



Bi-State Chapter Exchanger

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Serving the Hudson Valley and Western Connecticut

October 2012

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Upcoming Events

- **November 14** - Boiler Manufacturer Plant Tour
- **December 12** - ASHRAE Distinguished Lecturer James R. Tauby, P.E. — Seismic Restraint and Vibration Isolation
- **January 9** Acoustics—The Good, the Bad, and the Ugly
- **February 13** - Save the date
- **March 13** - Save the date
- **April 10** - Engineering Design Liability Issues
- **May 8** - Save the date
- **June 12** - Golf Outing

Meeting Monday October 15, 2012

Joint meeting with AIA Westchester Hudson Valley Chapter at their Design and Technology Expo at the Westchester Marriott Hotel, Tarrytown

The Expo Show is from 4:00 to 8:00. Seminars are held from 3:30 to 8:30 as well. The Expo is free to attend. Bi-State Chapter Members are eligible for the AIA member rate of \$10 to attend the seminars. Note that the AIA continuing education units are acceptable for engineering PDH credits. A list of the seminar topics is available on the website:

<http://www.aiawhv.com/cde.cfm?event=392224>

Amongst planned speakers, Bi-State Chapter BOG member Jim Dolan will be presenting on “High Performance Buildings: Lessons Learned in Design.”

Please register online at the AIAWHV website – use your ASHRAE member ID number in place of the AIA member number where prompted. You can pay for the seminars online as well.

We would like to encourage contractors, equipment vendors, engineers and the like to support this event by considering a display at the expo. You will reach builders, architects, engineers, and owners throughout the lower Hudson Valley area. A sponsorship form is available at:

<http://www.aiawhv.com/associations/11790/files/2012%20EXPO%20Exhibitor%20Agreement%20B.pdf>

The Westchester Marriot Hotel is located at 670 White Plains Road, Tarrytown

President's Message

By John A. Fusco, P.E., LEED AP

Welcome to Fall! As the weather begins to cool down (entering the shoulder season for all those in the know), our activities are beginning to heat up! We had a great meeting in September at the Captain Lawrence Brewery with fine food and drink, culminating with a tour of the brewery and a presentation on the resurgence of Gas Absorption Technology by Doug Davis of Broad USA. Thanks to our presenter and to Terry Connor for organizing this event. It was great to meet new members, and I sincerely hope we can have you back again for our future programs.

Our meeting this month is a joint effort with the AIA Westchester/Hudson Valley Chapter. The Bi-State Chapter has arranged to participate in their Design Expo event at the Westchester Marriot. It is an afternoon to evening event offering numerous courses of common interests to engineers, architects, and builders, and AIA credits are offered, which are valid for PE continuing education credits. A Trade Show and Exhibit is also offered, where various vendors can show their products and services. Please see the Meeting Notice for instructions how to register for the event on the AIAWHV website. The Bi-State Chapter will also be welcoming Joe Furman, Region 1 Director and Regional Chair (DRC), as a guest at this event.

Looking forward to seeing you at this event! Stay tuned and check for our emails and our website for information on upcoming events.

John A. Fusco, P.E., LEED AP
Bi-State Chapter President

Historical Note — Bob Roston, Bi-State Historian **The Refrigerator Rabbit Is Dead**

The Belgian rabbit 'Pete,' who has made his home for seven years, since infancy, in a refrigerator in the display room of the Consumer's Ice Co. Decatur, Ill., is dead. Pete's mode of living has received national notice and attracted the attention of refrigeration engineers who were interested in knowing how long a rabbit could live in a refrigerator. He was written up in the March 1946 issue of Ice and Refrigeration and made Ripley's 'Believe It or Not' cartoon.

He hadn't been sick a day in his life until Wednesday, Jan. 15, when it was noticed that he was not feeling good and the following Saturday morning he was found dead in his ice refrigerator home. Wayne Stone, general sales manager, conceived the idea of providing Pete with this unusual home to demonstrate the fact that ice melting in a refrigerator releases oxygen. Pete, who was a few weeks more than seven years old, had grown until he weighed 32 pounds.

— "The Ice Industry," Ice and Refrigeration, February 1947

Convergence of Building Management Data Creating Business Opportunities

The explosive growth in green buildings over the past decade is "flattening" the built environment marketplace, as well as creating new opportunities for business competition. According to an article in Forbes magazine, the convergence of information and communications technology and physical infrastructure in the built environment is providing building owners with actionable information about a building that allows them to manage it more effectively. This green-induced convergence is also shaking up the competitive dynamics of the commercial real-estate market, creating business opportunities for companies of all sizes. According to the article, large and small companies are scrambling to take advantage of this convergence by developing integrated building information, management and controls platforms that can cover entire building portfolios.

ASHRAE Brings Technology, People Power in Support of Engineering for Change

ASHRAE has joined forces with an international engineering program to encourage its members to use their knowledge and technology to meet humanitarian challenges across the globe.

ASHRAE is now a network supporter of Engineering for Change (E4C). E4C is a growing community of engineers, technology professionals, designers, scientists, non-governmental organizations (NGOs) and local community advocates who are working together to design, apply and share innovative and sustainable technical solutions to a broad range of humanitarian challenges in local communities around the world.

“By partnering with Engineering for Change, our members can contribute their knowledge and our technology to help improve the quality of life for people around the world,” ASHRAE President Tom Watson said. “Our involvement allows us to match the technology to the need, to find affordable solutions that benefit communities and ourselves.”

“We are delighted to welcome ASHRAE to the E4C coalition,” Noha El-Ghobashy, president of Engineering for Change, said. “ASHRAE’s longstanding commitment to the promotion of engineering excellence in the service of sustainability and humanity makes it a natural ally for the work of the E4C coalition. We look forward to working together with ASHRAE and its distinguished membership for years to come.”

The initiative is part of Watson’s presidential theme Broadening ASHRAE’s Horizons, which emphasizes the role of ASHRAE members as leaders in the application of sustainable design and practices in our communities worldwide. Under E4C (www.ashrae.org/e4c), ASHRAE members can get involved with existing projects or start new ones. Watson noted that there is a wide range of projects – from refrigeration to hospitals to indoor air quality – to which members could contribute their technical expertise.

Watson also is encouraging ASHRAE members and chapters to examine ways to get more involved in their local communities. Another effort underway is ASHRAE’s Community Sustainability Project program (www.ashrae.org/community), which is designed to encourage members to volunteer with local non-profits or other associations for activities such as engineering and installation of energy efficiency measures for their facilities.

7th INTERNATIONAL COLD CLIMATE HVAC CONFERENCE

November 12–14, 2012 | Calgary, Alberta

www.ashrae.org/coldclimate

International applications and innovations in cold climate
HVAC design.



September Bi-State Chapter Meeting at the Captain Lawrence Brewing Company



Join ASHRAE at its 2013 Winter Conference and the AHR Expo®!

Jan. 26-30/Jan. 28-30, Dallas

Register before Nov. 4 and SAVE!!!



Technical Program—join your fellow members and industry leaders to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design

Virtual Conference—if you can't make it to Dallas, take advantage of the knowledge shared in the technical program with the Virtual Conference

AHR Expo—The ASHRAE co-sponsored AHR Expo takes place Jan. 28-30 at the Dallas Convention Center. www.ahrexpo.com

ASHRAE Certification—all six certification programs are being offered: Building Energy Assessment Professional; Building Energy Modeling Professional; Commissioning Process Management Professional; High-Performance Building Design Professional; Healthcare Facility Design Professional; and Operations and Performance Management Professional.

ASHRAE Learning Institute—five Professional Development Seminars and 15 Short Courses are offered, including new courses on the air-to-air energy recovery, ultraviolet germicidal irradiation systems, combined heat and power efficiency, laboratory design and HVAC systems optimization.

www.ashrae.org/dallas

Students Read Up on Their Practical Design Knowledge to Win ASHRAE Design Competition

ASHRAE's 2012 Student Design Competition had participants doing their research of HVAC&R system selection and design calculations as well as integrated building design to encourage practical design. This year's competition featured a mock design of the newly constructed Joe and Rika Mansueto Library located in Chicago, Ill. The library consists of a glass dome covering 15,000 square feet of usable area on the ground floor, half of which is dedicated to a reading area and half to a preservation laboratory. The lower level of the building consists of a large warehouse for archived publications and materials. Among the entries from around the world, three were awarded first place in the three categories that the competition offers.

First place in HVAC System Design Calculations is awarded to John Bisacquino, Josh Dennis and Travis Westover of Temple University, Philadelphia, Pa. Their faculty advisor is Steven Ridenour, Ph.D., P.E. The team chose a ground source heat pump system to generate hot and chilled water for the entire building. In order to eliminate the necessity of a cooling tower, a ground source water loop rejects heat to the earth in the cooling mode and absorbs heat in the heating mode. Ground source heat pumps have a lower operating and maintenance cost and analysis showed any additional cost of installation would be covered in as little as 10 years.

For the interior rooms on the ground floor, packaged water to air heat pumps were specified, which can be incorporated in spaces with smaller heating and cooling load requirements. For the larger areas of the ground floor (grand reading room, etc.), air handling units with water to water heat pumps will be installed to meet the larger capacities required for heating and cooling. Water to water heat pumps generate hot and chilled water, while the air handling unit filters and supplies the conditioned air to the space.

In order to maintain strict temperature and humidity levels in the basement storage area, a constant air volume with system will be installed. Due to the high volume of books being stored in the basement, the air must circulate continuously to maintain the target temperature and humidity levels specified by the owner. Since strict humidity levels are desired, a desiccant dehumidifying system was designed.

First place in HVAC System Selection is awarded to Alaina Booth, Adam Buck, Jami Harper, John May and Patrick MacBride of the University of Nebraska-Lincoln, Nebraska. Their faculty advisor is Joe Hazel, P.E., ASHRAE-Certified Healthcare Facility Design Professional. After analyzing three system designs for the library, the team selected a ground coupled heat exchanger (GCHE) to serve a modular packaged heat recovery chiller system with variable air volume air handling units for the upper level of the library, and constant air volume air handling units for the periphery of the upper level and the lower level archive area.

The GCHE consists of a geothermal loopfield that transfers heat as needed for the primary system; the loops converge at the packaged heat recovery chiller to transfer energy to and from the field to the building systems. The air handling units for the upper level serve both terminal boxes in office areas, and a displacement ventilation system in the open areas of the library. The constant volume air handling unit serving the archive area includes a dual energy recovery unit to tightly control humidity. In order to better serve the high ceiling space, two air circulation units are placed at either end of the archive area so that stratification cannot occur. The selected system shows a 73 percent improvement in energy efficiency compared to the ASHRAE Standard 90.1 baseline building model and is projected to reduce operating costs approximately \$1.35 million over 20 years.

First place in Integrated Sustainable Building Design is awarded to Dustin Altschul, Prathamesh Chakradeo, Ravik Chandra, Saikrishna Ganesan, Timothy Hertel, Varun Krishnan and Charles Stratton of the University of Cincinnati, Cincinnati, Ohio. Their advisor is Raj M. Manglik, Ph.D. To meet the electrical demand of the building, the students decided that photovoltaic glass would be used on the dome of the library. Daylighting also played a large role in the students' design, and window glazing was selected to offer a balance between solar heat gain and visible transmittance.

Due to the specific humidity requirements of the archives of the library, the team determined that two individual air distribution systems were necessary, which ultimately allowed for more control and energy operating costs savings. Geothermal heating was selected as the central heating system, which requires little maintenance and has a low operating cost. Additionally, exterior insulated concrete walls, which allow for no air infiltration, minimize noise and the transference of heat and cold and a switch to dual flush toilets, along with rainwater harvesting, will reduce water consumption by 22 percent.

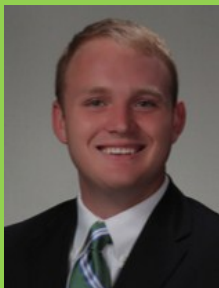
The Student Design Competition recognizes outstanding student design projects, encourages undergraduate students to become involved in the profession, promotes teamwork and allows students to apply their knowledge of practical design. The projects will be shared at the ASHRAE 2013 Winter Conference in Dallas, Texas, January 26-30, 2013.



Integrated design is changing the way buildings are designed, constructed and operated; different professionals each bring an important element to the table that results in a successful, sustainable building. Education is no different: Students bring the ambition, ASHRAE offers the financial support, and together they create an educational degree that will lay the foundation for a sustainable career.

Please help ASHRAE promote the availability of **more than 20 Society scholarships** for the 2013–2014 school year, available to high school seniors entering college through senior undergraduate engineering students.

- Two High School Senior Scholarships—\$3,000 each
- Three Engineering Technology Scholarships—\$3,000 each
- Six Regional and University-Specific Scholarships—\$3,000–\$5,000 each
- 11 Undergraduate Engineering Scholarships—\$3,000–\$10,000 each



“The support the scholarship provides has relieved an enormous worry about the cost of tuition. The Willis H. Carrier Scholarship has solidified my involvement in ASHRAE and motivated me to work hard to complete my degree so that I can contribute as much to the HVAC&R industry as Willis H. Carrier has.”

Partrick McGrail, 2012-2013 recipient of the Willis H. Carrier Scholarship, secretary of the ASHRAE Kansas State Student Branch

Annual Application Deadlines:

December 1 for Undergraduate Engineering, Regional and University-specific Scholarships.

May 1 for Engineering Technology and High School Senior Scholarships.

Scholarships are awarded for the academic year following the application deadline beginning with the fall semester. For a list of available scholarships, complete eligibility requirements, and an application, visit www.ashrae.org/scholarships

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Why Be Involved in a Local Chapter?

- Learn about the latest technologies presented in the program sessions
- Attain continuing education credits
- Meet industry associates and discuss local concerns
- Network amongst designers, installers, vendors, educators, in your local area to help improve business for all
- Share experiences with others
- Enjoy a social hour
- Carry out ASHRAE's mission on a local level

To advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world.

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ASHRAE Releases Third Edition of Thermal Guidelines for Data Processing Environments

Four new data center classes that can enable fulltime economizers for a number of applications in many climates are contained in the latest edition of the principal book in the ASHRAE Datacom Series of publications. Since its first edition in 2004, ASHRAE's "Thermal Guidelines for Data Processing Environments," published by ASHRAE's Technical Committee (TC) 9.9, Mission Critical Facilities, Technology Spaces and Electronic Equipment, has become the de-facto reference material for unbiased and vendor-neutral information on the design and operational parameters for the entire datacom (data centers and telecommunications) industry.

Based on the latest information from major IT equipment manufacturers, which are an integral part of the committee, it has never been easier to obtain the most meaningful data to guide data center designers and operations staff to design and run their facilities in the most energy efficient manner possible, including how to operate in a completely "chillerless" environment. Further, the guidance enables a more energy efficient operation without compromising the reliability or "mission" of the data center.

"This third edition creates more opportunities to reduce energy and water consumption but it is important to provide this information in a manner that empowers the ultimate decision makers with regards to their overall strategy and approach," Don Beaty, chair of the Publications Subcommittee of TC 9.9, said. "The idea is to provide objective data, methodology and guidance, but at the same time, respect the right of the data center designers, owners and operators to optimize the operating environment of their data center based on the criteria most important to their business needs."

Highlights in this third edition include new air and liquid equipment classes and expanded thermal envelopes for facilities that are willing to explore the tradeoffs associated with the additional energy saving of the cooling system through increased economizer usage and what that means in terms of the impact to IT equipment attributes such as reliability, internal energy, cost, performance, contamination, etc.

"The most valuable update to this edition is the inclusion of IT equipment failure rate estimates based on inlet air temperature," Beaty said. "These server failure rates are the result of the major IT original equipment manufacturers (OEM) evaluating field data, such as warranty returns, as well as component reliability data. This data will allow data center operators to weigh the potential reliability consequences of operating in various environmental conditions vs. the cost and energy consequences."

The book is part of the ASHRAE Datacom Series, developed to provide a more comprehensive treatment of datacom cooling and related subjects. Other books in the series are "Green Tips for Data Centers," "Particulate and Gaseous Contamination in Datacom Environments," "High Density Data Centers – Case Studies and Best Practices," "Design Considerations for Datacom Equipment Centers," "Best Practices for Datacom Facility Energy Efficiency," "Datacom Power Trends and Cooling Applications," "Real-Time Energy Consumption Measurements in Data Centers," "Liquid Cooling Guidelines for Datacom Equipment Centers" and "Structural and Vibration Guidelines for Datacom Equipment Centers."

The cost of "Thermal Guidelines for Data Processing Environments, Third Edition," is \$54 (\$46, ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit www.ashrae.org/bookstore.

ASHRAE/NIST REFRIGERANTS CONFERENCE

October 29–30, 2012 | Gaithersburg, Maryland

www.ashrae.org/refrigerants2012

New low GWP fluorochemical refrigerants and equipment
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Notice to business card advertisers:

We are currently accepting business card advertisements for this year's newsletters. The cost of a business card ad is \$125.00. The newsletter is published monthly, September through June (ten issues). That means for \$125.00 (\$12.50 an issue), your business card ad will circulate to approximately 300 recipients a month or an advertising cost of approximately 4 cents/recipient.

If you are interested in placing an ad, please forward a business card and check (payable to ASHRAE Bi-State) to:

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Employment Opportunities

Employment ads may be submitted for inclusion in **The Exchanger** as follows:

1. \$100.000 from companies placing ad for one (1) month.
2. \$150.00 from companies placing ad for two (2) months.
3. No charge for members looking for employment.

Massachusetts Leads U.S. States in Promoting Energy Efficiency

Massachusetts, for the second consecutive year, ranks highest among the states in advancing energy efficiency initiatives, according to the American Council for an Energy-Efficient Economy's (ACEEE) sixth annual *State Energy Efficiency Scorecard*. "We find that more and more states are taking action to improve energy efficiency..." said ACEEE senior policy analyst and Scorecard lead author Ben Foster. "It's no secret why they want to accomplish that: energy efficiency is a pragmatic and effective strategy for promoting economic growth, creating jobs, and securing environmental benefits." Twenty-four states have adopted and funded Energy Efficiency Resource Standards (EERS), which set long-term energy savings targets and drive investments in utility-sector energy efficiency programs.



ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow’s built environment today.

ASHRAE will be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating.

Upcoming Meetings

Month	Date	Promotion	Main Presentation	Tech Session
October	10/15/2012	Sustainability	Joint meeting with AIA Westchester at their Design Expo Event, Westchester Marriott	
November	11/14/2012	Membership Promotion	Boiler Manufacturer Plant Tour	
December	12/12/2012	Research Promotion	ASHRAE Distinguished Lecturer James R. Tauby P.E. — Seismic Restraint and Vibration Isolation	
January	1/9/2013	Student Activities	Matthew T. Murello, P.E. of Lewis S. Goodfriend & Associates Acoustics — The Good, the Bad, and the Ugly	
February	2/13/2013	Research Promotion		
March	3/13/2013	Membership Promotion		
April	4/10/2013	Sustainability	Nahom A. Gebre, Esq., P.E. Risk Management Attorney Victor O. Schinnerer & Company, Inc. Engineering Design Liability Issues	
May	5/8/2013	Student Activities		
June	6/12/2013	Student Scholarships	Golf Outing	

Lighting Quality Requirements Proposed for Green Building Standard

Lighting requirements to enhance productivity and comfort of occupants have been proposed for a green building standard from ASHRAE, the U.S. Green Building Council (USGBC) and the Illuminating Engineering Society (IES). ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings, provides a design standard for those who strive for high performance buildings. It covers key topical areas of site sustainability, water-use efficiency, energy efficiency, indoor environmental quality and the building’s impact on the atmosphere, materials and resources.

Proposed addendum m would add lighting quality requirements to the scope of the Indoor Environmental Quality section of the standard. The proposed addendum is one of nine proposed changes to Standard 189.1 open for public review from Sept. 14 -Oct. 14, 2012. To comment on the proposed changes or for more information, visit www.ashrae.org/publicreviews.

This particular addendum addresses a subset of the lighting quality issues with the expectation that future addenda will be developed to address remaining issues. Subsections 8.3.6.1 and 8.3.6.2 require that the occupants of certain space types be given some level of control over the light levels in that space.

A proposed third section, 8.3.6.2.1, ensures that certain media, such as whiteboards, are more likely to be properly illuminated by requiring separate lighting and lighting control for these surfaces, independent from the general lighting and control in the space.

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