



Upcoming Events

- **January 12th** -
Computational Fluid Dynamics
in HVAC Applications
- **February 10th** -
ASHRAE President Lynn G.
Bellenger
- **March 9th** -
Tour of LEED Accredited
Building
- **April 13th** -
Effective Room Air Distribution
- **May 11th** -
HVAC Acoustics for Applied
Equipment
- **June 8th** -
Golf Outing

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Meeting Tuesday December 7, 2010

2 PDH Credits Approved

Presentation: Building Energy Labeling

In the main presentation, Daniel Nall, FAIA, PE, LEED® BD&C, BEMP will deliver a presentation on Building Energy Labeling. Next, he will present technical challenges related to calculating the scores and the selected strategies for overcoming these challenges. He will then describe the implementation of the pilot program, so far, and will relate the schedule for complete development and implementation of the program.

Tech Session: Ten Steps to Humidification Design

In the tech session, Kendall Brant of Dri-Steam will discuss review of humidifier types, humidification load calculation, factors impacting absorption distance, chemically treated steam, condensate management, impact of make-up water, factors impacting accuracy, humidification system controls, installation considerations, building construction considerations condensing and traditional hot water boiler fundamentals.

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

Program: 5:30 - 6:00 PM Attitude Adjustment Time
6:00 Dinner
6:30 - 7:00 PM Tech Session
7:00 - 7:15 PM Coffee
7:15 - 9:00 PM Presentation

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.

Please make reservations by contacting either:

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Enzo Carlesimo — ecarlesimo@collado-eng.com 914-332-7658

President's Message

By Enzo A. Carlesimo

On behalf of the entire Chapter, I would like to extend our gratitude to Will Hayes and Larry Sunshine for their insightful presentations last month. Judging by the strong turnout, the two topics that they presented grabbed our members' interests and I am certain they were not disappointed. Our upcoming meeting on December 7th should make for yet another interesting and informative evening. We will be having our Tech Session on humidification which I am really looking forward to. Humidification has always been a grey subject for HVAC engineers; we are never sure how much is enough and how do we maintain a certain level of humidity when required. Hopefully, our presenter will be able to shed some light on these and other issues pertaining to humidification. In addition, we will be having our main presentation on building energy labeling, a breakthrough program designed to measure both the energy a building is designed to use and the energy actually being consumed. This tool will become invaluable in an industry that is moving rapidly towards green and sustainable design. I am looking forward to learn more about building energy labeling on the 7th, and I hope that you all do too! On behalf of my fellow officers and the Board of Governors, I would like to wish our Bi-State Chapter members a happy and joyous holiday season.



Enzo A. Carlesimo
Bi-State Chapter President

Historical Notes — Bob Roston, Bistate Historian

“At the opening of one of their theaters the engineer undertook to cool the building. The outside temperature was 85°F (29°C). The outside air was taken into a fan through a large galvanized iron duct. Into this duct they placed a number of wire baskets filled with crushed ice. The baskets were so arranged that the air entering the fan had to pass over or through the ice. The engineer succeeded in reducing the temperature of the auditorium to 70°F (21°C) but it kept four ice men hauling ice to the building as fast as they could go.”

— Theodore Weinshank, describing a cooling method at an Indianapolis theater at a 1907 ASHVE “Topical Discussion” on air washers and air cooling.

Code Officials Approve 30% Efficiency Improvements to 2012 IECC

Revisions to the commercial section of the 2012 International Energy Conservation Code (IECC) will lead to buildings that use 30% less energy than those built to current standards. The revisions were approved almost unanimously Sunday by city and state building officials. The energy savings are derived from a series of proposals that address measures such as cooling, lighting, quality assurance and renewable energy standards. Specific technologies targeted include daylighting controls, continuous air barriers and economizers. ASHRAE Standard 90.1-2007 is referenced by the current version of the IECC. The 2012 IECC will reference 90.1-2010.

Walmart to Use Thin Film Solar Technology to Power Stores

Walmart will use light, low-cost thin film solar technology to help meet the energy needs of new stores. The company plans to add solar generating systems to 20 to 30 sites in California and Arizona, and the majority of these locations will feature the new technology. The thin solar cells are expected to supply up to 20% to 30% of the total energy needs for each location, producing up to 22.5 million kWh per year. Thin film solar panels look similar to the traditional crystalline panels, but require fewer raw materials to manufacture, resulting in a smaller environmental impact over their life cycles.

CRRC Adds Solar Reflectance Index Values to Rated Product Directory

The Cool Roof Rating Council (CRRC) has added the Solar Reflectance Index (SRI) to its Rated Product Directory. This enables users to reference the metric to gauge the energy performance of roofing products. SRI measures a roof's ability to reject solar heat, and reduce the "urban heat island effect." CRRC has maintained an independent rating system for the radiative values of roofing products for more than 10 years.

Committee Reports

Programs

Nick Salomone, Chairman

The December meeting will feature Building Energy Labeling by Daniel Nall, FAIA, PE, LEED® BD&C, BEMP as the main presentation. The presentation will address technical challenges related to calculating the scores and the selected strategies for overcoming these challenges. Daniel Nall will then describe the implementation of the pilot program, so far, and will relate the schedule for complete development and implementation of the program. In the tech session, Kendall Brant of Dri-Steam will discuss ten steps to humidification design.

Membership Promotion

Erica L. Ross, Chairman

The ASHRAE year is well under way. As the holiday season is upon us, we'd like to remind our members to invite guests from any upcoming office holiday functions. The holidays are a great time to mingle with friends and colleagues; perhaps we can try to encourage some growth within the Bi-State Chapter, too. Additionally, please let us not forget what an integral part ASHRAE is to those looking for careers and networking. Keep your eyes and ears open and extend the meeting invite to those who may be able to benefit. Have a happy and healthy holiday!

ASHRAE Winter Conference to be Held in Las Vegas

Las Vegas, Nev. continues to build upon its reputation as a vibrant showcase for the extraordinary by offering the grandest hotels, the biggest stars in entertainment and, of course, the brightest lights. It's no wonder that the world's biggest HVAC Expo and the largest membership-based HVAC&R engineering society have chosen the city as the site of the ASHRAE 2011 Winter Conference and AHR Expo. The extravagant setting of Las Vegas serves as a unique contrast to ASHRAE's Winter Conference theme of A Safe Bet: Zero-Energy Design. It is sure to highlight the importance of finding the balance in design. The 2011 Winter Conference takes place January 29-February 2 at the Las Vegas Hilton. The International Air-Conditioning, Heating, Refrigerating Expo®, held in conjunction with the Winter Conference, will run January 31-February 2. The Expo is held at the Las Vegas Convention Center, a short distance from the Hilton, the Conference headquarters hotel.

In keeping with ASHRAE's goal of continuing education the Conference offers over 200 Professional Development Credits, 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 the efficient use of energy in new and existing buildings, refrigeration updates, applications including data centers, laboratories, healthcare facilities, the real cost of zero-energy design and other topics related to design, standards, codes and professional skills. Nearly all of the technical program sessions will be approved for NY PDHs and by USGBC for GBCI CE hours for LEED professionals. The Las Vegas Virtual Conference, included with paid attendees' registrations, will be available to non-attendees.

Six Professional Development Seminars and 14 Short Courses are offered to help industry professionals stay up-to-date on industry trends. ALI offers a new course on building energy modeling that focuses on HVAC&R systems and updates to courses covering Standards 62.1 and 90.1 to reflect changes in the 2010 versions of these standards from previous versions.

Additionally, ASHRAE continues to listen to the market and launches a sixth certification program in conjunction with the 2011 Winter Conference. This new program targets Energy Assessors/Energy Auditors and is appropriate for those individuals who perform energy assessments or audits for commercial, industrial or residential buildings. More information can be found at www.ashrae.org/certification.

This winter's technical tours spotlight how technology developed by ASHRAE members is practically applied to buildings and include the central plant at Planet Hollywood and MGM Center and Springs Preserve. Those who take part in the early-bird registration before December 31 have the opportunity to save up to \$195. Complete information is available at www.ashrae.org/lasvegas.

Officers and Governors 2010—2011

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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 2010-11 Executive Committee

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HELP WANTED

Employment ads may be submitted for inclusion in the following month's issue of **The Exchanger** as follows:

1. \$100.00 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.

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



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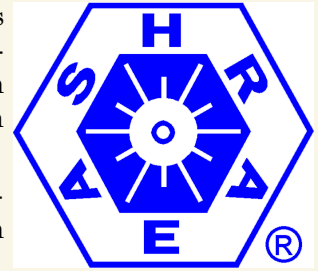
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The American Society of Heating, Refrigerating and Air-Conditioning Engineers advances the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world. Membership is open to any person 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
December	12/7/2010	Sustainability	Building Energy Labeling	
January	1/12/2011	Student Activities	Computational Fluid Dynamics in HVAC Applications	
February	2/10/2011	Research Promotion	Visit by ASHRAE President Lynn G. Bellenger	
March	3/9/2011	Membership Promotion	Tour of LEED Accredited Building	
April	4/13/2011	Sustainability	Effective Room Air Distribution	
May	5/11/2011	Student Activities	HVAC Acoustics for Applied Equipment	Variable Refrigerant Flow
June	6/8/2011	Student Scholarships	Golf Outing	

GSA to Require LEED Gold for All New Federal Buildings

The U.S. General Services Administration is requiring LEED Gold certification as a minimum in all new federal building construction and substantial renovation projects. As the U.S. government's workplace solutions provider and asset manager, the GSA maintains more than 361 million ft² (33 million m²) of space in 9,600 federally owned and leased facilities. For projects funded prior to FY 2010 that are in design, GSA is requiring that LEED Gold be incorporated where possible, with full implementation by the end of 2010.

'Dry-Shipping' of R-22 Equipment Continues Despite Ban

HVAC&R manufacturers are continuing to produce and sell equipment that uses R-22 refrigerant, despite a 2009 U.S. Environmental Protection Agency (EPA) mandate that such manufacture should cease on Jan. 1, 2010. A report in *The Air Conditioning, Heating and Refrigeration NEWS* says that companies are skirting the ban by "dry shipping" the equipment without refrigerant installed. Industry experts say that tens of thousands of "dry" units have been shipped. One company representative said "Millions will be sold." The relatively cheap price of and steady demand for R-22 refrigerant and related equipment and loopholes in the language of the EPA order are cited as motivations.

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