ASHRAE Bi-State Chapter
Exchanger

Volume XXVI, Issue 5 | Serving the Hudson Valley and Western Connecticut | January 2013

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Upcoming Events

- **February 13** - Save the date
- **March 13** - Hydraulic Balancing Seminar
- **April 10** - Engineering Design Liability Issues
- **May 8** - Golf Outing
- **June 12** - LEED building tour

Meeting Wednesday January 9, 2013

Presentation: Common HVAC Noise and Vibration Applications

This session will discuss the ASHRAE indoor sound criteria in Chapters 8 and 48 of the Handbooks. The seminar will also present experiences and practical examples of problems encountered in buildings with mechanical equipment and how they were solved. The attendees will also participate in an open discussion on the examples of sound and vibration control measures that exist in practice. The presenter is Matthew T. Murello, P.E., president of Lewis S. Goodfriend & Associates. Mr. Murello is a member of the Acoustical Society of America; Institute of Noise Control Engineering; American Society of Heating, Refrigerating and Air Conditioning Engineers; National Society of Professional Engineers; and the Transportation Research Board. He is a member of the Technical Committee for ASHRAE's TC2.6 Sound & Vibration.

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 / Tech Session
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. Walk-ins welcome.

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.

For questions about the program email:

John Fusco jfusco@olace.com

President's Message

By John A. Fusco, P.E., LEED AP

Welcome to 2013! Last month we featured a presentation by James Tauby, ASHRAE Distinguished Lecturer, on Seismic Restraint and Vibration Isolation. Quite a bit of information was presented on do's and don'ts regarding seismic and vibration elimination design and installation, with case study photos and testing videos presented. Thanks to James and to the ASHRAE DL program for making this presentation possible.

This month we feature a presentation by Matthew Murello, PE of Lewis Goodfriend & Associates on "Common HVAC Noise and Vibration Applications," a good, bad, ugly practical discussion on acoustical issues pertaining to mechanical equipment in buildings.

Please check for our emails and our website for information on upcoming events and to download current and past newsletters.

John A. Fusco, P.E., LEED AP
Bi-State Chapter President

Cuomo Signs Executive Order Mandating Energy Efficiency Increases at State Buildings

An executive order by New York Governor Andrew Cuomo directs state agencies to increase energy efficiency in state buildings by 20 percent in seven years. It is one of the most ambitious initiatives in the nation and will save millions of dollars for taxpayers while creating thousands of jobs and significantly reducing greenhouse gas emissions.

The governor also launched "Build Smart NY," a plan to strategically implement the executive order by accelerating priority improvements in energy performance. The New York Power Authority, the state's public power organization, has set aside $450 million in low-cost financing for the project.

Build smart NY supports the governor's larger NY Works program and economic development agenda, which coordinates state funding to accelerate projects that will create jobs and improve the state's infrastructure. NY Works is designed to speed up select projects with maximum economic impact, allowing them to begin as soon as possible and reduce project costs by hundreds of millions of dollars.

Insurance Industry Paying Increasing Attention to Climate Change

The insurance industry, the world's largest business with $4.6 trillion in revenues, is making larger efforts to manage climate change-related risks, according to a new study published in the journal *Science*. "Weather and climate-related insurance losses today average $50 billion a year. These losses have more than doubled each decade since the 1980s, adjusted for inflation," states the study's author Evan Mills, a scientist in Lawrence Berkeley National Laboratory's Environmental Energy Technologies Division. "Insurers have become quite adept at quantifying and managing the risks of climate change, and using their market presence to drive broader societal efforts at mitigation and adaptation." Hurricane Sandy is only the most recent U.S. example of the kinds of increasing liabilities posed by severe weather events in a changing climate.

Managing a portfolio of $25 trillion in assets, similar in size to mutual funds or pensions globally, the insurance industry has become a significant voice in world policy forums addressing the issue, as well as a market force, investing at least $23 billion in emissions-reduction technologies, securities, and financing, plus $5 billion in funds with environmental screens, seeing risks to investments in polluting industries and opportunities in being part of the clean-tech revolution.

Responding to shareholder, regulatory, and market forces, three global initiatives [UN Environment Program Finance Initiative (1995), ClimateWise (2007), and the Kyoto Statement (2009)] have compelled 129 insurance firms from 29 countries to engage in activities including: supporting climate research; developing climate-responsive products and services; raising awareness; reducing in-house greenhouse gas emissions; quantifying and disclosing climate risks; incorporating climate change into investment decisions; and influencing public policy. The ultimate goal of these industry activities is reducing climate-related losses among their customers as well as reducing their own exposure to risk, which is rising in step with the magnitude and frequency of extreme weather-related events. These insurers, together with reinsurance companies (the insurers of insurance companies), industry associations, brokers, catastrophe-loss modelers, and partners in the research community, have been using sophisticated analytical tools to quantify and diversify their exposure to climate change risk, more accurately price and communicate risk, and get adaptation and loss-prevention efforts up and running.

Research Promotion Contribution Form

PLEASE COMPLETE THE INFORMATION BELOW AND RETURN WITH YOUR CONTRIBUTION TO:

James Kolk
528 Middle Street
North Babylon, NY 11703
Phone: 631-219-8502 Fax: 610-923-3352

Please accept my research investment in the amount of $_____

Make checks out to **ASHRAE Research**.

Name_____Member #_____

Company_____Chapter_Bi-State_____

Address_____

City_____State_____Zip_____

Please check one: ( ) Personal contribution
( ) Company contribution

Charge my gift to: ( ) Visa ( ) Master Card ( ) American Express

Credit Card #_____Expiration Date_____

Signature_____

Donors are recognized for their contributions as follows:

Honor Roll contributors are listed in the October ASRHAE Journal and receive the commemorative coin recognizing Giants in HVAC&R invention or innovation.

Individual Honor Roll beginning at $100
Corporate Honor Roll beginning at $150

Investors with contributions of $250 or more receive a wall plaque that can display six commemorative coins.

Contributions in any amount are gratefully received and 100% of the contribution goes directly to research. All contributions are tax deductible.

U. S. Energy Production Outstrips Consumption Growth

Energy production in the United States is outpacing the growth of consumption, according to the U.S. Energy Information Administration's (EIA) "Annual Energy Outlook 2013" report. Also, the report found that renewable energy use is growing much faster than the use of fossil fuel. "Evolving consumer preferences, improved technology, and economic changes are pushing the nation toward more domestic energy production, greater vehicle efficiency, greater use of clean energy and reduced energy imports," said EIA Administrator Adam Sieminski. "This combination has markedly reduced projected energy-related carbon dioxide emissions."

Peel-and-Stick Solar Panels

Most solar cells are rigid. They must be deployed in stiff and often heavy fixed panels, limiting their applications. Stanford University researchers have succeeded in developing the world's first peel-and-stick thin-film solar cells. The advance is described in a paper in the December 20, 2012 issue of *Scientific Reports*.

Unlike standard thin-film solar cells, peel-and-stick thin-film solar cells do not require any direct fabrication on the final carrier substrate. Thin-film photovoltaic cells are traditionally fixed on rigid silicon and glass substrates, greatly limiting their uses, says Chi Hwan Lee, lead author of the paper and a PhD candidate in mechanical engineering. While the development of thin-film solar cells promised to inject some flexibility into the technology, explains Xiaolin Zheng, a Stanford assistant professor of mechanical engineering and senior author of the paper, scientists found that use of alternative substrates was problematic.

"Nonconventional or 'universal' substrates are difficult to use for photovoltaics because they typically have irregular surfaces, and they do not do well with the thermal and chemical processing necessary to produce today's solar cells," Zheng says. "We got around these problems by developing this peel-and-stick process, which gives thin-film solar cells flexibility and attachment potential we have never seen before, and also reduces their general cost and weight." Utilizing the process, researchers attached thin-film solar cells to paper, plastic and window glass, among other materials. "It's significant that we didn't lose any of the original cell efficiency," says Zheng.

The new process involves a unique silicon, silicon dioxide and metal "sandwich." First, a 300-nanometer film of nickel (Ni) is deposited on a silicon/silicon dioxide (Si/SiO2) wafer. Thin-film solar cells are then deposited on the nickel layer utilizing standard fabrication techniques and covered with a layer of protective polymer. A thermal release tape is then attached to the top of the thin-film solar cells to augment their transfer off of the production wafer and onto a new substrate.

The solar cell is now ready to peel from the wafer. To remove it, the wafer is submerged in water at room temperature and the edge of the thermal release tape is peeled back slightly, allowing water to seep into and penetrate between the nickel and silicon dioxide interface.

The solar cell is thus freed from the hard substrate but still attached to the thermal release tape. Zheng and team heat the tape and solar cell to 90°C for several seconds, and the cell can then be applied to virtually any surface using double-sided tape or other adhesive. Finally, the thermal release tape is removed, leaving just the solar cell attached to the chosen substrate.

Tests have demonstrated that the peel-and-stick process reliably leaves the thin-film solar cells wholly intact and functional, Zheng says."There is also no waste. The (Si) wafer is typically undamaged and clean after removal of the solar cells, and can be reused."

While others have been successful in fabricating thin-film solar cells on flexible substrates before, those efforts have required modifications of existing processes or materials, notes Lee. "The main contribution of our work is that we have done so without modifying any existing processes, facilities or materials, making them viable commercially. And we have demonstrated our process on a more diverse array of substrates than ever before," Lee says. "Now you can put them on helmets, cell phones, convex windows, portable electronic devices, curved roofs, clothing – virtually anything," says Zheng.

2013 ASHRAE Winter Conference

Jan. 26–30/Dallas, Texas

The 2013 ASHRAE Winter Conference is popular not only for its technical and educational aspects, with its extensive tech program and learning courses, but for the social side of things, too. Reconnect with your old ASHRAE friends from chapters around the world, or make new connections and take advantage of networking opportunities. Kick things off with traditional backyard Texas barbeque at the Welcome Party; catch up with friends before the rush of the week begins. Be sure to find time for a social tour and explore artsy downtown Dallas, wild and western Fort Worth or historic Grapevine. And football fans, don't miss the tour of the Cowboys Stadium! After visiting the AHR® Expo, attending technical sessions and working in committee meetings, wrap up the week at Members' Night Out to reflect on the week and enjoy special surprise entertainment.

If you are interested in Conference sponsorship information please contact Greg Martin at gmartin@ashrae.org

Register at www.ashrae.org/dallas

ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference and AHR Expo in Dallas, TX

2 WAYS TO REGISTER

Internet: www.ashrae.org/dallascourses
Phone: Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Full-Day Professional Development Seminars

$485/$395 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs

The Commissioning Process in New & Existing Buildings
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Data Center Energy Efficiency
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Healthcare Facilities: Best Practice Design & Applications
Saturday, Jan 26– 8:00 a.m. to 3:00 p.m.

Complying with Standard 90.1-2010
Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Energy Modeling Best Practices and Applications: HVAC/Thermal
Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Half-Day Short Courses

$159/$119 ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs

Air-to-Air Energy Recovery Fundamentals
Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Humidity Control: Applications, Control Levels and Mold Avoidance
Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Air-to-Air Energy Recovery Applications: Best Practices
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Application of Standard 62.1-2010: Multiple Spaces Equations & Spreadsheet
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Combined Heat & Power: Design through Operations
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Understanding Standard 189.1-2011 for High-Performance Green Buildings
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Commissioning Process & Guideline 0
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Evaluating the Performance of LEED®-Certified Buildings
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Optimization of HVAC Systems & Components: Techniques & Real-World Examples
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Energy Management in New and Existing Buildings
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Avoiding IAQ Problems
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Designing Toward Net Zero Energy Commercial Buildings
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Understanding & Designing Dedicated Outdoor Air Systems
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

HVAC Design Training

Jan 14-18, 2013 • Jan 30-Feb 1, 2013 (Level I only) • Mar 18-22, 2013 • Jun 3-7, 2013 • Aug 12-16, 2013

HVAC Design: Level I - Essentials

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

Developed by industry-leading professionals, the workshop provides participants with advanced level information about designing, installing and maintaining HVAC systems that can be put to immediate use. Participants will gain an in-depth look into Standards 55, 62.1, 90.1, and 189.1 and the Advanced Energy Design Guides, as well as a range of other HVAC 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

Integrated design is changing the way buildings are designed, constructed and operated; different professionals each bring an important element to the table that results in a successful, sustainable building. Education is no different: Students bring the ambition, ASHRAE offers the financial support, and together they create an educational degree that will lay the foundation for a sustainable career.

Please help ASHRAE promote the availability of **more than 20 Society scholarships** for the 2013–2014 school year, available to high school seniors entering college through senior undergraduate engineering students.

- Two High School Senior Scholarships—$3,000 each
- Three Engineering Technology Scholarships—$3,000 each
- Six Regional and University-Specific Scholarships—$3,000–$5,000 each
- 11 Undergraduate Engineering Scholarships—$3,000–$10,000 each

"The support the scholarship provides has relieved an enormous worry about the cost of tuition. The Willis H. Carrier Scholarship has solidified my involvement in ASHRAE and motivated me to work hard to complete my degree so that I can contribute as much to the HVAC&R industry as Willis H. Carrier has."

Partrick McGrail, 2012-2013 recipient of the Willis H. Carrier Scholarship, secretary of the ASHRAE Kansas State Student Branch

Annual Application Deadlines:

December 1 for Undergraduate Engineering, Regional and University-specific Scholarships.

May 1 for Engineering Technology and High School Senior Scholarships.

Scholarships are awarded for the academic year following the application deadline beginning with the fall semester. For a list of available scholarships, complete eligibility requirements, and an application, visit www.ashrae.org/scholarships

Bi-State Chapter Officers and Governors 2012—2013

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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.

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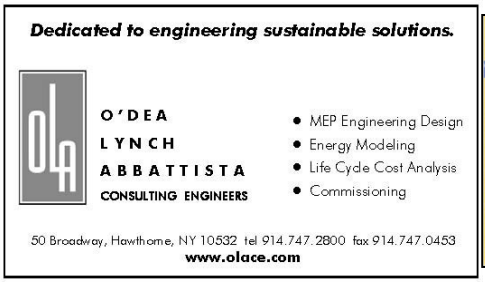
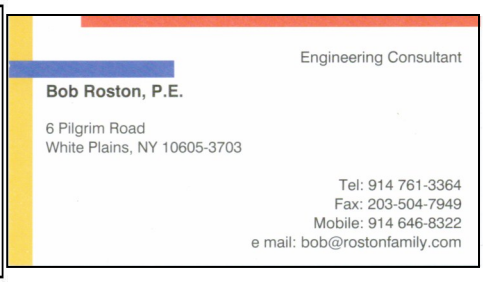
Notice to business card advertisers:

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





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.

Hackers Breached New Jersey Industrial HVAC System

Hackers broke into the industrial control system (ICS) of a New Jersey air-conditioning company, using a backdoor vulnerability in the Niagara AX Framework system, according to an FBI memo made public. The intruders first breached the company's ICS network, which gave them access to the mechanism controlling the company's own heating and air-conditioning systems. The company used the ICS for its own HVAC system, and also installed it for customers, which included banking institutions and other commercial entities. An IT contractor who worked for the company told the FBI that the company had installed its own control system directly connected to the Internet with no firewall in place to protect it.

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
January	1/9/2013	Student Activities	Matthew T. Murello, P.E. of Lewis S. Goodfriend & Associates Acoustics — The Good, the Bad, and the Ugly	
February	2/13/2013	Research Promotion		
March	3/13/2013	Membership Promotion	Hydraulic balancing seminar	
April	4/10/2013	Sustainability	Nahom A. Gebre, Esq., P.E. Risk Management Attorney Victor O. Schinnerer & Company, Inc. Engineering Design Liability Issues	
May	5/8/2013	Student Activities	Golf Outing	
June	6/12/2013	Student Scholarships	LEED building tour	

ASHRAE Volunteers Help Achieve Success for Standard 189.1 in National Defense Bill

In one of their last major actions of 2012, Members of Congress overwhelmingly passed the final version of the National Defense Authorization Act (NDAA) for Fiscal Year 2013 (H.R.4310).The passage of this bill, which contains no restrictions on the use of U.S. Department of Defense (DOD) funds for ANSI/ASHRAE/USGBC/IES Standard 189.1 – Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings, represented a major victory for ASHRAE and supporters of Standard 189.1. This success was largely due to the efforts of ASHRAE volunteers, who helped educate key Congressional staff on the importance and cost-effectiveness of the Standard. ASHRAE also coordinated its efforts with a number of technical societies and stakeholder organizations to help remove this restriction from the final bill.

Reference to Standard 189.1 is specifically mentioned in the joint statement from the managers of the bill; the joint statement is used to help convey legislative intent: "The conferees note that while there is no prohibition limiting the use of funds for implementation of ASHRAE building standard 189.1, they expect DOD to not provide broad, sweeping policy guidance on the use of ASHRAE building standard 189.1 but rather utilize this standard on a project by project basis to maximize savings based on geographic locations and returns on investment through water and energy efficiencies, among other considerations."