

Upcoming Events

- **November 10th** -
Bi-Polar Ionization
- **December 7th** -
Building Energy Labeling
- **January 12th** -
*Computational Fluid Dynamics
in HVAC Applications*
- **February 10th** -
Save the date
- **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 October 13, 2010

2 PDH Credits Approved

Presentation: Geothermal Systems—The Good, The Bad & The Ugly

In the main presentation, John Bender of MWSK will present information about different geothermal systems. The focus will be on fundamental differences between successful and unsuccessful projects throughout the country. The course material will use graphs, piping schematics, and sample ground loop selections to demonstrate how one system can work well and another can underperform or fail.

Tech Session: Centrifugal Pump Fundamentals

Bob Barrett, CEM, LEED AP of Wallace Eannace Associates, an engineering sales office representing manufacturers of various hydronic equipment, will give a power point presentation on Pump Fundamentals. While the focus is on key elements of pump design and operation; proper system design incorporating these key elements of pump design and operation are also discussed.

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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President's Message

By Enzo A. Carlesimo

Last month we were honored to have Spencer Morasch, Director of the Region I Executive Committee, attend our first Chapter meeting of the 2010-2011 season. Our Chapter is one of the 15 chapters in the Northeast that belong to ASHRAE's Region I. Spencer and his regional vice chairs (RVC's) oversee all of the activities that the Region I chapters partake in, ranging from CTTC to Student Activities, and they are our liaison to Society. After speaking with him at the conclusion of our last meeting, I am proud to report that Spencer was very pleased with how our Chapter meetings were being conducted, and was also impressed with the turnout that we had. On behalf of the entire Chapter, I would like to extend our gratitude to Bob Barrett and John Ruhnke for their insightful presentations last month. We are fortunate enough to have Bob return for this month's meeting where he will give a presentation on Centrifugal Pump Fundamentals. I am confident that Bob's presentation will go hand in hand with the Geothermal Heat Pump Systems seminar, which will be presented by John Bender, P.E. of MWSK Equipment Sales. It should be another interesting and informative evening coming up on October 13th, and I look forward to seeing you all there.



Enzo A. Carlesimo
Bi-State Chapter President

Historical Notes — Bob Roston, Bistate Historian

In the early 1900s, Madison Cooper, later a charter member of the American Society of Refrigerating Engineers and resident of Sanford's Corner, New York, successfully petitioned to have the town's name changed to Calcium. It was a somewhat extreme move born out of the frustration of having his mail frequently sent by mistake to Stanfordsille, N.Y. Cooper chose the name due to his work in cold storage, where he frequently used calcium chloride brine. Also on the plus side regarding his postal problems: No other town in the country was named Calcium!

—From *Chemical and Engineering News*, "Our town is elemental" January 18, 2010 P. 40.

Solar Power Returning to the White House

Solar panels and a solar hot water heater will soon be installed at the White House, Energy Secretary Steven Chu announced at the 2010 GreenGov Symposium in Washington, accompanied by Nancy Sutley, chairwoman of the Council of Environmental Quality. By installing the solar panels on the White House, Sutley said that President Barack Obama is underscoring a commitment to "lead, and the promise and importance of renewable energy in the United States."

The solar panel system, which should be installed by next spring, will convert sunlight directly to electricity, while the solar hot water heater will have a solar collector facing the sun to heat water for use in the White House residence. The Energy Department said a competitive procurement process will be used to select the company that will make the installations.

This is not the first time solar energy has been tapped at the White House. Former President Jimmy Carter had solar panels installed on the roof of the White House residence during his term. They were removed during the Reagan administration. Former President George W. Bush also used solar energy to help power a maintenance building on the White House grounds, and to assist in heating the swimming pool there.

HVAC ASHRAE 62.1 for the Apple iPhone/iPod touch/iPad

Calculating ventilation rates just became a little easier with a new iPhone application designed specifically for *ASHRAE Standard 62.1-2007, Ventilation for Acceptable Indoor Air Quality*. An application, or app, is a third-party software program developed for Apple's iPhone, iPod touch and iPad. The app, called ASHRAE 62.1, provides functionality similar to the interactive 62MZCalc spreadsheets of Standard 62.1, which makes for convenient calculations while in the field.

"As a leader in the advancement of the latest HVAC&R technology, it's only right that we utilize the latest smart phone technology," Jim Fields, volunteer head of ASHRAE's publishing activities, said. "This new application will ensure that engineers in the field have instant access to the most accurate information without having to return to their office to perform calculations."

The ASHRAE 62.1 app can also be used to determine 62.1 compliance of simple ventilation systems (single zone, 100 percent outdoor-air and changeover-bypass VAV) as well as more complex ventilation systems (single-path, multiple zone recirculating) and can operate in both IP and metric units. Other benefits include the ability to store and access multiple projects within the app and also send email inputs and results for use in a spreadsheet at a later time. The ASHRAE 62.1 application can be purchased for \$19.99 through Apple's online iPhone App Store.

Committee Reports

Programs Nick Salomone, Chairman	Student Activities Carmen B. Yellen	Membership Promotion Erica L. Ross, Chairman
<p>The October meeting will feature geothermal systems by John Bender of MWSK as the main presentation. The focus will be on fundamental differences between successful and unsuccessful projects throughout the country. The Tech Session by Bob Barrett, CEM, LEED AP of Wallace Eannace Associates will address centrifugal pump fundamentals.</p>	<p>Scholarship deadlines will be here in no time! We encourage all students interested in engineering or currently enrolled in an ABET accredited program to apply today!</p> <p>High School Senior Scholarships Undergraduate Engineering Scholarships University-Specific Scholarships Engineering Technology Scholarships</p> <p>Look for the Local Bi-State Chapter Scholarships application on our Facebook & LinkedIn pages regularly for updates. To be eligible you must have a student chapter in your school. Don't have a student chapter established? We can help! Get involved, get experience leading, and compete for internships, scholarships and more.</p>	<p>Over the last four weeks we have seen a bit of growth on the Facebook page. There are updates sent out frequently, and its starting to get the attention of folks who were previously not followers. As one of our MBO's – we hope the number of followers doubles from 73 to 150. Stay posted! Additionally, we have contacted Fairfield University. We hope to offer the students there the same courtesies that Manhattan College has been receiving. There are numerous and exciting presentations on the docket for this year. Now that they are posted to the website we can encourage visitors to join and to ensure that our members have ample notice about what's coming up!</p>

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.

ASHRAE Design Competition Gives Students Hands-On Experience in Practical Design

Engineering practices such as BIM, geothermal and combined cooling, heating and power are highlighted in the winning entries in the 2010 ASHRAE Student Design Competition. This year's Student Design Competition featured a mock design of the Ginsburg Tower at Florida Hospital in Orlando, Fla. This structure, the tallest hospital building in the state, is a 15-story patient tower that contains the Florida Hospital Cardiovascular Institute, 440 patient beds and one of the largest emergency departments in the country. Among the 31 entries from around the world, three in particular stood out as first place winners in the three categories that the Competition offers.

First place in HVAC System Design is awarded to Nathaniel Boyd, Michael Angell, Justin Wiese, Edward Gillett and Trong Duc Nguyen, of University of Central Florida, Orlando, Fla. Their faculty advisor is Marcel Ilie, Ph.D. After constructing a complete building information model (BIM), the students chose a constant volume air-handling unit as the primary air source and latent load control, and onsite combined cooling, heating and power (CCHP) plant based on a bank of micro-turbines fueled by natural gas. These HVAC systems eliminate nosocomial infections via proper ventilation directional control and would provide uninterrupted HVAC service to hospital occupants, even during natural disasters, as well as reduction of environmental and economic impact of the HVAC design.

First place in HVAC System Selection is awarded to Matt Kolins, Joel Wheeler, Nicole Vogt, Jared Palan, Todd Kuno and Zac Buckmiller, of Kansas State University, Manhattan, Kan. Their faculty advisors are Fred Hasler, P.E. and Julia Keen, P.E. The students selected a combination of air handling units with patient room heat pumps, chillers and cooling towers and shell-and-tube heat exchangers. Additionally a geothermal loop in Lake Estelle, adjacent to the hospital, acts as a heat sink. Not only is the system environmentally conscious, but also has the best return on investment.

First place in Integrated Sustainable Building Design is awarded to Ryland Phelps, Carolyn Lamb and Amy Rose Keyzer, of Lawrence Technological University, Southfield, Mich. Their advisors are Daniel Faoro and Janice Means. The students set out to design a sustainable and energy efficient building without sacrificing visual appeal, while responding to climate conditions and surrounding buildings and forms. They were able to achieve this by using water reducing fixtures in all bathrooms, supplying alternative energy through photovoltaic panels and architectural fabric, using geothermal wells and evacuated tubes to reduce loads on mechanical equipment and implementing a daylighting system to reduce lighting loads and bring daylight into the building.

The first place teams will be given 10-15 minutes to present their projects at the 2011 Winter Conference in Las Vegas, Nev., Jan 29-Feb. 2.

EPA Helps Launch Global Methane Initiative to Cut Greenhouse Gases

The U.S. Environmental Protection Agency (EPA) and Mexico's Ministry of Environment along with thirty-six other countries, the European Commission, the Asian Development Bank and the Inter-American Development Bank launched a new Global Methane Initiative that urges stronger international action to address near-term climate change. The initiative expands on existing global efforts to reduce emissions of methane, a potent greenhouse gas that contributes to climate change, while providing significant clean energy, human health, environmental and economic benefits. EPA Assistant Administrator for the Office of Air and Radiation, Gina McCarthy, represented the agency at the meetings that took place recently in Mexico City.

"Methane emissions pollute the air we breathe and contribute to the global challenge of climate change, and leaving them untapped is a major missed opportunity. Through this growing partnership we can convert this harmful pollutant into clean energy and create new economic prospects for people around the world," EPA Administrator Lisa P. Jackson said. "I'm looking forward to working with our global partners to reduce pollution, strengthen clean energy innovations, and make our planet healthier, stronger and more prosperous for future generations."

The United States is pledging \$50 million over the next five years to the Global Methane Initiative and is seeking similar pledges from other developed countries, to support implementing methane emissions reduction projects and technologies. EPA estimates that an enhanced global effort to reduce methane emissions could achieve reductions of more than 1.5 billion metric tons of carbon dioxide equivalent – about the same as the annual emissions from more than 280 million cars.

The initiative will build on the existing structure and success of the Methane to Markets Partnership, an international partnership launched in 2004, while enhancing and expanding its efforts and encouraging new financial commitments from developed country partners. All the representatives at the meeting affirmed that the work of the initiative will continue to ensure international cooperation in a manner that is supportive of the United Nations Framework Convention on Climate Change.

The Methane to Markets Partnership is one of the most effective international efforts to reduce greenhouse gas emissions, growing from 14 to 38 country partners, representing approximately 70 percent of global methane emissions today. More than 1,000 public and private sector organizations are members of the project network and have helped the program to leverage nearly \$480 million in investment from private companies and financial institutions.

More information about the Global Methane Initiative: <http://www.methanetomarkets.org/gmi>

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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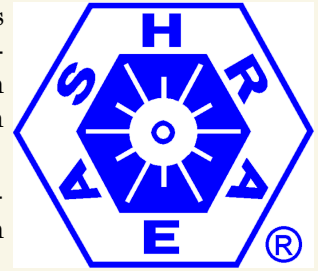
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The American Society of Heating, Refrigerating and Air-Conditioning Engineers advances the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world. Membership is open to any person 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
October	10/13/2010	Research Promotion	Geothermal Systems	Centrifugal Pump Fundamentals
November	11/10/2010	Membership Promotion	Bi-Polar Ionization	Heat Exchanger Fundamentals
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		
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	

Growth in Green Building Use Expected to Drive Use of BIM Tools, Says Report

The growth of the green building market will drive adoption of Building Information Modeling (BIM) software, according to the report, *Green BIM: How Building Information Modeling is Contributing to Green Design and Construction*, released by McGraw-Hill Construction. Produced in collaboration with the U.S. Green Building Council (USGBC), the Mechanical Contractors Association of America (MCAA), Autodesk, and 13 other prominent industry organizations, the report provides new insights on the convergence of two important construction industry trends: green building and BIM, known simply as “Green BIM.”

“Green building is already transforming design and construction in the United States, and BIM has the potential to increase innovation—and design and construction efficiency,” said Harvey Bernstein, vice president, global thought leadership and business development, McGraw-Hill Construction. “Therefore, the intersection of BIM tool use with sustainability goals is a powerful practice that can be truly transformative in increasing industry productivity.”

The report captures perspectives on the future of Green BIM from a wide range of experts, as well as case studies that demonstrate Green BIM's contributions to achieving sustainable outcomes. According to the report, as green building becomes a larger share of construction, the benefits provided by BIM will also be more widely recognized, and the use of BIM as a whole will increase.

To download the free report, visit http://construction.com/market_research/FreeReport/GreenBIM/.

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