



Upcoming Events

- **December 7th** -
Building Energy Labeling
- **January 12th** -
Computational Fluid Dynamics
in HVAC Applications
- **February 10th** -
ASHRAE President Lynn G.
Bellenger
- **March 9th** -
Save the date
- **April 13th** -
Save the date
- **May 11th** -
Save the date
- **June 8th** -
Golf Outing

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Meeting Wednesday November 10, 2010

2 PDH Credits Approved

Presentation: Bipolar Ionization

In the main presentation, Larry Sunshine of Plasma Air will discuss Bipolar Ionization. He will focus on how it can be used to improve air quality inside buildings and how it can save money. The presentation will include a discussion on how to employ the systems, how they are sized and selected, where they should be installed, and how it affects the over building performance.

Tech Session: Hot Water Boilers

In the tech session, Will Hayes of Miller Proctor Nicholas will discuss 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:

Nicholas Salomone — nsalomone@olace.com 914-919-3140

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 Bob Barrett and John Bender for their insightful presentations last month. We were fortunate enough to have Bob return for last month's meeting where he gave a very comprehensive and insightful presentation on Centrifugal Pump Fundamentals. It turned out to be a great complement to John Bender's "Geothermal Heat Pump Systems - The Good, The Bad and The Ugly" presentation. It was great that John was able to mix in real-world scenarios to describe the critical "do's and don'ts" for geothermal systems, rather than just relying on technical jargon. Judging by the strong turnout, these were two topics that grabbed our members' interests and I am certain they were not disappointed. The upcoming meeting on November 10th should make for yet another interesting and informative evening. We will be having our main presentation on Bi-Polar Ionization, a cutting-edge air filtration system that does wonders for indoor air quality (IAQ) and also reduces an air conditioning system's energy costs. Personally, I do not know much about this air purification system so I am looking forward to learning more about it on the 10th, and I hope that you all do too!



Enzo A. Carlesimo
Bi-State Chapter President

ASHRAE, IES Join Forces on Residential Energy Standard

The team that brought you the national standard for energy efficiency in commercial buildings has joined together to help homes attain higher levels of energy performance.

ASHRAE and the Illuminating Engineering Society of North America (IES) are working together to strengthen requirements in ANSI/ASHRAE Standard 90.2, *Energy Efficient Design of Low-Rise Residential Buildings*. Previously, the standard was developed only by ASHRAE and was first published in 1993.

Standard 90.2 provides minimum requirements for the energy-efficient design of residential buildings. Last year, ASHRAE's Board of Directors recommended to the Standard 90.2 committee that it consider a goal of writing the standard so that it is 30 percent more efficient than the 2004 version, including both a prescriptive and a performance path.

The standard would target home builders and code officials in an easy-to-understand format that is simple to use. The committee plans to have an advisory public review of the standard later this year to determine whether proposed changes are meeting the needs of the audience.

"ASHRAE is honored and proud to have IES as a co-sponsor of Standard 90.2," ASHRAE President Lynn G. Bellenger said. "The partnership between ASHRAE and IES originated 35 years ago when we joined together to create the first building energy conservation standard, ANSI/ASHRAE/IES Standard 90-1975, *Energy Standard for Buildings Except Low-Rise Residential Buildings*. The partnership has flourished as we've collaborated on updates to that standard and created Advanced Energy Design Guides. Now, as we focus on the residential market, whose 107 million housing units consume 22 percent of the primary energy in the U.S., we have the opportunity once again to define the actions needed to make energy conservation our 'first fuel.' By identifying ways for this major market to reduce energy use and costs, we serve the public and increase our energy security."

"The opportunity to be a cosponsor with ASHRAE on this standard continues the long standing and successful partnership on a trilogy of standards addressing energy conservation – Standard 90.1, *Energy Standard for Buildings Except Low Rise Residential Buildings*, Standard 100, *Energy Conservation in Existing Buildings*, and now 90.2 dealing with efficient design of low-rise residential buildings," Rita M. Harrold, IES director of technology, said. "IES will contribute expertise in providing ways to achieve energy savings through lighting in this important market segment that consumes approximately 212 billion kWh per year, or approximately 15 percent of residential electricity consumption. The challenge here will be to achieve savings while still providing a quality environment to satisfy occupant needs."

MIT Developing Paper-Thin Solar Cells

The Massachusetts Institute of Technology has presented early results of research to produce paper-thin solar cells, which could be used as window covers. The university showed prototypes of paper solar cells able to generate enough current to light a small LED display. It says a commercial solar paper device could be available in five years. The cells could potentially be installed on blinds and shades or perhaps on the cover of laptop computers. Paper cells also could be laminated into strips that could be attached quickly onto roofs by untrained people. The cells are made on ordinary tracing paper.

Committee Reports

Programs

Nick Salomone, Chairman

The November meeting will feature Bipolar Ionization by Larry Sunshine of Plasma Air as the main presentation. The focus will be on how it can be used to improve air quality inside buildings and how it can save money. The presentation will include a discussion on how to employ the systems, how they are sized and selected, where they should be installed, and how it affects the over building performance. In the tech session, Will Hayes of Miller Proctor Nicholas will discuss condensing and traditional hot water boiler fundamentals.

Membership Promotion

Erica L. Ross, Chairman

The first two months of the new 2010/2011 season are behind us. We only have a few more months to try and encourage new member. As always we try to contact delinquents and encourage new members. The newest form of communication is Facebook. While an email can be considered invasive or annoying, posting status updates is a great way to get attention. Please join the ASHRAE Bi-State group and be sure to send the contact info to all of your friends! We'd like to encourage all of our members to bring guest to the meetings, so please spread the word.

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

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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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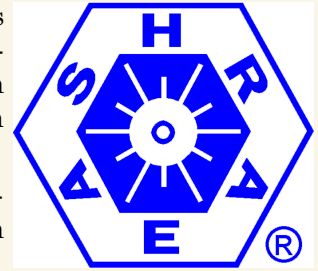
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The American Society of Heating, Refrigerating and Air-Conditioning Engineers advances the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world. Membership is open to any person 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
November	11/10/2010	Membership Promotion	Bi-Polar Ionization	Hot Water Boilers
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		
April	4/13/2011	Sustainability		
May	5/11/2011	Student Activities		
June	6/8/2011	Student Scholarships	Golf Outing	

Standard 90.1-2007 Available as Free Download

In order to move the industry forward toward more energy efficient design, ASHRAE is making it easier than ever before to access its flagship energy standard, 90.1, available as a free download for a limited time.

Through a funding contract with the Department of Energy, copies of the I-P edition of ANSI/ASHRAE/IES Standard 90.1-2007, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, are being offered as a free downloadable PDF at www.ashrae.org/standard901-2007-free.

“Standard 90.1-2007 is widely used throughout the design community, and the download version makes it available to users at their own computers for ready and easy access,” ASHRAE President Lynn G. Bellenger said. “Making the standard available for free ensures that it penetrates the marketplace and reaches owners, contractors and design teams. We appreciate the support of the Department of Energy in reaching a wider audience and extending access to our flagship energy conservation standard.”

Since being developed in response to the energy crisis in the 1970s, Standard 90.1 has become the basis for building codes, and the standard for building design and construction throughout the United States.

As buildings consume approximately 40 percent of the primary energy in the United States, the standard is an indispensable reference for engineers and other professionals involved in the design of buildings and building systems.

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