Exchanger

Ashrae Bistate Chapter

Volume XXV, Issue V | Serving the Hudson Valley and Western Connecticut | January 2012

Meeting Wednesday January 11, 2012

2 PDH Credits Approved

Presentation: Wireless Technology in the HVAC Industry

Ron Padilla, Regional Systems Account Manager for Johnson Controls, will deliver a Technical Presentation on Wireless Technology in the HVAC Industry. Ron's presentation will cover the History of wireless devices in the HVAC industry, a detailed look into today's wireless monitoring and control systems, tips and guidelines for wireless design and installation, and the benefits to an Owner associated with wireless systems.

Place: Casa Rina, 886 Commerce Street, Thornwood, NY 10592

Program: 5:30 - 6:00 PM Attitude Adjustment Time
6:00 - 7:30 PM Buffet Dinner
7:30 - 8:30 PM Main Presentation

$25 Members, $30 Non-Members
Engineering students: complimentary admission

The general public is invited and encouraged to attend.

Directions to Casa Rina

From Saw Mill Parkway - North or South
Exit at Marble Avenue - Exit # 27
Make right - continue to second traffic light
Make right onto Commerce Street
Casa Rina is the second house on your left.
Parking is on your right.

Please make reservations by contacting:
Nicholas Salomone ashraebistate@gmail.com

Upcoming Events

- ***February 8th*** - *Save the date*
- ***March 14th*** - *Save the date*
- ***April 11th*** - *Save the date*
- ***May 9th*** - *Save the date*
- ***June 13th*** - *Golf Outing*

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President's Message

By Nicholas Salomone

On behalf of the entire Chapter, I would like to extend our gratitude to Thomas Reyes for providing an informative 1.5 PDH Trane DVD on "Energy Saving Control Strategies for VAV Systems." Our upcoming meeting on January 11th should make for yet another interesting and informative evening. We will be having a 2 PDH night on "Wireless Controls" by Johnson Controls. On behalf of my fellow officers and the Board of Governors, I would like to wish our Bi-State Chapter members a happy and prosperous new year!

Nicholas Salomone
Bi-State Chapter President

New Book Offers Guidance on Implementing Energy Savings Plan

Guidance on increasing energy efficiency in existing buildings through measuring and tracking efficiency and implementing an efficiency plan is featured in a new book from leading built environment organizations.

Energy Efficiency Guide for Existing Commercial Buildings: Technical Implementation provides clear and easily understood technical guidance for energy upgrades, retrofits and renovations by which building engineers and managers can achieve at least a 30 percent improvement in energy performance relative to a range of benchmark energy utilization indexes. It features practical means and methods for planning, executing and monitoring an effective program, based on widely available techniques and technologies.

"Energy efficiency improvement in buildings is one of the greatest means to increase resource efficiency, improve environmental stewardship and save operating funds," George Jackins, who chaired the committee overseeing the book, said. "More importantly, energy efficient improvement should happen because it makes good business sense. Good planning and on-going commitment is essential to maximizing investments in energy efficiency."

Improving energy in an existing building is an iterative process, but first you have to know where you are starting from, according to Jackins. The book recommends some tips on how to begin the energy savings process:

1. Calculate energy use and cost
2. Set energy performance goals
3. Measure and analyze current energy use
4. Select and implement energy efficiency measures
5. Measure and report improvements
6. Continue to track performance and reassess goals

Energy Efficiency Guide for Existing Commercial Buildings: Technical Implementation is the second energy efficient guide for existing commercial buildings developed by the same group developing at the Advanced Energy Design Guide series for new buildings – ASHRAE, the American Institute of Architects, the Illuminating Engineering Society of North America and the U.S. Green Building Council and supported by the U.S. Department of Energy. In addition, the Building Owners and Managers Association and the U.S. General Services Administration were involved in its development. The first, "Energy Efficiency Guide for Existing Commercial Buildings: The Business Case for Building Owners and Managers," provides the rationale for making economic decisions related to improving and sustaining energy efficiency in existing buildings.

The cost of *Energy Efficiency Guide for Existing Commercial Buildings – Technical Implementation* is $75 ($64, 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/

ASHRAE Technology Awards Highlight Outstanding Building Projects

Designers of systems for a university building, a cancer center, an ice rink and other commercial building are recognized by ASHRAE for incorporating elements of innovative building design. The ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building design. Their designs incorporate ASHRAE standards for effective energy management and indoor air quality. The awards communicate innovative systems design to other ASHRAE members and highlight technological achievements of ASHRAE to others around the world. Winning projects are selected from entries earning regional awards.

"Every year, the judging panel looks forward to reviewing the outstanding projects submitting by our membership," Nathan Hart, chair of the judging panel said. "Being a consulting engineer myself, I appreciate the effort involved in submitting an entry to Society-level competition. I enjoy seeing what fellow ASHRAE members are doing to strive for more energy efficient, well ventilated maintenance friendly building designs. Many of the entries this year incorporated innovations and technologies that took advantage of their specific geographical locations to provide more energy efficient systems—helping to highlight that one size does not fit all and that a more energy efficient design solution may be available when considering the project as a whole." Following are summaries of the winning projects.

Mountain Equipment Co-op
Roland Charneux, P.Eng., ASHRAE Fellow, ASHRAE Certified Healthcare Facility Design Professional, Pageau Morel & Associates, Montreal, Quebec, Canada, receives first place in the new commercial buildings category for the Mountain Equipment Co-op store, Longueuil, Quebec, Canada. The building is owned by the Mountain Equipment Co-op. The Mountain Equipment Co-op store, a 22,600 sq. ft. single story retail sporting goods outlet, was designed and built so as to have a minimal impact on the environment. Traditionally, artificial lighting contributes to a large part of the total energy consumption in commercial retail stores. It was thus decided to maximize day lighting through a series of clerestory with a saw tooth shape roof. Also, light sensors were integrated in the design to partially or completely shut down the artificial lighting when natural lighting is sufficient. Occupancy sensors were integrated in small spaces to completely shut off lighting when not in use.

Optimization of the envelope resulted in an envelope insulated near twice the recommendations of the Model National Energy Code for Buildings, thus reducing the overall energy needs for the building. Structural Insulated Panels (SIP) were used for their efficiency, tightness and minimal construction time. Energy simulations showed a measured annual energy saving of 54 percent and cost savings of 57 percent.

Taking into consideration new, unpacked products that retail stores carry—which bring pollutants into the occupied zone—and racking which impedes good air distribution if supplied from the ceiling, air is supplied via underground air distribution with displacement ventilation diffusers at floor level. Additionally, the building utilizes active solid thermal energy storage in its concrete slab; an underground cistern to collect rain water and to feed the water closet, as well as waterless urinals; and natural/hybrid ventilation with leeward vents at roof level, to name just a few innovations. Overall, the new store consumes 57 percent less than the recommendations provided by the Canadian Energy Model Code.

IKEA Brossard Distribution Center
Ken Sonmor, Ecovision Consulting, Montreal, Quebec, Canada, receives first place in the existing commercial buildings category for the IKEA Brossard Distribution Center, Quebec, Canada. The building is owned by the IKEA Distribution Services, CA LP. The extensive distribution center (79,750 sq. m.) belonging to one of the largest furniture retailers in the world consists of a warehouse, where goods are received, stored and then shipped, along with adjoining office spaces.

On the lighting front, nearly 700 T12 high output (HO) lighting fixtures were replaced with a combination of T8 and T5 HO lights. An additional 510 high-intensity discharge fixtures were replaced with T5 HOs fixtures with custom made reflectors to bring the light where needed. Motion sensors were installed throughout the entire facility shedding 250kW of lighting power. Luminosity sensors near windows in the office areas turn off lighting when not required thus harvesting daylight.

A 160T geothermal system is now the principal source of heat for the building. To attain the greatest possible efficiency, a dual maglev frictionless compressor heat pump was chosen. A greater number of wells than average maintain a very close approach with the ground temperature of 50 F. This higher temperature permits the reduction of glycol concentration which benefits the efficiency of the heat pump, the heat transfer through the vertical geothermal wells and lower pumping power. These improvements allow for a coefficient of performance of 5-7 in heating—representing a 50 percent improvement over a traditional geothermal layout. During a typical winter, the geothermal system is capable of supplying 70 percent of required heat. The overall project thus provides greater human comfort, with never-before cooling in the warehouse while realizing greater than 50 percent dollar energy savings.

Université de Sherbrooke
René Dansereau, Dessau, Longueuil, Quebec, Canada, receives first place in the educational facilities category for the design of the Université de Sherbrooke—Campus de Longueuil, Quebec, Canada. The building is owned by the Université de Sherbrooke. With its 16-story glass tower built in the heart of Longueuil's downtown area, the Université de Sherbrooke's new campus building is one of the tallest structures on Montreal's South Shore. The 650,000 sq. ft. campus includes classrooms, offices and labs for nine faculties under a single roof. Its architectural design focuses on open spaces and gathering areas, such as a green roof "oasis," to enhance a sense of community within the campus.

Determined to create an eco-friendly building, Dansereau and his firm took a unique approach to engineer the heating, ventilation, and air-conditioning systems: Right from the start, designers chose an integrated design approach to the project. Though geothermal energy is rarely used in urban settings, designers connected a chiller to a geothermal system consisting of 37 vertical boreholes. The 165-ton screw chiller acts essentially like a heat pump and provides about 25 percent of the building's heating and cooling capacity.

(continued on page 4)

ASHRAE Technology Awards Highlight Outstanding Building Projects (continued)

With average winter temperatures falling significantly below freezing in the Montreal area, fresh air treatment can be quite costly. To enhance energy savings, three enthalpy wheels were installed on new ventilation units. These wheels recover latent and sensible heat that is usually lost in exhaust air. With an efficiency rate of 76 percent, the wheels help reduce annual heating, cooling and humidity demands.

Along with several other energy efficient innovations, energy consumption was reduced by 46 percent, consequently saving over $250,000 a year on energy invoices. Including subsidies, the return on investment for energy-saving equipment is approximately two and a half years.

Abbotsford Regional Hospital and Cancer Centre
Paul Marmion, Stantec Consulting, Vancouver, British Columbia, Canada, receives first place in the new health care facilities category for the design of the Abbotsford Regional Hospital and Cancer Centre, British Columbia, Canada. The building is a Public Private Partnership (P3) sponsored and operated by Laing Investments Management Services (Canada). The building is owned by the hospital. The Abbotsford Regional Hospital and Cancer Centre (ARHCC) is an acute care hospital built in the province of British Columbia. The hospital is a technologically advanced, 63,000 sq. m., $355 million, 300 bed acute care hospital with nine operating theatres, pediatric and maternity services, inpatient isolation rooms, medical imaging and radiation cancer treatment facilities.

Marmion and his team were responsible for the design of the HVAC, plumbing and fire protection systems of the hospital, helping to successfully complete the fast tracked health care facility on time and on budget. The building incorporates several features to conserve energy, one of which is two 900 ton chillers which are piped in a counter-flow configuration with chilled water temperature reset control to optimize energy efficiency, consuming a maximum of .5 Kw/ton of cooling. There was no incremental capital cost of adding the courter-flow configuration, resulting in an annual energy saving of $3,400, providing in instant payback. Additionally, the water use in the hospital has been reduced by 20.6 percent through the innovative use of dual flush toilets, even in the inpatient rooms, low flow lavatory and kitchen sinks and low flow showers.

The ARHCC is running 56 percent below the Environmental Protection Agency's energy benchmark, using just 153 kBtu/ft2 compared to the typical 350 kBtu/ft2 for a similar building. It has also been determined that the hospital is producing 3140 metric tons of CO2, compared to an equivalent facility which produced 8470 metric tons of CO2. Ultimately, the savings in CO2 emissions is equivalent to taking 1,400 cars off the road.

Thermal Energy Corporation—Thermal Energy Storage
Blake Ellis, P.E., Burns & McDonnell, Kansas City, Mo., receives first place in the new industrial facilities or processes category for Thermal Energy Storage at the Texas Medical Center, Houston, Texas. The owner is Thermal Energy Corporation, Houston, Texas.

In 2007, master planning determined that the cooling load of the 80,000 ton chilled water system that served the Texas Medical Center would double over the next two decades. With that in mind, the owner sought the most cost effective way to provide the increased quantity of chilled water to the campus while maintaining the high level of reliability to serve the critical needs of the medical center.

It was determined that thermal energy storage (TES) in a load leveling scheme was the most cost effective first step to meet the increased chilled water demand. This resulted in the selection of an 8.8 million gallon stratified chilled water storage tank; with a height of 150 ft., it is the tallest stratified chilled water storage tank in the world. Connecting such a tall tank that is open to the atmosphere to a closed chilled water system creates 65 psig of pressure at the bottom of the tank on both the chilled water supply and return lines connected to the tank. A traditional single direction pumping scheme could no longer be utilized and a unique simultaneous dual direction pumping scheme was created.

Conventional wisdom would indicate that a TES system uses more energy than an equivalent non-TES system. However, TES systems use slightly less energy (BTUs or kW-hr) by shifting chilled water production from the middle of the afternoon when the highest wet-bulb temperatures of the day are experienced to the evening when wet-bulb temperatures are lower. The lower wet-bulb temperatures yield lower condenser water temperatures, which allow the chillers to operate more efficiently during the night hours when the tank is charged.

Energy savings during the first year were 7-9 percent in the summer and approximately 5 percent aggregated over the entire year. Energy costs were dramatically reduced due to the real time pricing in Houston, Texas. During the first 23 days of August 2011, the owner saved over $500,000 in electrical energy cost due to very high ($3,000+/MW-hr) electric costs.

Arena Marcel Dutil
Luc Simard, Compressor Systems Control (CSC), Les Coteaux, Quebec, Canada, receives first place in the existing industrial facilities or processes category for the renovation of Arena Marcel-Dutil, St-Gédéon-de-Beauce, Quebec, Canada. The building is owned by the Municipalite St-Gédéon-de-Beauce.

In 2010, the arena was equipped with the first 100 percent CO2 based refrigeration system for ice rinks in the world. The existing R22 chiller was removed, as well as the existing ice mat, and the concrete slab was retrofitted to install the new system. The system uses R744 as both a primary and secondary working fluid, a natural, non-toxic, non-corrosive and highly efficient refrigerant listed A1 in the B52 code. Because there is no secondary fluid, the evaporating temperature of the CO2 can be set at -7 C while keeping the ice sheet at -5 C. The result is an evaporating temperature higher than all other standard ice rink refrigeration systems.

The refrigeration system has a 3kW variable speed CO2 pump that reduces the power needed for circulating the cold fluid by 90 percent compared to secondary fluid installations. For a typical ice rink facility, the savings can be up to 125,000 kWh per year. The arena was also compared to similar projects in the area and was found to have a 25 percent reduction in total energy costs. Also, when comparing the new system with the old chiller using R22, and considering an annual leak rate of 15 percent for the old system, the total greenhouse gas reduction associated with the new 100 percent CO2 refrigeration system is up to 100 tons per year.

ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference in Chicago, IL

2 WAYS TO REGISTER

Internet: www.ashrae.org/lasvegascourses

Phone: Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

CEU/PDH Credits Available!

Full Day Professional Development Seminar

$485/$395 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs

The Commissioning Process in New & Existing Buildings
Saturday, Jan 21 – 8:00 a.m. to 3:00 p.m.

Data Center Energy Efficiency
Saturday, Jan 21 – 8:00 a.m. to 3:00 p.m.

Integrated Building Design
Saturday, Jan 21 – 8:00 a.m. to 3:00 p.m.

Using Standard 90.1 to Meet LEED Requirements
Tuesday, Jan 24 – 9:00 a.m. to 4:00 p.m.

Energy Modeling Best Practices and Applications: HVAC/Thermal
Tuesday, Jan 24 – 9:00 a.m. to 4:00 p.m.

Half Day Short Courses

$159/$119 ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs

Understanding Air-to-Air Energy Recovery Technologies & Applications
Sunday, Jan 22 – 2:00 p.m. to 5:00 p.m.

Understanding & Designing Dedicated Outdoor Air Systems (DOAS)
Sunday, Jan 22 – 2:00 p.m. to 5:00 p.m.

Application of Standard 62.1-2010: Multiple Spaces Equations & Spreadsheet Calculation
Sunday, Jan 22 – 2:00 p.m. to 5:00 p.m.

Basics of High-Performance Building Design
Monday, Jan 23 – 8:30 a.m. to 11:30 a.m.

Complying with Standard 90.1-2010: Envelope/Lighting
Monday, Jan 23 – 8:30 a.m. to 11:30 a.m.

Energy Management in New & Existing Buildings
Monday, Jan 23 – 8:30 a.m. to 11:30 a.m.

Advanced High Performance Building Design
Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.

The Commissioning Process & Guideline 0
Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.

Comply with Standard 90.1-2010: HVAC/Mechanical
Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.

Evaluating the Performance of LEED-Certified Buildings
Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.

Combined Heat & Power
Tuesday, Jan 24 – 9:00 a.m. to 12:00 p.m.

Healthcare Facilities: Best Practice Design
Tuesday, Jan 24 – 9:00 a.m. to 12:00 p.m.

Project Management for Improved IAQ
Tuesday, Jan 24 – 9:00 a.m. to 12:00 p.m.

Healthcare Facilities: Best Practice Applications
Tuesday, Jan 24 – 1:00 p.m. to 4:00 p.m.

Design Toward Net Zero Energy Commercial Buildings
Tuesday, Jan 24 – 1:00 p.m. to 4:00 p.m.

ASHRAE LEARNING INSTITUTE

ASHRAE HVAC Design Essential Workshop

January 11-13, 2012 • ASHRAE Foundation Learning Center • Atlanta, GA

Obtain the skills needed to:

- Improve overall building performance
- Design high-performance HVAC systems
- Effectively collaborate on an integrated design team

ASHRAE has created the HVAC Design Essentials to provide intensive, practical education for designers and others involved in delivery of HVAC services. Developed by industry-leading professionals, this workshop provides participants with training design to accelerate their evolution into effective member on a design, construction or facilities maintenance team.

In addition to gaining in-depth knowledge and understanding, attendees will receive real-world examples of HVAC systems based on the newly renovated ASHRAE Headquarters building. The workshop teaches a systematic approach to guide a design team to a solution that optimally meets the client's expectations.

Visit www.ashrae.org/hvacdesign to register

The Grillroom Chophouse & Winebar

ASHRAE Winter Meeting 2012

Region I Dinner

Chicago is known for Steaks. Join the members of Region I for Dinner at a near by steakhouse for an evening of fun. Please RSVP by January 18th, 2012 to Heather Nowakowski via e-mail heather.nowakowski@roswellpark.org. Clips of the menu are below:

Sunday January 22, 2012

7:00 PM

33 W Monroe St, Chicago, IL 60603 (Btwn S State & Dearborn St)

Seafood

Horseradish Crusted Salmon / White Wine Thyme Broth 22
American Whitefish / Lemon Caper Butter 19
Ahi Tuna / Roasted Eggplant / Red Wine Reduction 29
Laughing Bird Shrimp / DeJoghne Style 26
Rainbow Trout / King Crab Crust / Srirachi Butter 25

Theatre Favorites

Lemon-Rosemary Chicken / Vesuvio Potatoes 19
Herb-Parmesan Crusted Veal Chop / Arugula Salad 39
Baby Back Ribs / 5 Spice Ginger BBQ Sauce half 15 full 22
Apple Bacon Wrapped Meatloaf / Shitake Demi 18
Bucantini Fresca / Cherry Tomatoes / Fresh Basil / Mozzarella 16
Beef Stroganoff / Filet Tips / Parpadelle / Veal Redux 21
Farm Fresh Vegetable Plate / Chef's Creation 18

Sides and Vegetables

Wood Smoked Mushroom & Onions / Veal Demi Butter 8
Steamed or Grilled Asparagus / Lemon Butter 9
Broccolini-Spinach Duo / Olive Oil / Roasted Garlic 8
Fresh Shucked Creamed Corn 9
Crispy Yukon Golds / Parmesan Herbs 8
Michigan Wild Rice / Sun Dried Cranberries 7
Red Flannel Hash / Caramelized Onions / Apple Bacon 9
Buttery Yukon Mashed Potatoes 8
Giant Baked Potato / Sweet Onion Butter 8

Meat and Chops

Single Cut Filet 8oz	29
Double Cut Filet 12oz	39
Bone in Filet Medallions	36
NY Strip 14oz	41
Rib Eye (Tomahawk Bone In) 26oz	49
Porterhouse 22oz	54
Center Cut Sirloin 8oz	27
Butcher Block Pork Chop	24
Australian Lamb T-Bones	31

Additions

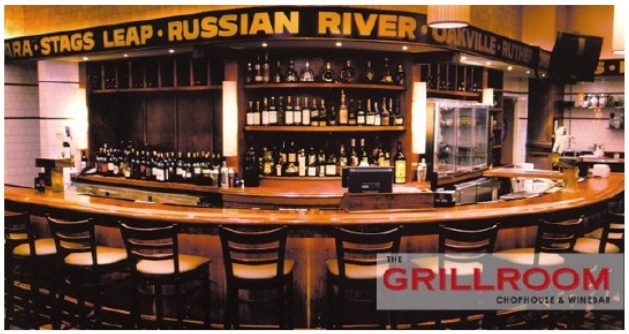
Oscar Style 15
Surf n Turf any Steak with 6oz. Lobster Tail 24
Grilled Jumbo Shrimp Skewer 12
Fried Egg 3
Wood Smoked Mushrooms 4

Sauces

Béarnaise
Roquefort
Peppercorn
Horseradish Cream
Chimichurri
Red Wine Demi
5 Spice BBQ
Add 2 each

Steak Temps

Rare	Red Cool Center
Medium Rare	Red Warm Center
Medium	Pink Hot Center
Medium Well	Hot Slightly Pink Center
Well Done	Cooked Throughout



Dinner is within walking distance of the Palmer House. The bill will be one check per table, please bring cash to cover the semi-annual "dutch treat" dinner.

Reserve your spot TODAY...

Contact: Heather L. Nowakowski

E-mail: heather.nowakowski@roswellpark.org

Officers and Governors 2011—2012

Position	First Name	Last Name	Email	Phone	Fax
Officers					
President	Nicholas	Salomone	ashraebistate@gmail.com		
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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."

ASHRAE Region I Roster

2011-12 Executive Committee

DRC – Director & Regional Chair
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ASHRAE Region I Roster

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ASHRAE, AHR Expo Return to Chicago for 2012 Winter Conference

Registration is open for ASHRAE's 2012 Winter Conference in Chicago where attendees have the chance to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design, as well as participate in technical tours; attend ASHRAE Learning Institute courses; earn professional credits; and obtain ASHRAE certifications. The 2012 Winter Conference takes place Jan. 21-25 at the Palmer House Hilton. The International Air-Conditioning, Heating, Refrigerating Expo®, held in conjunction with the Winter Conference, will run Jan. 23-25. The Expo, www.ahrexpo.com, is held at the McCormick Place. In keeping with ASHRAE's goal of continuing education the Conference offers over 200 Professional Development Hours, as well as Continuing Education Units, which can be applied toward a Professional Engineering license.

The technical program features more than 90 programs and 300 speakers addressing energy modeling applications; integrated design; healthcare, laboratories and data center applications, among others; operations and maintenance; high performance buildings; as well as refrigeration and systems and equipment sessions. Additionally, there is a new "mini-conference" on Installation, Operation & Maintenance of HVAC Systems built within the Technical Program. The O&M mini-conference is scheduled on Jan. 22-23. The full Technical Program, which will be announced later this month, offers the opportunity to earn a year's worth of PDHs, NY PDHs, AIA LUs and LEED AP credits.

The Chicago Virtual Conference is included with a paid Conference registration—comp and single day registration excluded—and includes on-demand access to all speakers' audio presentations synced to their presentations. Attendees and speakers can post comments on the presentations for a two-week period. Those not attending the Chicago Winter Conference in person may register for the Virtual Conference only. Register at www.ashrae.org/chicagovirtual.

Five Professional Development Seminars and 15 Short Courses are offered to help industry professionals stay current on HVAC technology, including how to apply the newest ASHRAE standards. The ASHRAE Learning Institute (ALI) is offering a new half-day short course on the basics of combined heating and power systems, as well as updates to the full-day professional development seminars focusing on Standards 62.1, Ventilation for Acceptable Indoor Air Quality, and 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings. ALI courses are approved for renewal of professional engineer and professional architect licenses, as well as for industry certification programs.

Additionally, ASHRAE offers a special administration of all six certification examinations on Jan. 25: Building Energy Assessment Professional (BEAP), Building Energy Modeling Professional (BEMP), Commissioning Process Management Professional (CPMP), High-Performance Building Design Professional (HBDP), Healthcare Facility Design Professional (HFDP) and Operations & Performance Management Professional (OPMP). ASHRAE's certification program recognizes industry professionals who have mastered knowledge and skills reflecting best practices in certain aspects of building design and operations. More information on each certification can be found at www.ashrae.org/chicagoexams.

ASHRAE Conference technical tours give you a first-hand look at technology developed by members to further the industry. Tours include the North Central College Residential and Recreation Center, Loyola University Information Commons, the University of Chicago Mansueto Library and Rush University Medical Center Central Energy Plant.

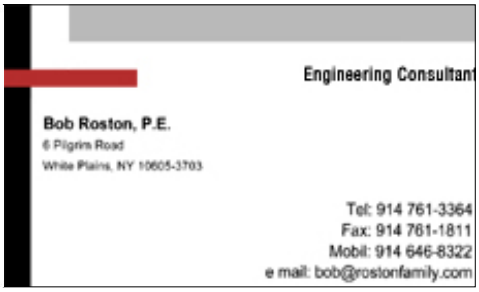
The Winter Conference also includes a program designed for students of the Society. Highlights of the program, held on Sunday, Jan. 22, include speakers, a professional development session and presentations by the recipients of the Student Design Competition and a technical tour of the University of Chicago library. To register and for complete Conference information, visit www.ashrae.org/chicago.

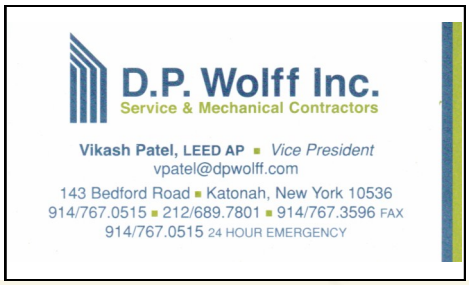
Notice to business card advertisers:

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:

ASHRAE Bi-State Chapter
DL Flow Tech
2421 Route 52
Hopewell Junction, NY 12533





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.

The American Society of Heating, Refrigerating and Air-Conditioning Engineers advances the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world. Membership is open to any person associated with the field including indoor air quality, building design and operation, and environmental control for food processing and industry.

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
January	1/11/2012	Student Activities	Wireless Controls	
February	2/8/2012	Research Promotion		
March	3/14/2012	Membership Promotion		
April	4/11/2012	Sustainability		
May	5/9/2012	Student Activities		
June	6/13/2012	Student Scholarships	Golf Outing	

Residential Electricity Bills Increasing

Households paid a record $1,419 on average for electricity in 2010, the fifth consecutive yearly increase above the inflation rate, a USA TODAY analysis of government data found. Electricity is consuming a greater share of Americans' after-tax income than at any time since 1996, about $1.50 of every $100. Greater electricity use at home and higher prices per kilowatt hour are both driving the higher costs, in roughly equal measure.

Virginia Inmates Receive HVAC, Energy-Efficiency Training

The Virginia Department of Corrections and the Department of Correctional Education are giving prisoners job training in energy efficiency through its Green Heating Ventilation and Air Conditioning Vocational Program. Located at the Indian Creek Correctional Center, the program is designed to provide prisoners with the education and experience they will need to enter careers in energy efficiency when they are released. The state worked with Johnson Controls to develop the program, which includes a training facility, state-of-the-art HVAC equipment and training by experienced instructors. The program will give offenders training in HVAC-related skills and careers such as service mechanics, controls technicians and maintenance specialists. The program is expected to expand to 20 correctional facilities.

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