



Upcoming Events

- **January 11th** -
Wireless Controls
- **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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Meeting Wednesday December 14, 2011

1 PDH Credit Approved

Presentation: Energy Saving Control Strategies for VAV Systems

Participants will watch a DVD from the Trane Company about Energy Saving Control Strategies for VAV 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

President's Message

By Nicholas Salomone

Last month we had a very informational meeting. Harris Schaer gave the main presentation on NYSERDA programs and Len Ujzdowski gave the technical session on single zone VAV systems. December will be our Holiday Party and I encourage everyone to relax and network, then earn a PDH credit for watching a Trane DVD on Energy Saving Control Strategies for VAV Systems. We'll kick off the new year with a 2 PDH presentation on Wireless Controls in January. On behalf of the entire ASHRAE Bi-State chapter, happy holidays!

Nicholas Salomone
Bi-State Chapter President

ASHRAE Provides Guidance on the "How-To's" of Energy Audits

Seeking to promote best practices and offer a "how-to" approach, ASHRAE has released updated guidance on building energy audits.

While energy audits are a commonly used component of the industry, there is great diversity in the services delivered to customers, and little industry standardization. The second edition of "Procedures for Commercial Building Energy Audits" promotes best practices, provides "how-to's" and fills a void in available information for engineers, building owners, managers and government entities. The new publication includes time-saving tips for energy auditors, how to hire an auditor, what to ask for in a comprehensive audit report and how to build a successful energy efficiency retrofit team.

"As we work to reduce energy consumption in our commercial buildings, we want to ensure that recommendations are cost effective, technically feasible, maintain safety and comfort and result in significant energy savings" Jim Kelsey, a member of Technical Committee 7.6, Building Energy Performance, and who oversaw the writing of the updated publication, said. "This volume focuses on how to improve energy audit best practices. Providing the best audits that we can will help move the industry forward to net zero buildings."

Additionally, the publication addresses how to build a successful team, analytical methods, successful approaches to site visits, incorporating on-site measurements, economic evaluation of measures and how to organize an energy audit report that promotes action on the part of building owners and managers. It includes many tips for conducting energy audits and reviewing results prepared by others. For example, the top things to check for in when reviewing an audit report include verifying that:

- proposed measures are feasible and appropriate for the building;
- proposed measures meet applicable building codes;
- data are internally consistent;
- savings estimate methods follow established principles and methods;
- estimates of potential energy savings are reasonable compared to quick estimates and historical energy use;
- proposed cost estimates are reasonable relative to field experience;
- interactions between EEMs are identified and addressed;
- recommendations and report meet the project scope, goals and client's needs;
- any financial discussion includes current and viable mechanisms available per the tax structure, location, and motivations of the client.

Another benefit of the new publication is a greatly expanded section of forms and template analyses, including "live" Excel spreadsheets, checklists and equipment-specific forms suitable for field collection of detailed commercial building data, to name just a few.

"Procedures for Commercial Building Energy Audits, Second Edition" is available in the ASHRAE bookstore, www.ashrae.org/bookstore, for \$99 (\$84, ASHRAE members). Or, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, to order.

Carbon Emissions Show Biggest Jump Ever Recorded

Global emissions of carbon dioxide from fossil-fuel burning jumped by the largest amount on record in 2010, upending the notion that the brief decline during the recession might persist through the recovery. Emissions rose 5.9 percent last year, according to an analysis released by the Global Carbon Project, an international collaboration of scientists tracking the numbers. Scientists with the group said the increase, a half-billion extra tons of carbon pumped into the air, was almost certainly the largest absolute jump in any year since the Industrial Revolution, and the largest percentage increase since 2003. The increase solidified a trend of ever-rising emissions that scientists fear will make it difficult, if not impossible, to forestall severe climate change in coming decades.

The researchers said the high growth rate reflected a bounce-back from the 1.4 percent drop in emissions in 2009, the year the recession had its biggest impact. They do not expect the extraordinary growth to persist, but do expect emissions to return to something closer to the 3 percent yearly growth of the last decade, still a worrisome figure that signifies little progress in limiting greenhouse gases. The growth rate in the 1990s was closer to 1 percent yearly. The combustion of coal represented more than half of the growth in emissions, the report found.

In the United States, emissions dropped by a remarkable 7 percent in the recession year of 2009, but rose by just over 4 percent last year, the new analysis shows. This country is the world's second-largest emitter of greenhouse gases, pumping 1.5 billion tons of carbon into the atmosphere last year. The United States was surpassed several years ago by China, where emissions grew 10.4 percent in 2010, with that country injecting 2.2 billion tons of carbon into the atmosphere. Carbon dioxide emissions are usually measured by the weight of carbon they contain.

The new figures come as delegates from 191 countries meet in Durban, South Africa, for yet another negotiating session in a global control effort that has been going on, with minimal success, for the better part of two decades. "Each year that emissions go up, there's another year of negotiations, another year of indecision," said Glen P. Peters, a researcher at the Center for International Climate and Environmental Research in Oslo and a leader of the group that produced the new analysis. "There's no evidence that this trajectory we've been following the last 10 years is going to change."

Scientists say the rapid growth of emissions is warming the Earth, threatening the ecology and putting human welfare at long-term risk. But their increasingly urgent pleas that society find a way to limit emissions have met sharp political resistance in many countries, including the United States, because doing so would entail higher energy costs.

The new figures show a continuation of a trend in which developing countries, including China and India, have surpassed the wealthy countries in their overall greenhouse emissions. In 2010, the combustion of fossil fuels and the production of cement sent more than nine billion tons of carbon into the atmosphere, the new analysis found, with 57 percent of that coming from developing countries.

Emissions per person, though, are still sharply higher in the wealthy countries, and those countries have been emitting greenhouse gases far longer, so they account for the bulk of the excess gases in the atmosphere. The level of carbon dioxide, the main such gas, has increased 40 percent since the Industrial Revolution. On the surface, the figures of recent years suggest that wealthy countries have made headway in stabilizing their emissions. But Dr. Peters pointed out that in a sense, the rich countries have simply exported some of them. The fast rise in developing countries has been caused to a large extent by the growth of energy-intensive manufacturing industries that make goods that rich countries import. "All that has changed is the location in which the emissions are being produced," Dr. Peters said.

Many countries, as part of their response to the economic crisis, invested billions in programs designed to make their energy systems greener. While it is possible those will pay long-term dividends, the new numbers suggest they have had little effect so far. The financial crisis "was an opportunity to move the global economy away from a high-emissions trajectory," said a scientific paper about the new figures, released online by the journal *Nature Climate Change*. "Our results provide no indication of this happening."

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)



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.

Using Standard 90.1 to Meet LEED Requirements

Tuesday, Jan 24 – 9:00 a.m. to 4:00 p.m.

Data Center Energy Efficiency

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

Energy Modeling Best Practices and Applications: HVAC/Thermal

Tuesday, Jan 24 – 9:00 a.m. to 4:00 p.m.

Integrated Building Design

Saturday, Jan 21 – 8:00 a.m. to 3:00 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.

Comply with Standard 90.1-2010: HVAC/Mechanical

Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.

Understanding & Designing Dedicated Outdoor Air Systems (DOAS)

Sunday, Jan 22 – 2:00 p.m. to 5:00 p.m.

Evaluating the Performance of LEED-Certified Buildings

Monday, Jan 23 – 2:30 p.m. to 5:30 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.

Combined Heat & Power

Tuesday, Jan 24 – 9:00 a.m. to 12:00 p.m.

Basics of High-Performance Building Design

Monday, Jan 23 – 8:30 a.m. to 11:30 a.m.

Healthcare Facilities: Best Practice Design

Tuesday, Jan 24 – 9:00 a.m. to 12:00 p.m.

Complying with Standard 90.1-2010: Envelope/Lighting

Monday, Jan 23 – 8:30 a.m. to 11:30 a.m.

Project Management for Improved IAQ

Tuesday, Jan 24 – 9:00 a.m. to 12:00 p.m.

Energy Management in New & Existing Buildings

Monday, Jan 23 – 8:30 a.m. to 11:30 a.m.

Healthcare Facilities: Best Practice Applications

Tuesday, Jan 24 – 1:00 p.m. to 4:00 p.m.

Advanced High Performance Building Design

Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.

Design Toward Net Zero Energy Commercial Buildings

Tuesday, Jan 24 – 1:00 p.m. to 4:00 p.m.

The Commissioning Process & Guideline 0

Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.



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:

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 FULL	15 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

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

**SUNDAY JANUARY
22, 2012
7:00 PM**

**33 W MONROE ST,
CHICAGO, IL 60603
(BTWN S STATE &
DEARBORN ST)**

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

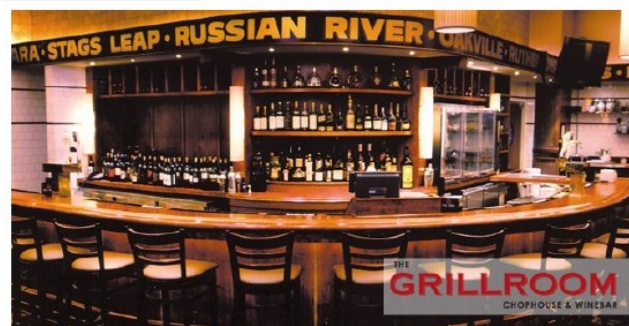
OSCAR STYLE	15
SURF N TURF ANY STEAK WITH 6OZ. LOBSTER TAIL	24
GRILLED JUMBO SHRIMP SKEWER	12
FRIED EGG	3
WOOD SMOKED MUSHROOMS	4

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



Officers and Governors 2011—2012

Position	First Name	Last Name	Email	Phone	Fax
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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

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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



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 vpatel@dpwolff.com

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 NY
 SMACNA, SENY

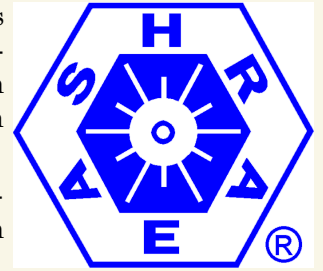
Westchester, Putnam, Rockland, Orange
 Ulster, Sullivan, Dutchess,
 Fairfield & Litchfield, Ct.

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
December	12/14/2011	Sustainability	Energy Saving Control Strategies for VAV Systems	
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	

Greenhouse Gas Metric Climbing

The National Oceanic and Atmospheric Administration (NOAA) Annual Greenhouse Gas Index (AGGI), which measures the direct climate influence of greenhouse gases, shows a continued steady upward trend that began with the Industrial Revolution of the 1880s. Started in 2004, the AGGI reached 1.29 in 2010, the most recent data year. That means the combined heating effect of long-lived greenhouse gases added to the atmosphere by human activities has increased by 29% since 1990, the year used as a baseline for comparison.

Sustainable Buildings Cost Less to Maintain

Sustainably designed federal buildings cost 19% less to maintain, according to a report by the U.S. Department of Energy's Pacific Northwest National Laboratory. The report, prepared for the General Services Administration (GSA), also found that such buildings also use 25% less energy, consume 11% less water and emit more than one-third less carbon dioxide than conventionally designed buildings. The study also found occupant satisfaction to be significantly higher in sustainable buildings.

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