



Bi-State Chapter Exchanger

Volume XXVIII, Issue 2

Serving the Hudson Valley and Western Connecticut

October 2014

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Meeting Monday October 27, 2014

Joint meeting with AIA Westchester Hudson Valley Chapter at their Design and Technology Expo at the Westchester Marriott Hotel, Tarrytown

The October meeting is going to be a joint meeting with AIA. We are going to have an ASHRAE track at their annual AIA Westchester Hudson Valley Expo. This event will have numerous presentations which can get PDH's as well as a chance to walk the Expo floor, network and have a great Dinner.

See additional details in the AIA flyer on page 3 of this issue.



Join ASHRAE at its **Winter Conference** in Chicago, Jan. 24–28 **and AHR Expo** Jan. 26–28

- Gain personal and career excellence through peer contact, exchange of technical information and continuing education.
- 20 high-quality, authoritative Professional Development Seminars and Short Courses presented by the ASHRAE Learning Institute.
- Visit the World's Largest HVAC&R Marketplace. The AHR Expo brings the entire industry together to see the latest products and technology, learn about innovations and trends that are shaping the future, and build new relationships.
- With the Conference being held in the big city of Chicago, the Technical Program itself is going big with a focus on big projects, the big picture and big impacts. Eight tracks are featured.
- Gain valued credentials held by top engineers via ASHRAE's six Certification programs.
- See the technology you help create first-hand via a Technical Tour.

Special first time attendee registration fee available!
Advanced registration, offering the lowest rates, ends Nov. 3.

REGISTER EARLY!

www.ashrae.org/chicago | www.ahrexpo.com

President's Message

By James F. Dolan, P.E., CEM, CPMP, LEED AP

For those of you who don't know me this is my second time around as President of the Chapter. It's a privilege to hold the position for the Chapter and I look forward to a great year and so many of you working to help the Chapter.

We are off to another great year for the ASHRAE BiState Chapter. We kicked things off by hosting the CRC right here in Tarrytown in August. For those of you who aren't familiar, the CRC or (Chapter Regional Conference) is the annual event year where the business of ASHRAE is done on a Regional Level. Many ideas on running Chapters and the Region were shared, and technically a vision of the Future was explored with David Underwood, delivering the current theme of the President of ASHRAE, Thomas Phoenix PE. His presidential theme is, **"People, Passion and Performance."** There was much to the overall presentation and that can be found on the ASHRAE Website but a key point made that Passion ignites energy.

"Passion ignites energy. Energy ignites a purpose. Having a purpose leads to success. But, nothing happens unless there is passion."

So this year we want to ensure that we are creating an avenue to help our members collaborate, enjoy their passion as a group and hopefully help spark that passion in our younger members.

We want to do that across our chapter membership in Engineers, Contractors, Vendors, Owners/Operators, Students, Professors, and all those who can find the value in being a member of ASHRAE and their local Chapter.



ASHRAE CRC BiState Team

Rear left to right: Brendan Smith, Cliff Konitz, Mike Circosta, Alix Caffuzzi, Dennis LaVopa
Front left to right: Tricia Sue, Stephanie O'Dea, Jim Dolan, John Fusco

Please find in this issue (on page 4) a note from Cliff Konitz regarding his time as an ASHRAE member. We want to encourage membership with the Chapter, and Cliff articulates many of the reasons he has valued his membership with AHSRAE and the Chapter. Don't miss this special part of this month's Exchanger.

Upcoming October Meeting

Our upcoming meeting is going to be a joint meeting with AIA. We are going to have an ASHRAE track at their annual AIA Westchester Hudson Valley Expo. This event will have numerous presentations which can get PDH's as well as a chance to walk the Expo floor, network and have a great Dinner. See additional details in the AIA flyer on page 3 of this issue, as well as a link to register on our ASHRAEBiState.org website.

See you at the EXPO.

James F. Dolan, P.E., CEM, CPMP, LEED AP
Bi-State Chapter President



Progression 2014 | AIAWHV Annual Design + Technology Expo



AIA Westchester + Hudson Valley

MARK YOUR CALENDAR, THE AIA WHV EXPO RETURNS!

AIA Westchester + Hudson Valley hosts the 2014 Design and Technology Expo at the Westchester Marriot, Tarrytown, NY. The 2014 Expo represents the continuing evolution of architectural technology and practice.

- EXPO FLOOR AND DINNER - FREE!**
- CEU UNIVERSITY "ALL-YOU-CAN-EAT-COURSES!"** (lunch not included)
- CEU ENTRANCE FEES INCLUDE DINNER**

\$20 AIA Members & Allied Professional Organizations
 \$40 Non-Members
 Free to Associate AIA Members

Afternoon and Evening Classes: 9am to 8pm (last class will begin at 7pm)



Don't miss this opportunity to dine and network with vendors and guests!

The 2014 EXPO is an arena for networking, product research, and Continuing Education Credits. The 2014 vendor list will be published in early September and updated weekly through October 27th.

Vendors at the 2013 EXPO included:

- | | |
|------------------------------|---------------------|
| OLA Consulting Engineers, PC | Select Telecom |
| Weyerhaeuser | Palumbo Block |
| Andersen Windows | Benjamin Moore & Co |
| Best Plumbing | Sherwin Williams |
| ASHRAE | Pyramid Lighting |

Location:

Westchester Marriott
 670 White Plains Road Tarrytown, NY 10591
 (914) 631-2200
www.westchestermarriott.com

Date & Time:

October 27, 2014
 CEU University: 9am to 8pm
 Expo Floor: 4pm to 8pm

Registration: Please register online at the AIA WHV website <http://aiawhv.org>

Getting Involved in ASHRAE

Cliff Konitz, Bi-State Chapter Webmaster, Administrator and Board of Governors Member



ASHRAE has been an essential part of my life over the past 30 years. Back in the early 1980's my career changed from doing engine test work developing lubricants at Texaco's Research Laboratories in Beacon, New York to becoming the laboratories' chief engineer for overseeing the HVAC systems for the facilities. This included trouble shooting systems to designing renovations. In my work as an engineer I have always felt that belonging to the engineering society associated with my work was important to my career development and in turn it was important to give back something to that society. Joining ASHRAE and attending local meetings helped me learn about HVAC systems and develop a knowledge on how to improve them. It also gave me an opportunity to meet others in the industry and to exchange information and ideas.

Getting involved with the local chapter and then the region has been very rewarding and has given me a perspective of how important ASHRAE is worldwide. I started off as Treasurer for the chapter and Membership Promotion chair, then on to Chapter President, from there I was chapter Secretary and Research Promotion chair. I then became involved with the Region serving as Treasurer for two years and then on to Regional Vice Chair for Research Promotion for three years and finally on to the Regional Nominating Committee for six years. During my tenure with Regional activities, I have continued to be involved with the Chapter by serving on the Board of Governors. This past year I helped organize the 2014 Regional CRC. I continue on the chapter BOG and act as chapter administrator. Being part of ASHRAE has meant a lot to me, and I hope that I have made a significant contribution to the Society. I recommend that younger ASHRAE members get involved with the chapter. It's a great way to help in their career development!

DOE Updates National Reference Standard for Commercial Buildings to 90.1-2013

Following preliminary analysis that ASHRAE/IES's 2013 energy efficiency standard contains energy savings over the 2010 standard - 8.5 percent source energy savings and 7.6 site energy savings - the U.S. Department of Energy (DOE) has issued a ruling that establishes the 2013 standard as the commercial building reference standard for state building energy codes.

In an announcement in the Sept. 26, 2014 edition of "The Federal Register," DOE attributes the greater energy savings to improvements in ANSI/ASHRAE/IES Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, related to several areas, including better lighting, fans, commercial refrigeration, boilers and controls.

The determination means that states are required to update their codes to meet or exceed the 2013 standard within two years. Currently, states must meet or exceed the 2010 standard, which serves as the commercial building reference standard for state building energy codes under the federal Energy Conservation and Production Act.

"ASHRAE is pleased with this ruling from the DOE, recognizing the energy savings measures in the standard," ASHRAE President Tom Phoenix said. "Standard 90.1 was an original cornerstone in our efforts to improve building performance, and we continue to strive to increase its efficiency in the future."

Among the eight addenda that are identified as having a major positive impact on energy efficiency, IES notes that three are attributed to lighting changes according to Rita Harrold, IES director of technology. These address control requirements for lighting alterations, additional controls for more spaces with a shortened time to lighting reduction or shutoff, and a decrease in lighting power density in most building types to reflect changes in revisions to illuminance recommendations in the IES Lighting Handbook, 10th edition.

The DOE noted that the 2013 standard contains 52 positive impacts on energy efficiency that were incorporated into the analysis. These impacts included changes made through the public review process in which users of the standard comment and offer guidance on proposed requirements. Specifically the major positive impacts include:

- Control requirements for lighting alternations
- New requirements for individual fans
- Reduction of energy usage for large boilers
- Reduction of fan energy usage
- New efficiency requirements for commercial refrigeration
- More controls in more spaces and reduction of time to reduction or shut off of those controls
- Reduction of lighting power density in most building types

ASHRAE Learning Institute 2014 Fall Online Course Series

2 WAYS TO REGISTER

Take 3 or more courses and save 15% off registration!

Internet: www.ashrae.org/onlinecourses

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Note: You may register up to 24 hours prior to an online course. Courses are in US Eastern Time.

High-Performance Building Design: Applications and Future Trends

Mon, September 8, 2014 – 1:00 pm to 4:00 pm EDT

Air-to-Air Energy Recovery Applications: Best Practices

Wed, September 10, 2014 – 1:00 pm to 4:00 pm EDT

Evaluation Methods for High-Performance Green Buildings

Mon, September 22, 2014 – 1:00 pm to 4:00 pm EDT

Fundamental Requirements of Standard 62.1-2013

Wed, September 24, 2014 – 1:00 pm to 4:00 pm EDT

NEW! Building Demand Response & the Coming Smart Grid

Mon, September 29, 2014 – 1:00 pm to 4:00 pm EDT

District Cooling & Heating Systems: Central Plants

Mon, October 6, 2014 – 1:00 pm to 4:00 pm EDT

Maximizing Customer Benefits Using Key Electric Utility Products

Mon, October 13, 2014 – 1:00 pm to 4:00 pm EDT

Combined Heat & Power: Creating Efficiency through Design & Operations

Mon, October 20, 2014 – 1:00 pm to 4:00 pm EDT

Design of Commercial Ground Source Heat Pumps

Wed, October 22, 2014 – 1:00 pm to 4:00 pm EDT

Energy Efficiency in Data Centers

Mon, November 3, 2014 – 1:00 pm to 4:00 pm EST

Commissioning for High-Performance Buildings

Wed, November 5, 2014 – 1:00 pm to 4:00 pm EST

Exceeding Standard 90.1-2013 to Meet LEED® Requirements

Wed, November 12, 2014 – 1:00 pm to 4:00 pm EST

The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH credits.

Complying with Standard 90.1-2013

Part 1 - Mon, September 15, 2014 – 1:00 pm to 4:00 pm EDT

Part 2 - Wed, September 17, 2014 – 1:00 pm to 4:00 pm EDT

Healthcare Facilities: Best Practices for Design & Applications

Part 1 - Wed, October 8, 2014 – 1:00 pm to 4:00 pm EDT

Part 2 - Wed, October 15, 2014 – 1:00 pm to 4:00 pm EDT

HVAC Design Training

2 Courses, 5 Days of Intense Instruction

November 2014 – Atlanta, GA

HVAC Design: Level I - Essentials

ASHRAE's *HVAC Design: Level I - Essentials* provides intensive, practical training for HVAC designers and others involved in delivery of HVAC services. Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II - Applications

ASHRAE's *HVAC Design: Level II - Applications* provides advanced instruction on HVAC system design for experienced HVAC designers and those who complete the *HVAC Design: Level I - Essentials* training. In two days, gain an in-depth look into *Standards 55, 62.1, 90.1, and 189.1* and the *Advanced Energy Design Guides*. Training will focus on a range of topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Visit www.ashrae.org/hvacdesign to register

Student Activities — New School Year Starts

Stephanie O'Dea, Student Activities Chair

This year in Student Activities we are doing a push towards creating a larger impact within our local colleges. ASHRAE had a large impact on my college career with my school being very active in our local Nebraska ASHRAE Chapter. I am hoping to pay it forward to local students here by bringing energy and knowledge of the industry to them to help them with their college paths.

At this year's CRC the Student Activities Chairs got together to discuss things that have worked in the past to help generate interest and members in local areas. This exchange of ideas is going to prove invaluable to helping out our chapter raise our student membership and help create student chapters in colleges that do not have them already. So, keep an eye out for student activities and let us know if you're interested in helping out!

ASHRAE Certification Programs

BEMP Practice Exam Now Available

ASHRAE has launched a practice exam for the Building Energy Modeling Professional (BEMP) certification. The practice exam is designed to be similar in content and difficulty to the actual certification exam. It is a low-cost, online tool for limited self-assessment with a score report overview of performance at the end of the exam. Practice exams are already in place for the BEAP, CPMP and HFDP certifications. Practice exams for the HBDP and OPMP certifications are under development and should be launched later this year.

Visit www.ashrae.org/BEMP to learn more about the BEMP practice exam.

Visit www.ashrae.org/certification to learn more about ASHRAE certifications.

New Publications from ASHRAE

ASHRAE, a leader in building information technology, develops publications that impact every facet of the environment, both indoors and out.

Data Center Design and Operation – ASHRAE Datacom Series CD 4th Ed.



This CD-ROM presents the full text of all eleven ASHRAE Datacom Series publications and Standard 127-2012 in fully searchable and printable PDF format. Authored by ASHRAE Technical Committee 9.9, the Datacom Series provides comprehensive treatment of data center cooling, energy efficiency, and related subjects.

\$289 (\$246 ASHRAE Member) / CD / 2014

ASHRAE Reference Offers Design Guidance on Healthcare HVAC Systems



The second edition of *HVAC Design Manual for Hospitals and Clinics* provides in-depth design recommendations based on best practices from consulting and hospital engineers, with a focus on presenting what's different about healthcare HVAC systems.

\$129 (\$109 ASHRAE Member) / 312 pages / 2013

Visit www.ashrae.org/bookstore to learn more about these and other outstanding ASHRAE publications!

ASHRAE/EIS Publish User's Manual for Standard 90.1

Guidance on how to incorporate changes regarding building envelope, lighting, mechanical and the energy cost budget in the 2013 energy standard from ASHRAE and IES are included in a newly published User's Manual. ANSI/ASHRAE/IES Standard 90.1-2013, Energy Standard for Buildings Except Low-Rise Residential Buildings, incorporates 110 addenda, reflecting changes made through the public review process.

Because the standard is written in mandatory language and is not intended as a design specification or an instruction manual, the User's Manual was developed to minimize multiple interpretations of Standard 90.1 that may occur. The manual helps users of the standard understand its principles and requirements and how to comply with them. It also includes measurements and calculations in both I-P and SI units, making it usable with either edition of Standard 90.1.

The book includes sample calculations, application examples and references to helpful resources and websites. It is intended for architects, engineers, contractors, code officials and other building professionals, and is also suitable for use in educational programs. In addition, purchasers of this User's Manual can download compliance forms and tools from ASHRAE.org.

"Including all the forms and instructions together in one location vs. including them in print allows users to download the package for continual use in their business," Drake Erbe, Standard 90.1 committee chair, said.

The cost of the User's Manual to ANSI/ASHRAE/IES Standard 90.1-2013, Energy Standard for Buildings Except Low-Rise Residential Buildings, is \$115 (\$98, ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 678-539-2129, or visit www.ashrae.org/bookstore.

System Converts Solar Efficiently to Steam

Not all solar energy capture devices make electricity directly. For example, steam generated from solar energy can turn turbines, which then produce electricity. And, in what could be especially useful in remote regions, solar steam can desalinate water and be used in sanitation and equipment sterilization. Now a new technique looks to be the most efficient way yet created to use solar energy to generate steam.

To absorb sunlight, M.I.T. researchers created a porous disc of graphite flakes. Underneath the disk is a layer of insulating carbon foam that floats on water. The foam prevents heat from being lost to the water, and has a tangle of interconnected small pores. As sun heats the graphite, it creates a pressure difference that pulls water up through the foam pores, like a sponge. When the water hits the graphite hot spot, it turns into steam.

The scientists report that this inexpensive system reaches 85 percent efficiency in converting the solar energy into steam. The study is in the journal *Nature Communications*.

New Study Finds Price of Wind Energy in U.S. at an All-Time Low

Wind energy pricing is at an all-time low, according to a new report released by the U.S. Department of Energy and prepared by Lawrence Berkeley National Laboratory (Berkeley Lab). The prices offered by wind projects to utility purchasers averaged just \$25/MWh for projects negotiating contracts in 2013, spurring demand for wind energy.

"Wind energy prices—particularly in the central United States—are at an all-time low, with utilities selecting wind as the low cost option," Berkeley Lab Staff Scientist Ryan Wiser said. "This is especially notable because, enabled by technology advancements, wind projects have increasingly been built in lower wind speed areas."

Key findings from the U.S. Department of Energy's latest "Wind Technologies Market Report" include:

- Wind is a credible source of new generation in the United States.
- Turbine scaling is boosting wind project performance.
- Low wind turbine pricing continues to push down installed project costs.
- Wind energy prices have reached all-time lows, improving the relative competitiveness of wind.
- The manufacturing supply chain has experienced substantial growing pains in recent years, but a growing percentage of the equipment used in U.S. wind projects has been sourced domestically since 2006-2007.
- Looking ahead, projections are for solid growth in 2014 and 2015, with uncertain prospects in 2016 and beyond.

The availability of federal incentives for wind projects that began construction at the end of 2013 has helped restart the domestic market, with significant new builds anticipated in 2014 and 2015. However, as noted by Mark Bolinger, Research Scientist at Berkeley Lab, "Projections for 2016 and beyond are much less certain. Despite the attractive price of wind energy, federal policy uncertainty—in concert with continued low natural gas prices and modest electricity demand growth — may put a damper on medium-term market growth."

Project LIBERTY Biorefinery Starts Cellulosic Ethanol Production

Project LIBERTY, the nation's first commercial-scale cellulosic ethanol plant to use corn waste as a feedstock, announced the recent start of production. Once operating at full, commercial-scale, the biorefinery in Emmetsburg, Iowa will produce 25 million gallons of cellulosic ethanol per year - enough to avoid approximately 210,000 tons of CO₂ emissions annually. Developed with the support of approximately \$100 million in investments and research from the U.S. Department of Energy, the facilities use biochemical conversion technologies such as yeast and enzymes to convert cellulosic biomass into transportation fuels.

"The Energy Department's investments in projects like the LIBERTY biorefinery are helping to bring innovative, cost-cutting biofuel technologies online and diversify our transportation fueling options," said Secretary Ernest Moniz. "Home-grown biofuels have the potential to further increase our energy security, stimulate rural economic development, and help reduce greenhouse gas emissions from the transportation sector."

Project LIBERTY will produce cellulosic ethanol from corncobs, leaves, husks, and corn stalk harvested by local farmers located within a 30 to 40 mile radius of the plant, producing 2,600,000 MMBTu (or million British Thermal Units) per year from the anaerobic digester and solid fuel boiler to power the entire facility as well as POET-DSM's co-located existing corn ethanol plant. This is enough to power about 70,000 American homes for a year.

Project LIBERTY is the nation's second commercial-scale cellulosic ethanol biorefinery to come online. In 2013, INEOS Bio's Indian River BioEnergy Center in Vero Beach, Florida, began producing 8 million gallons of cellulosic ethanol per year from vegetative, yard, and municipal solid waste. Project LIBERTY will serve as a test bed for producing cellulosic ethanol with biochemical conversion technologies, helping to inform the design and construction of other advanced biofuels projects.

New Project is the ACME of Addressing Climate Change

High performance computing (HPC) will be used to develop and apply the most complete climate and Earth system model to address the most challenging and demanding climate change issues.

Eight national laboratories, including [Lawrence Livermore](#), are combining forces with the National Center for Atmospheric Research, four academic institutions and one private-sector company in the new effort. Other participating national laboratories include [Argonne](#), [Brookhaven](#), [Lawrence Berkeley](#), [Los Alamos](#), [Oak Ridge](#), [Pacific Northwest](#) and [Sandia](#).

The project, called [Accelerated Climate Modeling for Energy](#), or ACME, is designed to accelerate the development and application of fully coupled, state-of-the-science Earth system models for scientific and energy applications. The plan is to exploit advanced software and new high performance computing machines as they become available.

The initial focus will be on three climate change science drivers and corresponding questions to be answered during the project's initial phase:

Water Cycle: How do the hydrological cycle and water resources interact with the climate system on local to global scales? How will more realistic portrayals of features important to the water cycle (resolution, clouds, aerosols, snowpack, river routing, land use) affect river flow and associated freshwater supplies at the watershed scale?

Biogeochemistry: How do biogeochemical cycles interact with global climate change? How do carbon, nitrogen and phosphorus cycles regulate climate system feedbacks, and how sensitive are these feedbacks to model structural uncertainty?

Cryosphere Systems: How do rapid changes in cryospheric systems, or areas of the earth where water exists as ice or snow, interact with the climate system? Could a dynamical instability in the Antarctic Ice Sheet be triggered within the next 40 years?

Over a planned 10-year span, the project aim is to conduct simulations and modeling on the most sophisticated HPC machines as they become available, i.e., 100-plus petaflop machines and eventually exascale supercomputers. The team initially will use U.S. Department of Energy (DOE) Office of Science Leadership Computing Facilities at Oak Ridge and Argonne national laboratories.

Chicago Buildings Cut Carbon, Save \$2.5M

Chicago's biggest buildings have eliminated more than 28,000 metric tons of CO₂ emissions and saved \$2.5 million in annual avoided energy costs through retrofits, according to a Natural Resources Defense Council report. The Retrofit Chicago Commercial Business Initiative offers a replicable model for other municipalities, the report says.

Dozens of the city's most recognizable buildings have pledged to reduce their energy consumption by 20 percent over five years as part of the initiative. Program participant buildings range in age from 3 to 125 years old and include cultural institutions, tourist attractions, hotels, university facilities and some of the city's most iconic office towers.

To achieve those goals, buildings get access to incentives and technical expertise from program partners NRDC and ComEd. Retrofits include a shift to more efficient lighting, revamped heating and cooling systems tied to motion detectors, upgraded ventilation systems and HVAC motors, as well as direct work with tenants to improve efficiency in their office spaces.

According to NRDC's evaluation, the participating buildings have already cut energy usage by 7 percent in less than two years, putting them on target to fulfill their goals.

In September 2013, the Chicago City Council passed the energy use benchmarking measure proposed by Mayor Rahm Emanuel earlier that year. The new law requires owners of commercial, residential and municipal buildings over 50,000 square feet to track and verify energy consumption using the EPA's Portfolio Manager, starting in 2014. The information about individual buildings will be publicly available starting in 2015.

The Chicago Building Owners and Managers Association opposed mandating public disclosure of energy usage, saying it would penalize older buildings in terms of competitiveness. But proponents said there are no mandatory requirements to improve energy efficiency, only a requirement to benchmark energy efficiency, which could provide valuable information about energy waste.



APPLY

Each year the ASHRAE Foundation awards scholarships of up to \$10,000 each to qualified students.

DONATE

Help support ASHRAE's student scholarship programs.

www.ashrae.org/scholarships

Bi-State Chapter Officers and Governors 2014—2015

Position	First Name	Last Name	Email	Phone
Officers				
President	James (Jim)	Dolan	jdolan@olace.com	(914) 919 3106
President-Elect	TBD		TBD	
Vice President	TBD		TBD	
Secretary	Brendan	Smith	bsmith@lynstaar.com	(914) 741-1290 ext 17
Treasurer	Dennis	LaVopa	dlavopa@dIFlowTech.com	(845) 265-2828
Governors				
BOG (term ends June 2017)	John	Fusco	jfusco@olace.com	(914) 919-3178
BOG (term ends June 2017)	Cliff	Konitz	c.konitz@verizon.net	(845) 297-5864
BOG (term ends June 2017)	Stephanie	O'Dea	Stephanie.L.Odea@jci.com	(914) 593-5245
BOG (term ends June 2016)	Michael	Circosta	mjcarmonk@optonline.net	(914) 273-9173
BOG (term ends June 2016)	Dennis	LaVopa	dlavopa@dIFlowTech.com	(845) 265-2828
BOG (term ends June 2016)	Robert	Roston	bob@rostonfamily.com	(914) 761-3364
BOG (term ends June 2015)	Tom	Quartuccio	tquart@optonline.net	
BOG (term ends June 2015)	Brendan	Smith	bsmith@lynstaar.com	(914) 741-1290 ext 17
BOG (term ends June 2015)	Larry	Sturgis		
Chapter Delegate	James	Dolan	jdolan@olace.com	(914) 919 3106
Chapter Alternate	TBD	TBD		
Committee Chairs				
CTTC	Marc	Wilson	Marc.Wilson@victaulic.com	(571) 271 8955
Government Affairs	Michael	Circosta	mjcarmonk@optonline.net	(914) 273-9173
Research Promotion	Tom	Quartuccio	tquart@optonline.net	
Student Activities	Stephanie	O'Dea	Stephanie.L.Odea@jci.com	(914) 593-5245
Young Engineers in ASHRAE	Brendan	Smith	bsmith@lynstaar.com	(914) 741-1290 ext 17
Membership Promotion	James	Dolan	jdolan@olace.com	(914) 919-3106
Refrigeration	John	Fusco	jfusco@olace.com	(914) 919-3178
Webmaster	Cliff	Konitz	c.konitz@verizon.net	(845) 297-5864
Newsletter Editor	Michael	Gordon	gordonm@emfcontrols.com	(914) 747-1007
Historian	Robert	Roston	bob@rostonfamily.com	(914) 761-3364
Reception	Joseph	Trongone	jatrongone@optimumonline.com	(914) 332-7658
Administrator	Cliff	Konitz	c.konitz@verizon.net	(845) 297-5864
Golf	Steven	Abbattista	sabbattista@olace.com	(914) 919-3102

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.

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



Walter E. Greenwood (Chip)
PRESIDENT
(914) 747-1007 Phone
(914) 747-1054 Fax
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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.
- 2.\$150.00 from companies placing ad for two (2) months.
- 3.No charge for members looking for employment.

EPA, FBI Warn of Dangerous Fake R-22

The U.S. Environmental Protection Agency (EPA) is cautioning homeowners, manufacturers of propane-based refrigerants, home improvement contractors and air-conditioning technicians of the safety hazards related to the use of propane in existing motor vehicle and home air-conditioning systems. EPA says a number of unapproved refrigerants with "22a" or "R-22a" in the name contain highly flammable hydrocarbons, such as propane. These refrigerants are being marketed to consumers seeking to recharge existing home and motor vehicle air-conditioning systems that were not designed to use propane or other flammable refrigerants. The FBI has joined EPA in issuing warnings and has launched an investigation into the sale of unapproved refrigerants. Specifically, it says the two agencies, along with the U.S. Department of Transportation—Office of Inspector General "are conducting an investigation into a flammable 'refrigerant' sold as Super-Freezer 22a, Super-Freezer12a, Super-Freezer 134a, Enviro-Safe 22a, and R134a."



ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow’s built environment today.

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	10/27/2014	Research Promotion	Joint meeting with AIA Westchester at their Design Expo Event, Westchester Marriott	
November	11/12/2014	Sustainability	Save the date	
December	12/10/2014	Membership Promotion	Save the date	
January	1/14/2015	Student Activities	Save the date	
February	2/11/2015	Research Promotion	Save the date	
March	3/11/2015	Sustainability	Save the date	
April	4/8/2015	Membership Promotion	Save the date	
May	5/13/2015	Student Scholarships	Golf Outing	
June	6/10/2015	Refrigeration	Save the date	

Deadly Dangers Hidden for Years in North Carolina Best Western Hotel

Carbon monoxide dangers have been found at the Best Western Hotel in Boone, N.C., where a York County boy died in June 2013—in the same room where a Washington state couple died of carbon monoxide poisoning in April 2013. A state licensing board has held a heating contractor accountable for failing to detect obvious carbon monoxide hazards. It has filed a complaint against another contractor for wrongly converting the hotel’s swimming pool water heater from propane to natural gas. The hotel’s former manager faces three counts of manslaughter.

Massachusetts Airport Aims to Achieve ‘Net Zero’ GHG Emissions

Nantucket Memorial Airport is set to become the first U.S. airport to achieve net zero greenhouse gas (GHG) emissions. Phase One, completed last spring, included data collection, inventory and an energy audit that allowed the airport to identify improvements to save energy. Phase Two, launched in late June, includes execution of energy conservation measures and renewable energy installations intended to reduce the airport’s reliance on external energy sources and eliminate nearly 1,000 metric tons of carbon emissions each year at the airport. Phase Two will implement more than 25 energy conservation measures and features, including arrays of solar photovoltaic panels with capacities from 1.5 MW to 2.1 MW, a suite of new building equipment including indoor and outdoor LED lighting, retrocommissioning of major mechanical systems including energy recovery ventilators, building envelope improvements, solar thermal development to provide a renewable source of hot water heating, an integrated building management platform, highly efficient infrared garage heating and boiler burner replacements.

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