



Bi-State Chapter Exchanger

Volume XXVI, Issue 4

Serving the Hudson Valley and Western Connecticut

December 2012

Inside this Issue

President's Message	2
Historical Note	2
Research Promotion	3
Officers and Governors	8
Region 1 Executive Committee	9
Employment Ads and Sponsorship	10
Upcoming Meetings	11
Society Updates	12-13

Upcoming Events

- **January 9**
Acoustical Seminar
- **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 December 12, 2012

1 PDH Credit Approved

Presentation: Seismic Restraint of Mechanical Systems

James R. Tauby P.E., Chief Executive Engineer, Mason Industries, Inc. will go over how mechanical systems are seismically braced. This includes piping, ductwork, suspend equipment and floor supported equipment. Other topics discussed are housekeeping pads, building codes, anchorage and specifications. Typical details from the ASHRAE Manual "A Practical Guide to Seismic Restraint" will be discussed.

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 December! We are finishing up 2012 and halfway through our ASHRAE 21012-13 year. I hope the programs we have offered were beneficial to all. Last month's tour of the Aerco boiler manufacturing plant in Blauvelt was fantastic! We had a first-hand look at how the boiler components were assembled and the final unit tested. Much thanks to Aerco and to Larry Hurlburt of GA Fleet for helping to arrange this event.

This month we feature a presentation by ASHRAE Distinguished Lecturer James Tauby on Seismic Restraint and Vibration Isolation. This should be an informative presentation.

We are also kicking off our Research Promotion campaign for this year. James Kolk is our Research Promotion Chair. We are hoping to reach our goal again this coming year – stay tuned for more details from James.

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

On behalf of the Officers and Board of Governors, all the best to you and your families for a happy and healthy holiday season!

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

Historical Note — Bob Roston, Bi-State Historian

Odors in Water

It is well known that the water, melted ice, which passes through the drain pipe of the ordinary refrigerator, carries with it the congealed odors from the (foods) placed there for the purpose of keeping them cool.

Certain families in my neighborhood save the refrigerated water and because it is soft, use it in doing the family washing. By the end of the week, this water contains great ribbons of white slime... I know of one family who has been using this kind of water for the past two years... and every member of the family has been sick; some of them from the time the water was first used and others were taken sick later.

— Letter from D. W. Sprague to Scientific American Supplement, Jan. 13, 1912

Research Promotion Fundraising Campaign

Hello everybody, my name is James Kolk but some of you may know me as the local Victaulic representative for Westchester. I have been with Victaulic for close to seven years. I have also been a member of the ASHRAE Bi-State Chapter for those same seven years. This year I have decided to get more involved and accept the position as Chairman of the Research Promotion committee.

Decembers' meeting will kick off the annual Research Promotion fundraising campaign which means I will be reaching out to all of you to ask for your help in reaching our goal for 2013. The funds that are collected will be used to help reach the research goals listed in the "ASHRAE Research Strategic Plan 2010-2015."

I am looking forward to seeing everyone in December and working with all of you to make 2013 a successful year for ASHRAE Research.

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.

ASHRAE Responds 'Present' in STEM Education Efforts

The United States produces approximately 74,000 engineers a year, a number that has remained essentially flat for the past two decades. With the impending retirement of the Baby Boomer generation, an anticipated shortage of engineers will affect virtually every aspect of our environment, society and lifestyle. ASHRAE is increasing its efforts in expressing the importance of science, technology, engineering and math (STEM) education – most notably, in the area of public policy. To accomplish this, ASHRAE has joined the STEM Education Coalition. The Coalition works to inform federal, state and local policymakers on the critical role that STEM education plays in keeping the U.S. competitive in the global marketplace, as well as in guaranteeing future economic prosperity. The Coalition advocates for policies that will improve STEM education and provide greater access to STEM programs. As members of the Coalition's Leadership Council, ASHRAE will work with other member organizations to advance the Coalition's policy aims through direct advocacy and grassroots education efforts.

"I took an interest in engineering when I was very young, and my science and math classes in school only fueled that curiosity." Tom Watson, ASHRAE president, said. "Working with the STEM Education Coalition demonstrates ASHRAE's commitment to education, and we are eager to be a part of high-level discussions and collaboration to promote such important educational topics."

ASHRAE hopes to unite its grassroots efforts with other organizations of the coalition that have similar goals at the state and local level. For example, ASHRAE encourages policymakers to implement the following recommendations:

- Increase federally funded research to improve teaching and learning of STEM concepts and critical thinking skills.
- Recruit, train and retain qualified STEM teachers through the development of programs recognizing educators who excel in STEM education, and incentives that encourage the best and brightest scientists and engineers to teach.
- Foster partnerships among educational institutions, industry, and non-profit organizations and their members.
- Encourage the adoption of curriculum standards that cultivate high student performance; the development of curricula that foster creativity, experiential problem solving and critical thinking; and the development of assessments aligned with these standards and curricula.
- Create opportunities and incentives for women and minorities to pursue STEM coursework and careers.

ASHRAE also provides resources for its members to reach out to schools and students to promote STEM education. An online resource guide for kindergarten through 12th grade is available at www.ashrae.org/ashraek12. The site includes suggested classroom projects, career videos from the Society and materials for teacher use.

MetLife's Data Center in Rensselaer, NY Receives EPA's ENERGY STAR Certification

MetLife, Inc. has announced that its Rensselaer Information Systems Center (RISC) has earned the U.S. Environmental Protection Agency's (EPA) ENERGY STAR certification, making it among fourteen data centers in the country with a 2012 designation and the first data center located in New York to be certified. The Energy Star certification signifies that the building is not only energy efficient but also meets strict performance levels set by the EPA.

Projects related to the ENERGY STAR certification included installing boiler system controls to increase energy efficiency and reduce emissions; upgrading lighting control panels to save energy; installing LED lighting in the parking lot, using waterless technology; and implementing virtualization technology, which allows the facility to share resources and save costs in energy, hardware, software licensing and IT infrastructure maintenance. Carbon neutrality has been achieved at the data center.

To date, all 15 of MetLife's U.S. owned and occupied administrative offices are Energy Star certified and nine are LEED certified, including two global facilities, located in India and Turkey. In addition to its Energy Star and LEED certifications, MetLife has reduced its carbon emissions by more than 90 percent since 2005, invested more than \$2.5 billion in renewable energy projects and has purchased more than 53 percent of its overall electricity through the use of renewable energy.

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 404-838-8400 (worldwide)

Full-Day Professional Development Seminars

\$485/\$395 ASHRAE Member -- Earn 8 PDHs/AIA LUs or .8 CEUs

The Commissioning Process in New & Existing Buildings

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.

Data Center Energy Efficiency

Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Energy Modeling Best Practices and Applications: HVAC/Thermal

Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Healthcare Facilities: Best Practice Design & Applications

Saturday, Jan 26 – 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

Air-to-Air Energy Recovery Fundamentals

Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Commissioning Process & Guideline 0

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Humidity Control: Applications, Control Levels and Mold Avoidance

Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Evaluating the Performance of LEED®-Certified Buildings

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Air-to-Air Energy Recovery Applications: Best Practices

Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Optimization of HVAC Systems & Components: Techniques & Real-World Examples

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

Application of Standard 62.1-2010:

Multiple Spaces Equations & Spreadsheet

Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Energy Management in New and Existing Buildings

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

Combined Heat & Power: Design through Operations

Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Avoiding IAQ Problems

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

Understanding Standard 189.1-2011 for High-Performance Green Buildings

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Designing Toward Net Zero Energy Commercial Buildings

Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems

Monday, Jan 28 – 2:45 p.m. to 5:45 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.

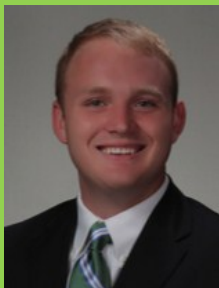
Visit www.ashrae.org/hvacdesign to register



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

Position	First Name	Last Name	Email	Phone	Fax
Officers					
President	John	Fusco	jfusco@olace.com	(914) 747-2800	(914) 747-0453
President-Elect	Michael	Circosta	mjcarmonk@optonline.net		
Vice President	Cliff	Konitz	c.konitz@verizon.net	(845) 297-5864	(845) 297-5864
Secretary	Brendan	Smith	bsmith@lynstaar.com	(914) 741-1290 ext 17	
Treasurer	Dennis	LaVopa	dlavopa@dFlowTech.com	(845) 265-2828	(845) 265-2745
Governors					
BOG (term ends June 2015)	Terry	Connor	Terry.Connor@jci.com	(914) 593-5223	(914) 593-5201
BOG (term ends June 2015)	Brendan	Smith	bsmith@lynstaar.com	(914) 741-1290 ext 17	
BOG (term ends June 2015)	James	Dolan	jdolan@olace.com	(914) 747-2800	(914) 747-0453
BOG (term ends June 2014)	Steven	Abbattista	sabbattista@olace.com	(914) 747-2800	(914) 747-0453
BOG (term ends June 2014)	Cliff	Konitz	c.konitz@verizon.net	(845) 297-5864	(845) 297-5864
BOG (term ends June 2014)	Joseph	Trongone	jatrong@optonline.net	(914) 741-1290	
BOG (term ends June 2013)	Michael	Circosta	mjcarmonk@optonline.net		
BOG (term ends June 2013)	Dennis	LaVopa	dlavopa@dFlowTech.com	(845) 265-2828	(845) 265-2745
BOG (term ends June 2013)	Robert	Roston	bob@rostonfamily.com	(914) 761-3364	(203) 504-7949
Chapter Delegate	Brendan	Smith	bsmith@lynstaar.com	(914) 741-1290 ext 17	
Chapter Alternate					
Committee Chairs					
Research Promotion	James	Kolk	jkolk@victaulic.com		
Student Activities	Nicholas	Salomone	nicksalomone@gmail.com		
Membership Promotion	James	Dolan	jdolan@olace.com	(914) 747-2800	(914) 747-0453
Refrigeration	John	Fusco	jfusco@olace.com	(914) 747-2800	(914) 747-0453
Webmaster	Cliff	Konitz	c.konitz@verizon.net	(845) 297-5864	(845) 297-5864
Newsletter Editor	Michael	Gordon	gordonm@emfcontrols.com	(914) 747-1007	(914) 747-1054
Historian	Robert	Roston	bob@rostonfamily.com	(914) 761-3364	(203) 504-7949
Reception	Joseph	Trongone	jatrong@optonline.net	(914) 332-7658	
Administrator	Cliff	Konitz	c.konitz@verizon.net	(845) 297-5864	(845) 297-5864
Golf	Steven	Abbattista	sabbattista@olace.com	(914) 747-2800	(914) 747-0453

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 2012-13 Executive Committee and Society Contacts

DRC – Director & Regional Chair

Joseph L Furman
Automated Logic
16 Country Way
Wallingford, CT 06492-5356
W: (203)678-2208
joe.furman@automatedlogic.com

ARC – Assistant Regional Chair & Treasurer

Spencer Morasch
Jersey Central Power & Light
331 Newman Springs Rd
Bldg. 3 Suite 325
Red Bank, NJ 07701-5688
W: (732)212-4133
smorasch@firstenergycorp.com

Nominating Committee Member

Emery Otruba, P.E.
Evergreen Engineering
262 Johnson Hill Rd
Hoosick Falls, NY 12090-4615
W: (518)225-2771
otruba@verizon.net

Nominating Committee Alternate

Russell J Stuber
U & S Services Inc
233 Fillmore Ave Ste 11
Tonawanda, NY 14150-2316
W: (716)693-4490
stuberr@usservicesinc.com

Nominating Committee 2nd Alternate

Darcy A Carbone
Stebbins-Duffy, Inc.
6 Damon Rd
Medford, MA 02155-2903
W: (617)957-2567
dcarbone@stebbinsduffy.com

RVC Membership Promotion

Richard E Vehlouw, PE
NYS OGS BU1
33Rd Fl Corning Tower
Albany, NY 12242-0001
W: (518)474-2471
Rev1969@gmail.com

RVC Research Promotion

Chris Phelan
Thermco
228 Scoles Ave
Clifton, NJ 07012
W: (617)957-2567
chrishphelan@thermcoreps.com

RVC Chapter Technology Transfer

Alexander Weiss, PE
8 Bergen Beach Pl
Brooklyn, NY 11234-5743
W: (718)251-1154
weisseng@gmail.com

RVC Student Activities

Om Taneja, PhD, Dr.
USDSA
79 Summit Dr
Basking Ridge, NJ 07920-1960
W: (212)264-4465
om.taneja@gsa.gov

Regional Chapter Programs Chair

Peter Oppelt
R.F. Peck Co.
191 Moorland Rd
Rochester, NY 14612-3421
W: (585)227-1720
poppelt@rfpeck.com

Regional Refrigeration Chair

Mark Cambria, PE
M/E Engineering, PC.
433 State Street, Suite 410
Schenectady, NY 12305
(W) 518.533.2171
mcambria@meengineering.com

Regional Historian

Alexander Weiss, PE
8 Bergen Beach Pl
Brooklyn, NY 11234-5743
W: (718)251-1154
weisseng@gmail.com

Regional Electronics Communication Committee Chair & Newsletter Judge

Heather L. Platt, P.E.
SCMC, LLC.
PO Box 1031
Niagara Falls, NY 14304
W: (716)255-1462
HPlatt@SenecaCM.com

Regional Electronics Communication Committee Alternate

Kevin Gallen, P.E.
Gallen Engineering, PC

Regional Representative

Garry N. Myers
WSP Flack + Kurtz
73 Bonnie Way
Allendale, NJ 07401-1127
W: (212)951-2815
Garry.Myers@wspfk.com

Regional Young Engineers in ASHRAE

Cara S Martin
Novus Engineering
25 Delaware Ave.
Delmar, New York 12054
W: (518)439-8235
cmartin@novusengineering.com

Director of Member Services

Carolyn Kettering
ASHRAE
1791 Tullie Circle, N.E.
Atlanta, GA 30329
404.636.8400
ckettering@ashrae.org

Director of Communications and Publications

Jodi Scott
ASHRAE
1791 Tullie Circle, N.E.
Atlanta, GA 30329
404.636.8400
jdunlop@ashrae.org

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
(914) 403-4702 Cell
greenwoodw@emfcontrols.com

Energy Management of Facilities, Inc.
5 West Cross St., Suite 5G
P.O. Box 176
Hawthorne, NY 10532
http://www.emfcontrols.com

Partner of
Schneider Electric

Certified Energy Management System Contractor
Facility Automation • HVAC Controls • Security • Access Control • CCTV

Dennis LaVopa
Tel 845-265-2828
Fax 845-265-2745



2421 Rt. 52 Hopewell Jct., NY 12533
www.dlflowtech.com
dLaVopa@dlflowtech.com



a.c.i.
Facility Automation
Access Control
Digital Video/CCTV
Systems Integration
24 Hour Monitoring

Preston M. Bruenn
President

578 Commerce Street, Thomwood, NY 10594
PH: 914-769-8880 FAX: 914-769-2753
pbruenn@automatedcontrollogic.com

Dedicated to engineering sustainable solutions.



**O'DEA
LYNCH
ABBATTISTA**
CONSULTING ENGINEERS

- MEP Engineering Design
- Energy Modeling
- Life Cycle Cost Analysis
- Commissioning

50 Broadway, Hawthorne, NY 10532 tel 914.747.2800 fax 914.747.0453
www.olace.com

Engineering Consultant

Bob Roston, P.E.

6 Pilgrim Road
White Plains, NY 10605-3703

Tel: 914 761-3364
Fax: 203-504-7949
Mobile: 914 646-8322
e mail: bob@rostonfamily.com

**chimney
DESIGN
solutions**

800-685-7077 FAX: 212-685-4777
[chimney design solutions.com](http://chimneydesignsolutions.com)



D.P. Wolff Inc.
Service & Mechanical Contractors

Vikash Patel, LEED AP ■ Vice President
vpatel@dpwolff.com

143 Bedford Road ■ Katonah, New York 10536
914/767.0515 ■ 212/689.7801 ■ 914/767.3596 FAX
914/767.0515 24 HOUR EMERGENCY



Atlantic Westchester, Inc.

- HVAC Services
- Building Management Systems
- Energy Solutions

☎ 914-666-2268
☎ 914-666-8344

AtlanticWestchester.com 264 Adams St. | Bedford Hills | NY 10507



LAWRENCE STURGIS
EXECUTIVE VICE PRESIDENT

1 PAULDING STREET
ELMSFORD, NY 10523

PHONE: 914-592-1776
FAX: 914-592-1904
e mail: larrysturgis@gmail.com

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

SHEET METAL AND
ROOFING
CONTRACTORS
OF
SOUTHEASTERN,
NY
SMACNA, SENY

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.

R-22 Use Continues in Condensers Despite Phaseout

Since 2010, the Environmental Protection Agency has banned the sale of new air-conditioning units containing R-22 (also known as HCFC-22), and has promoted recycling of the gas from old machines so it will not be released. However, many residential repair companies remedy AC leaks by swapping faulty condenser units with replacements that still use the refrigerant. As a result, homes will continue relying on an environmentally damaging coolant for years. There are 140 million central air units still running on R-22 in the United States.



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
December	12/12/2012	Research Promotion	ASHRAE Distinguished Lecturer James R. Tauby P.E. — Seismic Restraint and Vibration Isolation	
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	

Controlling Heat Flow Through a Nanostructure

Thermoelectric devices, which can harness temperature differences to produce electricity, might be made more efficient thanks to new research on heat propagation through structures called superlattices. The new findings show, unexpectedly, that heat can travel like waves, rather than particles, through these nanostructures: materials made up of layers only a few billionths of a meter in thickness.

Heat — the vibration of atoms and molecules in a material — usually travels in a “random walk,” which is difficult to control. The new observations show a very different pattern, called coherent flow, which is more like ripples that move across a pond in an orderly way.

This opens the possibility of new materials in which the flow of heat could be precisely tailored — materials that could have important applications. For example, such research might lead to new ways of shedding the heat generated by electronic devices and semiconductor lasers, which hampers performance and can even destroy the devices.

The new work, by graduate student Maria Luckyanova, postdoc Jivtesh Garg and professor Gang Chen, all of MIT’s Department of Mechanical Engineering — along with other students and professors at MIT, Boston University, the California Institute of Technology and Boston College — was reported recently in the journal *Science*.

Statements made in this publication are not expressions of the Society or of the Chapter and may not be reproduced without special permission of the chapter.

ASHRAE Honors and Awards – Opportunities for Recognition of Outstanding Achievements

Submitted by J. Thomas Sobieski,

2012-13 Honors and Awards Committee Personal Awards Subcommittee Chair

Each year, ASHRAE recognizes professionals who are making strides in the industry. Do you know that ASHRAE's awards fall into six categories?

1. Personal Honors
2. Personal Awards for General Society Activities
3. Personal Awards for Specific Society Activities
4. Paper Awards
5. Society Awards to Groups or Chapters
6. Chapter and Regional Awards

There are two important deadlines for submission of nominations to the Society Honors & Awards (H&A) Committee:

December 1:

Honorary Member

Fellow

F. Paul Anderson

Distinguished Public Service

Hall of Fame

Pioneers of the Industry



May 1:

Louise & Bill Holliday

Distinguished Fellow

Andrew T. Boggs Service

Distinguished Service (DSA)

Exceptional Service (ESA)

Distinguished Fifty-Year Member

There are other Awards, such as the E. K. Campbell Award of Merit, the Lincoln Bouillon Award and the John F. James International Award to name a few, that are recommended by selecting bodies other than the H&A Committee. Details such as criteria, selecting body, other deadlines, required documentation and nomination forms about all awards can be found at: <http://www.ashrae.org/honors> in easy to read text, via spreadsheet and PowerPoint format. If you need additional information, guidance and/or have a question(s), please feel free to contact Rosy Douglas at ASHRAE Headquarters, rdouglas@ashrae.org.

Are you aware that you can “self nominate” for the Distinguished Service Award (DSA) and the Exceptional Service Award (ESA)? Since these awards are granted on the basis of a point count for service to ASHRAE, you are the most knowledgeable person to determine your past services to the Society. Just be sure that your “bio” (ASHRAE Biographical Record) on the website is up to date and accurate (no double counts such as points for member and chair of the same committee for the same time period) and that your “bio” list starts and end dates for each activity.

Remember that members can only be recognized for services and/or outstanding technical achievements by the granting of ASHRAE Honors and Awards if members take the time and effort to make nominations. For forms and information, visit the H&A Web page at www.ashrae.org/honors.

Dallas Conference News



ASHRAE Conference in Dallas – Advance Registration Ends December 31!

Advance registration for ASHRAE's 2013 Winter Conference, Jan. 26-30, Dallas, Texas closes on Dec. 31. The technical program features more than 200 sessions addressing energy conservation; facility management; standards, guidelines and codes; HVAC&R systems and equipment; HVAC&R fundamentals and applications; and refrigeration. One particular track of note is Industrial and Transportation Ventilation, focusing on the industrial and manufacturing sector prevalent in Texas. The full Technical Program offers the opportunity to earn a year's worth of PDHs, NY PDHs, AIA LUs and LEED AP credits and runs Jan. 27-30.

Visit the YEA Hospitality Suite in Dallas!

Attention young professional members age 35 and younger! You are invited to visit the YEA Hospitality Suite on Sunday, Jan. 27, from 4-7 p.m. The suite offers social and networking opportunities and light refreshments will be served.

For more information on Young Engineers in ASHRAE and their activities, please visit www.ashrae.org/yea.



Student/ Young Engineers in ASHRAE (YEA) Mixer, 5:00 – 6:30 PM, FREE w/Registration

As students transition from college to the professional world, this opportunity to meet and greet young professionals in ASHRAE provides students with the opportunity to get in-depth information about the industry and growth opportunities within ASHRAE. Food, drinks and prizes will be available. The Student/YEA mixer is Saturday January 26.

Shop the ASHRAE Merchandise Store Online and in Dallas

The ASHRAE Merchandise store has added several new items to both the online store and the live location at the Dallas Winter Conference. If you need gifts for a chapter event or for a colleague, the ASHRAE Merchandise Store is the place to shop.

Here are some new items you can buy today!

[ASHRAE Sport Cup](#) - \$10

[ASHRAE Baseball Cap in Pink and Stone!](#) - \$15 each

[ASHRAE Men's Black Golf Shirt](#) - \$30

[ASHRAE Men's Blue Golf Shirt](#) - \$30



See what's new at www.ashrae.org/merchandise