliver buildings that perform. I have been encouraged by the collective efforts I am seeing around the world in this regard. In our global quest of sustainability ASHRAE has diversified its focus on energy efficiency and low-energy buildings to include rational exergy management and low-exergy buildings. Sustainable building HVAC systems will need to be more efficient and move away from fossil fuel.

The international community has already taken important steps in this direction with contributions by ASHRAE members to IEA Annex 37-Low-Exergy Systems for Heating and Cooling of Buildings. As a first but important step, ASHRAE has established a Task Group, TG-1, *Exergy Analysis for Sustainable Buildings* to better coordinate ASHRAE exergy activities. Today, building energy efficiency represents a vast and still underutilized energy resource in the world. Buildings are the single largest user of primary energy and the single largest contributor of greenhouse gases. According to the Fourth Assessment Report from the Intergovernmental Panel on Climate Change (IPCC), the global residential and commercial building sector has the greatest potential to reduce greenhouse gas emissions using today's technologies. However, according to a poll published late last year by the American Institute of Architects, just 7 percent of U.S. voters knew that buildings were the largest contributor to U.S. greenhouse gas emissions.

Improving our public educational efforts could have an enormous impact on public perception and, in turn, spur far greater interest and investment in energy efficiency. I have spent time in the past few months informing both media outlets and legislators on the energy impact of buildings and the benefits of improving energy efficiency.

ASHRAE continues to be committed to providing aggressive energy efficiency improvements in both new and existing buildings through our standards, guidelines, and other publications. The ultimate goal is to get to market viable net-zero-energy buildings to reduce the built environment impact. The good news is that we have many activities currently underway aimed at helping the industry improve the performance of buildings.

We continue to develop and update ASHRAE standards while actively participating in the international standards arena. We are working to improve the energy efficiency requirements in Standard 90.1. Setting a more energy efficient baseline for building codes is a step that needs

to happen, and we are working within our consensus process to make this a reality. We are also expecting the second public review of Standard 189.1P, *Design of High-Performance Green Buildings*, to be out this spring.

I have been on a mission this year to promote energy efficient performance in buildings. The stated intent for energy efficiency at the design stage must transcend into the build, commissioning and operational stages if we are to succeed in substantially improving building energy performance.

ASHRAE and our partners are working together to develop better building performance metrics that will allow us to better benchmark performance. This effort will provide a consistent method of measuring, expressing and comparing energy use, water use, carbon emissions, and the indoor environmental quality of buildings.

I recently appointed a new Presidential Ad Hoc Committee to develop a program for ASHRAE Building Energy Labeling. Europe has similar building energy labeling programs being implemented to improve the visibility of actual building energy performance. The goal of the ASHRAE Building Energy Labeling Program is to develop a program that will recognize actual building energy consumption and encourage the efficient use of energy.

How did you like our new magazine, *High Performing Buildings*? Albert Einstein once said the best way to convince others is through examples. It is our goal to provide innovative case studies on building envelopes, daylighting applications, efficient lighting strategies, and low-energy HVAC systems used in *High Performing Buildings*.

We are looking for case studies for future issues – let us know if you have a High Performing Building project that has been in operation for at least one year and you would be willing to share the data and lessons learned.

As part of our effort to educate the marketplace on new innovative design methods, ASHRAE will provide a satellite broadcast on *Integrated Building Design* on April 16. This broadcast will explain how integrated building design can help you and other members of the building team create high-performance buildings. This free broadcast will be available via satellite and webcast.

ASHRAE was privileged to be a title sponsor of the recent U.S. Department of Energy Solar Decathlon Competition held on the National Mall in Washington, D.C. Teams of students from across the world

competed to design, construct and operate innovative, energy-efficient, solar powered homes. The Solar Decathletes - tomorrow's engineers, architects, researchers, and homeowners - shared with us a new vision for living in energy-efficient environments powered by renewable energy. My thanks goes out to the numerous ASHRAE members who volunteered their time to work with the various teams and assist during the competition.

Our *Advanced Energy Design Guide* series continues to play a significant role in our net-zero efforts. This series, now with three publications, has provided 30 percent energy reduction guidance for various types of buildings, including our latest for K-12 schools. And because we want more energy-efficient schools for our children, we sent the new K-12 guide to nearly 14,000 school systems across the United States. We are also working on a new *Advanced Energy Guide for Existing Buildings* that will help building owners and managers achieve at least 30 percent energy savings in existing buildings.

We are serious about getting this valuable information into the marketplace. We have made all of the Advanced Energy Design Guides available for free. Anyone can download a free electronic version directly from www.ashrae.org/freeaedg.

Our next step is to progress to the 50 percent energy reduction guides starting later this year. After the 50 percent Advanced Energy Design Guide series, we will progress straight to net-zero energy building guidance.

Let me now share with you [a video on net-zero-energy building](#). This video illustrates how to take a typical two-story building and achieve net-zero-energy use with existing technologies. Now more than ever ASHRAE needs to provide leadership. This leadership will require a steady vision, technical credibility, proper direction, and collaboration with other organizations - with immediate action in many areas.

I know that we are ready for this challenge. When we do what is right, burden changes to benefit. It truly is a wonderful time to be an ASHRAE member. Think about the difference we can make!

Let us go forward this year and demonstrate to the world we can engineer sustainable solutions to improve the environment in which we live. We remain determined to make a difference!

ASHRAE GOVERNMENTAL UPDATES

New International Clean Energy Fund to Battle Climate Change

President Bush committed to provide \$2 billion over the next three years for a new international clean energy technology fund. The President mentioned the fund during his final State of the Union Address, while an accompanying White House fact sheet includes the funding commitment and touts the fund as a tool to help confront climate change throughout the world. The new fund will increase and accelerate the deployment of all forms of cleaner, more efficient technologies in developing nations like India and China. It will also help leverage substantial private-sector capital by making clean energy projects more financially attractive. President Bush first proposed the fund in September 2007 at the First Major Economies Meeting on Energy Security and Climate Change. See the White House fact sheets on the energy aspects of the State of the Union Address (<http://www.whitehouse.gov/stateoftheunion/2008/initiatives/energy.html>) and on the September 2007 proposal (<http://www.whitehouse.gov/news/releases/2007/09/20070928-1.html>).

DOE Offers Solar Technical Assistance

The Department of Energy (DOE) is accepting requests for Technical Assistance for large-scale, high-visibility solar installation projects that have the ability to impact the market for solar technologies through large project size, use of a novel solar technology, and/or use of a novel application for a solar technology. In addition, it is desired that the project be replicable or have replicable components. Large-scale installations may include photovoltaic, concentrating solar power, solar water heating, and solar space heating applications. Technical assistance will not be provided for research, product development, or early stage testing and evaluation of any technology or product. Solar America Showcases focus on providing support to projects in which a commercially ready technology is to be installed in a large-scale application with full financial project commitment already in place.

Regarding the scale of the project, DOE is looking for projects with total capacity in excess of 100 kW. Projects may include multiple sites, and do not have to be co-located. In addition to the initial installation, the kW total may also include planned follow-on activities (direct replication efforts). Examples include installations in residential subdivisions, shopping

centers, office buildings or parks, big box retail locations, factories, and utility solar production.

Regarding the novel solar technology, DOE proposes to support projects that introduce new solar technologies that hold the promise of reducing initial costs, simplifying installation, and boosting consumer confidence, but which have little testing to date that demonstrates such improvements. Examples include new cell or module technology, new materials, or innovative installation and mounting techniques. By offering Technical Assistance, DOE envisions helping these new solar technologies develop a performance record in the marketplace, identify technical problems early in mass product releases, and devise solutions and alternatives that move specific solar technologies to cost-competitiveness by 2015.

Regarding the novel solar application, DOE expects to support projects that utilize solar technology in new ways. One example would be to include new methods of building integration beyond traditional roof-mounted modules. DOE also supports innovative designs and methods that open up previously untapped markets or end uses to solar technology adoption. Acceptable Solar Applications could also include those that are currently in use in other geographic areas, but not in the vicinity (State, region) of the proposed site. For more information, see the Federal Register announcement (73 FR 6172) available at <http://www.gpoaccess.gov/fr>.

Natural Resources Canada Releases Modeling and Compliance Software

Natural Resources Canada (NRCan) launched the latest version of the EE4 software. Designers can use this tool to model new buildings and determine energy performance relative to the Model National Energy Code for Buildings (MNECB). If the simulated energy performance exceeds the MNECB by at least 25 percent, designers can submit it to NRCan for validation of new building designs

<http://oee.nrcan.gc.ca/commercial/newbuildings/validation.cfm>

Access to modeling assistance and information on EE4 training also is at this Web site. To download the free software, visit the EE4 Software Web site (http://www.sbc.nrcan.gc.ca/software_and_tools/ee4_soft_e.asp).

ASHRAE GOVERNMENTAL UPDATES (CON'T)

President Bush Requests \$1.255 Billion for EERE in FY 2009

President Bush unveiled his proposed federal budget for fiscal year (FY) 2009, including \$25 billion for DOE. The budget requests \$1.255 billion for the DOE Office of Energy Efficiency and Renewable Energy (EERE), which is essentially equal to the President's budget request for FY 2008 but about 18% lower than the actual FY 2008 funding (not counting congressionally directed funds). Compared to the FY 2008 appropriations, the proposed budget boosts funding for geothermal energy by 51% to provide for field demonstrations of enhanced geothermal systems technologies. The budget also provides a 13.5% funding increase for research and development relating to biomass and biorefinery systems, a similar funding increase for efficient building technologies, and nearly level funding for the Federal Energy Management Program, vehicle technologies, industrial technologies, and wind energy. The budget proposal cuts hydrogen and fuel cell technologies by 69%, deferring hydrogen production research to focus instead on hydrogen storage and fuel cell technologies that are needed to develop a practical fuel cell vehicle by 2015.

The budget increases funding for state energy programs by 13% and proposes \$7.5 million in new funding for the Asia Pacific Partnership on Clean Development and Climate. It eliminates funding for Weatherization Assistance Grants, arguing that the energy efficiency retrofit program for low-income households has failed to catalyze broader solutions for the tens of millions of eligible homes that have never received retrofits. It also eliminates the Renewable Energy Production Incentive, which has become less effective as renewable energy technologies have become competitive and as limited funds have been distributed to a growing pool of eligible applicants. See the EERE Fiscal Year 2009 "Budget-in-Brief"

(http://www.eere.energy.gov/ba/pba/pdfs/FY09_budget_brief.pdf).

The proposed budget includes \$3.2 billion for the President's Advanced Energy Initiative, a 28% increase, and \$225 million for the President's Solar America Initiative, with \$156 million in the EERE budget and \$69 million in the budget for DOE's Office of Science. It also requests \$19.9 million for the administrative expenses of DOE's new loan guarantee program, while requesting an extension of its authorization to issue loans

through FY 2010 and FY 2011. The FY 2007 appropriations act authorized \$38.5 billion in loan guarantees, including \$10 billion for renewable energy, energy efficiency, and distributed energy generation, but gave DOE only two fiscal years to issue the loan guarantees. See the DOE press release (<http://www.energy.gov/news/5920.htm>) and page 42a (PDF page 86) of the explanatory statement that was issued with the appropriations act (www.rules.house.gov/110/text/omni/jes/jesdivc.pdf).

California Approves Feed-In Tariffs, Rewards Energy Efficiency

The California Public Utility Commission (CPUC) has approved long-term prices for the state's utilities to buy renewable energy from their customers. For seven of the state's utilities, the so-called "feed-in tariff," approved on January 31, applies to renewable energy systems located at public water and wastewater facilities, but for Pacific Gas and Electric Company (PG&E) and Southern California Edison (SCE), a separate feed-in tariff applies to any customer-located renewable energy system up to 1.5 megawatts in capacity. The tariff requires signing a long-term contract for 5, 10, or 15 years, but the price is adjusted based on the time of day of the power generation. For instance, for a system producing power throughout the day, a 15-year contract signed with SCE in 2008 would earn about 15 cents per kilowatt-hour on a summer weekday, while a system generating power from 8 a.m. to 6 p.m. (such as a solar power system), would earn about 22 cents per kilowatt-hour under the same circumstances. Overall, the tariffs range from 8 to 31 cents per kilowatt-hour. Facilities earning the tariff cannot be participating in other state incentive programs.

Feed-in tariffs have been used in other countries, such as Germany, to encourage a rapid growth in customer-located renewable energy systems, but the CPUC has set limits on the current tariffs. For systems at public water and wastewater facilities, the statewide capacity limit is set at 250 megawatts and is distributed among the seven utilities according to their size. For other customer-located facilities, the capacity limit is about 104.6 megawatts for PG&E and for SCE, about 123.8 megawatts. PG&E, SCE, and some of the other utilities offer their tariffs through two options: the customer can sell the utility only their excess power, or they can arrange to sell all the power from their facility to the utility. The new tariffs are effective immediately. See the CPUC order:

(http://docs.cpuc.ca.gov/Published/Agenda_resolution/78255.htm).

ASHRAE GOVERNMENTAL UPDATES (CON'T)

The CPUC also made a change to a program that provides financial rewards to utilities based on the performance of their energy efficiency programs. The program had allowed interim rewards to the utilities, but included a provision that could force a utility to repay the rewards if a review found that the program had fallen short. That provision was discouraging utilities from taking advantage of the program. To address the problem, the CPUC removed the payback provision but also lowered the size of the interim rewards. See the CPUC press release:

http://docs.cpuc.ca.gov/PUBLISHED/NEWS_RELEASE/78313.htm.

NEW MEMBERS

The New York Chapter of ASHRAE would like to recognize and welcome the following new members:

Jevon Griffin
(Student)

Joe Lambert

Douglas J. Lister

Richard Rogers

Kenneth Kiernan

2008 DINNER MEETING SCHEDULE

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

Date	Topic/Speaker
February 26, 2008 Refrigeration Night	High Density Cooling Issues in Data Centers (Joe Boggs – Liebert Corp.)
March 25, 2008	Topic TBD (E. Mitchell Swann, PE – ASHRAE Distinguished Lecturer)
April 22, 2008 History Night	Variable Refrigerant Flow Systems (Speaker from Daikan AC)
May 27, 2008 Past President's Night	Thermal Ice Storage Systems (Speaker from TRANE)

\$5

Dinner Meeting
COUPON

\$5

\$5

NY Chapter February Dinner Meeting
For ASHRAE NY Chapter Members Only
Print & Present at Door to Receive
\$5 discount off the price of admission
(Discount does not apply to Guests or Students)

\$5

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 can now 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 would receive eight (8) PDH's for that year. That combined with a Chapter All Day Seminar awarding at least six (6) PDH's (equaling a total of 14 PDH's for a year), means a P.E. can 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 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.** A PDH certificate stating you attended the meeting will be made available and 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 \$50 for an ASHRAE member to attend a NY Chapter dinner meeting and \$60 for an ASHRAE non-member to attend. **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.

RESEARCH PROMOTION

Michel Rimpel – Chapter Chair

**ASHRAE Research Promotion Donors for 2007
As of October 31, 2007**

Brian Ryglewicz
Om Taneja
Steamfitting Industry Promotion Fund

Money Donated YTD: \$1,700
Goal for 2008: \$25,250

The ASHRAE New York Chapter would like to thank all the individuals and companies above for contributing to ASHRAE Research. Join the elite group of industry leaders above by contributing!!!

Why contribute to ASHRAE Research?

Your Research donation goes DIRECTLY towards ASHRAE Research Projects for: **Indoor Air Quality; Healthcare Facility Design; Energy Conservation Guidelines; Fire & Safety Design Practices; Environmentally Safe Refrigerant Research;** and much, much more....

ASHRAE Research Promotion

I will support ASHRAE Research in the amount of
\$ _____ (Check enclosed payable to ASHRAE Research)

Member Number: _____

Phone Number: _____

Name: _____

Company Name: _____

Address: _____

City/State/Zip: _____

Please Check One: Company Contribution
 Personal Contribution

Charge my gift to: Visa American Express

Credit Card # _____

Expiration Date: _____

Signature: _____

Send to: ASHRAE Research Fund
 1791 Tullie Circle N.E.
 Atlanta, GA 30329-2305

TECHNICAL PAPERS

The following technical papers can be downloaded from our website at www.ashraeny.org. If hard copies are needed, please contact any of the BOG of ASHRAENY.

**Mold and Moisture Control Guidelines for Design,
Remediation and Operation of HVAC Systems
in New York City Buildings**

By TEGA Committee of ASHRAE – NY Chapter

Summary Report of Refrigeration

By Operational Committee ASHRAE – NY Chapter

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:

- Annual Dinner Dance was a success. We encourage our membership to participate.
- 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 Brian Ryglewicz.

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 complementary 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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MONTHLY DINNER LOCATION

Annie Moore's
50 East 43rd Street
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(Between Madison & Vanderbilt)
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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)

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.

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