



Upcoming Events

- **February 10th** -
ASHRAE Society 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 Wednesday January 19, 2011

(Rescheduled from Jan. 12 due to inclement weather)

1 PDH Credit Approved

Presentation: Computational Fluid Dynamics

In the main presentation, Dr. Hsin-Hua Tsuei of CAE Associates, Inc., will deliver a presentation on the Computational Fluid Dynamics. An overview of CFD technology will be presented, with a discussion of the methodology used to perform a CFD analysis, basic concepts, and interpretation of CFD results. An overview will be given of how to examine and quantify CFD results in various contour and line plots, and to assess the potential deviation between CFD and test data.

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

Program: 5:30 - 6:00 PM Attitude Adjustment Time
6:00 Dinner
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 Kendall Brant and Daniel Nall 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 January 12th should make for yet another interesting and informative evening. We will be having our Tech Session on chilled beams which I am really looking forward to. While relatively new in North America, chilled beam air conditioning systems are a proven "green" solution and very popular in Europe, Australia and other parts of the world. Hopefully, our presenter will be able to show us what we have been missing out by sharing some insight on this cutting edge technology. In addition, we will be having our Main Presentation on computational fluid dynamics (CFD), a fluid mechanics modeling technique that can be used to simulate the temperature distribution within a space so that air stratification and overcooling can be prevented. 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 chilled beams and CFD on the 12th, 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 prosperous new year.



Enzo A. Carlesimo
Bi-State Chapter President

ASHRAE: Standard 189.1 Adopted as Part of Army Sustainability Policy

ASHRAE leaders recently met with U.S. Army officials regarding a new sustainable design and development policy that incorporates requirements of the green building standard developed by the Society, USGBC and IES.

The U.S. Army has made it a matter of policy to promote sustainability and improve green building standards for its facilities. On Oct. 27, 2010, Katherine Hammack, assistant secretary of the Army for installations, energy and the environment (IE&E), issued a policy memorandum that incorporates ANSI/ASHRAE/USGBC/IES Standard 189.1-2009, *Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings*.

The Army's policy sets a new approach to the design and construction of efficient military construction projects and major renovations by using Standard 189.1 as the baseline. The policy requires that facility construction projects follow specified requirements and guidance in the standard. These requirements address siting, energy efficiency, cool roofs, metering, storm water management and indoor and outdoor water consumption.

"After nearly four years of peer review and collaboration with various members of industry, we are extremely pleased that the Army has taken up the initiative to incorporate the standard into its day-to-day practices," Lynn G. Bellenger, ASHRAE president, said. "The Army is clearly committed to taking the lead within the military to incorporate innovative practices proven by the private sector. Their willingness to adopt this standard speaks volumes about its value and efficacy."

The net effect of the Army's sustainable design initiative is likely to be immense. The policy applies to all construction and renovation of new buildings and structures in the U.S. territories, permanent overseas Active Army installations, Army Reserve Centers, Army National Guard facilities and Armed Forces Reserve Centers. The footprint of the existing Army buildings and structures worldwide covers more than 954 million square feet.

"We are committed to sustainable design and development but our commitment extends far beyond construction and renovation savings," Hammack said. "We are on a path to integrating energy and sustainability considerations into our fundamental way of thinking as we progress toward net-zero energy, water and waste in buildings and installations."

ASHRAE leadership and Army officials discussed how the Society could continue development and stringency of Standard 189.1 to provide guidance toward net-zero buildings. Additionally discussed were how ASHRAE can help fulfill the Army's training needs regarding the standard and how 189.1 fits in to Army's long-term plans to make their facilities more sustainable.

Standard 189.1, published earlier this year by ASHRAE in conjunction with the Illuminating Engineering Society of North America (IES) and the U.S. Green Building Council (USGBC), provides a long-needed green building foundation for those who strive to design, build and operate green buildings.

Standard 189.1 also serves as jurisdictional compliance option to the International Green Construction Code authored by the International Code Council, ASTM International and the American Institute of Architects.

Committee Reports

Programs

Nick Salomone, Chairman

The January meeting will feature Computational Fluid Dynamics by Dr. Hsin-Hua Tsuei of CAE Associates, Inc. as the main presentation. An overview of CFD technology will be presented, with a discussion of the methodology used to perform a CFD analysis, basic concepts, and interpretation of CFD results.

Membership Promotion

Erica L. Ross, Chairman

At this point, we'd like to thank everyone for their continued commitment to the Bi-State Chapter. This meeting marks the halfway point for the 2010-2011 season. As the months progress, please keep in mind that this is a great way to connect with colleagues and professionals and to share common experiences. Please welcome your colleagues to our meetings and invite them to sign up for our newsletters on both facebook (<http://www.facebook.com/BISTATE>) and our website (<http://www.ashraebistate.org>). Thanks for a great 2010 and we look forward to a prosperous 2011 for all of our members and their families.

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:

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 DL Flow Tech
 2421 Route 52
 Hopewell Junction, NY 12533



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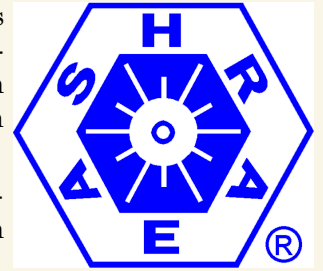
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The American Society of Heating, Refrigerating and Air-Conditioning Engineers advances the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world. Membership is open to any person 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
January	1/19/2011	Membership Promotion	Computational Fluid Dynamics in HVAC Applications	
February	2/10/2011	Membership Promotion	Lynn G. Bellenger ASHRAE Society President	Air Filtration
March	3/9/2011	Membership Promotion	Tour of LEED Accredited Building (NYPA White Plains)	
April	4/13/2011	Sustainability	Effective Room Air Distribution	
May	5/11/2011	Student Activities	HVAC Acoustics for Applied Equipment	Variable Refrigerant Flow Fundamentals
June	6/8/2011	Membership Promotion	Golf Outing	

Synthetic Ice an Inexpensive Alternative

A small community in northeastern Alberta has found a way to cheaply extend hockey season after winter for its 1,007 residents. At spring thaw, the community is accessible only by boat and is isolated from the rest of the country and the national sport. Earlier this month the town opened what the manufacturers call the first full-size synthetic hockey rink in North America. The synthetic rink cost \$559,000 to install and requires a fraction of the \$300,000 annual maintenance of the nearly \$2 million natural ice rink that was to replace an older, damaged building. The synthetic surface consists of plastic interlocking panels with polymer chemical lubricant additives

Cost of Solar Photovoltaic Systems Declining

Average installed costs of solar photovoltaic (PV) power systems in the U.S. declined sharply in 2010, according to researchers at the U.S. Department of Energy's Lawrence Berkeley National Laboratory. According to the study, solar costs were unchanged from 2008 to 2009, before beginning a steep decline due to a drop in wholesale module prices that made its way to customers in 2010. Modules typically represent about half the installed cost of a PV system. The study examined 78,000 grid-connected PV systems installed between 1998 and 2009 in 16 states. It found that average installed costs declined by 30% from 1998 to 2009. Costs in the first six to ten months of 2010 in the two largest solar markets dropped an additional 14% and 16%, respectively, compared to 2009.

European Union Mandates 20% Energy Efficiency Increase by 2020

The European Parliament (EP), the legislative branch of the European Union, has adopted a binding agreement mandating a 20% increase in energy efficiency by 2020, to be achieved by implementing policies in all economic sectors. The resolution also urges the proper implementation of existing energy efficiency legislation and using the public sector to set an example. The EP also wants the European Commission, the executive branch, to include an assessment of how existing legislation, like sustainable design and energy labeling, is being implemented in the Commission's Energy Efficiency Action Plan.

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