



Upcoming Events

- **May 12th** -
Infrared Thermography
- **June 16th** -
Golf Outing

ASHRAE Bi-State Chapter Hosts:

www.ashraeBiState.org

Yonkers Mayor Phil Amicone, P.E.

Wednesday April 14, 2010

6:00pm - 9:00pm



Join us for a presentation by Mayor Phil Amicone. He will speak on the relationship between politics and engineering and discuss the construction and developments in Yonkers. There will also be a Tech Session on Dedicated Outdoor Air Systems good for 1.0 PDH.

\$25 for ASHRAE Members

\$30 for Non Members

RSVP are mandatory by April 9th
Contact Nick Salomone:
914.919.3140 info@ashraebistate.org

Zuppa Restaurant

59-61 Main Street, Yonkers, NY 10701
www.zupparestaurant.com



Attendees must be 21 Years or Older to Consume Alcoholic Beverages - Be Safe - Don't Drink and Drive!

Inside this issue:

| | |
|----------------------------------|----|
| President's Message | 2 |
| Historical Notes | 2 |
| Programs Report | 3 |
| 2010-2011 Ballot | 5 |
| Research Promotion | 6 |
| Officers and Governors Directory | 7 |
| Region I Executive Committee | 8 |
| Employment Ads & Sponsorship | 9 |
| Next Meeting Information | 10 |

In Memorium Stephen LePorisz

We are deeply saddened by the untimely passing of Stephen LePorisz, the Chapter's President Elect. Steve died on March 15th 2010, in an ATV accident, while vacationing in Arizona; he was 27 years old.

In a very short time, Steve had a significant impact on the Chapter. His energy, charisma and leadership were largely responsible for the positive changes we are all enjoying, in the chapter. Steve was a special person, he is greatly missed.

His family and friends have established a scholarship fund in his name. Contributions can be made by sending a check, payable to "Manhattan College;" indicate "Stephen N. LePorisz Scholarship fund" in the memo field, to P.O. Box 208, Yonkers, NY 10710.

President's Message

By Dennis LaVopa

In addition to being a member of ASHRAE for 12 years, I have also been a proud member of the National Environmental Balancing Bureau (NEBB) for 25 years. I believe there are strong ties between the two organizations and it is important for the HVAC community to understand how this partnership has lead to increased sustainability and professional service.

During the 2009 NEBB Annual Convention, ASHRAE President Gordon Holness addressed the audience on his presidential theme, *Sustaining Our Future by Rebuilding Our Past*. He gave his presentation at the Opening Session of the NEBB Annual Meeting in Oklahoma City, Oklahoma, where he was presented with a check for \$10,000 from NEBB. NEBB has enjoyed a long-time relationship with ASHRAE, with many NEBB Certified Professionals being ASHRAE members, and at last count, more than a dozen are ASHRAE Fellows. There have been NEBB Certified Professionals on the ASHRAE National Board of Directors for many years including the ASHRAE National President for 1990-1991. The two organizations have recently have adopted a Memorandum of Understanding to promote expansion of the relationship to meet mutual goals and the current needs of the HVAC industry. NEBB will continue to support ASHRAE committees and special projects, as well as explore with ASHRAE ways to promote sustainability through commissioning and retro-commissioning.

NEBB exists to assist design professionals in delivering high performance buildings. This is done through the use of NEBB Procedures, Certified Professionals and a Quality Assurance Program. For more information go to www.nebb.org or www.dLFlowTech.com to see a reprint of *What Makes NEBB Different from the Rest? - The Quality Assurance Program*.

Dennis LaVopa
Bi-State Chapter President



Historical Notes — Bob Roston, Bistate Historian

“There is reason to believe that when suitable domestic air-conditioning apparatus is actually introduced to the home owner it will be but a matter of a short time before it becomes extremely popular. The first cost of this equipment will be so important as the terms under which it is sold. Although a great many oil burners are sold for cash it was not until they were offered on an installment plan that there was a market increase in their sales.”

— J.E. Bullard, June 1932, “Cooling our homes,” in the *Aerologist*.

DOE Releases New Estimates of Wind Energy Potential

The Department of Energy (DOE) recently released new estimates of the U.S. potential for wind-generated electricity, tripling previous estimates of the size of the nation's wind resources. The new study, which was carried out by the National Renewable Energy Laboratory (NREL) and AWS Truewind, finds that the contiguous 48 states have the potential to generate up to 37 million gigawatt hours annually. By contrast, total U.S. electricity generation from all sources was roughly 4 million gigawatt hours in 2009. The estimates show the total energy yield that could be generated using current wind turbine technology on the nation's windy lands.

Along with the state-by-state estimates of wind energy potential, NREL and AWS Truewind have developed wind resource maps for the United States and for the contiguous 48 states that show the predicted average wind speeds at an 80-meter height (http://www.windpoweringamerica.gov/wind_maps.asp). The wind resource maps and estimates provide local, state, and national policymakers with accurate information about the nature of the wind resource in their areas and across the nation, helping them to make informed decisions about wind energy in their communities.

The new estimates reflect substantial advances in wind turbine technology that have occurred since DOE's last national wind resource assessments were conducted in 1993. For example, previous wind resource maps showed predicted average wind speeds at a height of 50 meters, which was the height of most wind turbine towers at the time. The new maps show predicted average wind speeds at an 80-meter height, the height of today's turbines. Because wind speed generally increases with height, turbines built on taller towers can capture more energy and generate more electricity. The new estimates also incorporate updated capacity factors, reflecting improvements in wind turbine design and performance.

Walmart Sets GHG Reduction Goal

Walmart plans to eliminate 20 million metric tons of greenhouse gas (GHG) emissions from its global supply chain by the end of 2015. This represents one and a half times the company's estimated global carbon footprint growth over the next five years. Walmart is asking its suppliers to reduce GHGs from products in the sourcing of raw materials, manufacturing, transportation, customer use and end-of-life disposal phases of product lifecycles. Walmart says that independent companies will be used to ensure its goals are achieved.

Committee Reports

Programs

Enzo Carlesimo, Acting Chairman

The monthly meeting will be held on April 14th at the Zuppa Restaurant and Lounge in Yonkers, New York. We have **one** CEU pending for the evening. The Technical Session will be given by Harry Milliken of Desert-Aire. Harry will be discussing the design and operation of dedicated outdoor air systems (DOAS). The Main Presentation will be given by Philip Amicone, PE, the Mayor of Yonkers. Mayor Amicone will be discussing the role engineering plays in politics and government, as well as the construction projects and infrastructure upgrades taking place in downtown Yonkers. We hope to see you all there on the 14th!

Membership Promotion

Enzo Carlesimo, Chairman

We had another fairly sizeable turn-out of mechanical engineering students from Manhattan College (MC) at last month's meeting. Hopefully, a majority of these students were pleased with what they saw so that they will consider joining our Chapter. Once again, we would like to extend our gratitude to Dr. Litkouhi and the student officers of MC's ASHRAE chapter for promoting the Bi-State Chapter around campus. This coming Sunday, April 11th, we will be representing the Chapter at the Lower Hudson Valley Engineering Expo at the Tappan Zee High School. There we hope to spread the word about our Chapter, and the HVAC&R industry as a whole, to the high school students in attendance. After all, it is never too early to start learning about the exciting and constantly evolving world of HVAC&R.

Senator Feinstein Highlights ASHRAE in Congressional Record Remarks

The U.S. Senate passed legislation that could make air travel a little less stressful and much healthier by calling for the Federal Aviation Administration (FAA) to conduct a study of air quality in the cabins of U.S. airliners. The measure to protect the flying public from harmful toxins in cabin air planes was put forth by Senator Dianne Feinstein's (D-Calif.) and approved by the Senate on March 22.

In her address to the Senate, Feinstein supported her argument for further study of the quality and safety of cabin air with a 2009 letter from ASHRAE Presidential Member William Harrison, in which he called on the FAA to "investigate and determine the requirements for bleed air contaminant monitoring and solutions to prevent bleed air contamination."

"I agree with the ASHRAE recommendation that we need to study this problem and take steps to protect public health and safety," Feinstein said, in presenting the measure as an amendment to the FAA Air Transportation Modernization and Safety Improve Act. "I offer this amendment in order to implement ASHRAE's very sound recommendations, and I encourage my colleagues to support it."

In the letter, Harrison urged the FAA to consider adopting ASHRAE Standard 161-2007, *Air Quality Within Commercial Aircraft*, which covers issues such as temperature, cabin pressure, air contaminants and ventilation rates. The standard also addresses chemical, physical and biological contaminants that could affect air quality as well. Methods of testing are provided for ensuring compliance with the standard's requirements. Harrison's letter was submitted to be included in the Congressional record.

"The Senate legislation is a move in the right direction for aircraft passenger safety and comfort," Doug Read, program director of government affairs for ASHRAE, said. "The Society works hard to ensure federal legislation captures the important work and expertise of ASHRAE in all aspects, and utilizes this expertise to advance and protect the needs of the general public. Standard 161 is an example of ASHRAE's expertise in other areas and provides yet another avenue towards this goal." As an amendment to the FAA Air Transportation Modernization and Safety Improvement Act, the measure will "ensure that the FAA has the information it needs to protect the public from harmful toxins in ventilation systems on commercial aircraft."

"ASHRAE is pleased to hear of this amendment, we have long urged for this issue to be addressed by the FAA," ASHRAE President Gordon Holness said. "Raising awareness to the necessity of high standards for indoor air quality, whether in a building or an airplane, helps to further the Society's mission of serving humanity through advancing HVAC&R technology. ASHRAE will continue to reach out to FAA and offer Standard 161 as guidance as it begins its investigations in cabin air quality, with the hope that this results in stronger regulations to control indoor air quality in aircraft cabins," he said.

ICC, ASHRAE, USGBC and IES Announce Nation's First Set of Model Codes and Standards for Green Building in the U.S.

What do organizations representing building safety professionals, energy and lighting engineers, green building practitioners, architects and technical standards developers have in common? They have all come together to green the nation's built environment by establishing a comprehensive model green building code designed to rapidly advance green building practice across the U.S.

The International Code Council (ICC), the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), the U.S. Green Building Council (USGBC), and the Illuminating Engineering Society of North America (IES) announced the launch of the International Green Construction Code (IGCC), representing the merger of two national efforts to develop adoptable and enforceable green building codes. The IGCC provides the building industry with language that both broadens and strengthens building codes in a way that will accelerate the construction of high performance green buildings across the U.S.

For decades, ICC and ASHRAE have worked to develop codes and standards that become the industry standard of care for the design, construction, operations and maintenance of residential and commercial buildings in the U.S. and internationally. In coordination with the efforts of ICC and ASHRAE, USGBC has been leading a nationwide green building movement centered on the LEED Green Building Rating System since LEED was launched in 2000. The convergence of these efforts in the IGCC is perhaps the most significant development in the buildings industry in the past 10 years.

Leveraging ICC's unrivaled delivery infrastructure to reach all 50 states and more than 22,000 local jurisdictions and ASHRAE, USGBC and IES's technical strengths, this partnership will accelerate the proliferation of green building codes and standards developed jointly by ICC, ASHRAE and USGBC and IES, across the country and around the globe. The newly launched International Green Construction Code (IGCC) establishes a previously unimaginable regulatory framework for the construction of high performance commercial buildings that are safe, sustainable and by the book.

A landmark addition to the technical content of the IGCC is the inclusion of ANSI/ASHRAE/USGBC/IES Standard 189.1, *Standard for the Design of High Performance, Green Buildings Except Low-Rise Residential Buildings*, as an alternate path of compliance. Standard 189.1 is a set of technically rigorous requirements, which like the IGCC, covers criteria including water use efficiency, indoor environmental quality, energy efficiency, materials and resource use, and the building's impact on its site and its community. Standard 189.1 was written by experts representing all areas of the building industry, who contributed tens of thousands of man hours. Developed in a little over three years, the standard underwent four public reviews in which some 2,500 comments were received.

"The emergence of green building codes and standards is an important next step for the green building movement, establishing a much-needed set of baseline regulations for green buildings that is adoptable, usable and enforceable by jurisdictions," said ICC Chief Executive Officer Richard P. Weiland. "The IGCC provides a vehicle for jurisdictions to regulate green for the design and performance of new and renovated buildings in a manner that is integrated with existing codes as an overlay, allowing all new buildings to reap the rewards of improved design and construction practices."

"Bringing together the code expertise of ICC with technical expertise of ASHRAE to create a comprehensive green building code will accelerate our transformation to more sustainable building practices," Gordon Holness, ASHRAE president, said. "ASHRAE is committed to providing the design guidance building designers and engineers need to reduce the energy consumption of buildings."

"The U.S. Green Building Council's mission is market transformation and we've long recognized the need to reach beyond the market leaders served by LEED to accomplish this goal," said Rick Fedrizzi, President, CEO and Founding Chairman of the U.S. Green Building Council. "Broadening the scope of the codes and establishing a higher floor allows us to continue to raise the ceiling, a critical factor in how the building industry is working to mitigate climate change. We are thrilled to see this set of complementary green building codes and standards; our organizations working collaboratively will advance green building nationwide in a way that was never before possible."

"IES is pleased to support the collaborative efforts of the organizations which demonstrate expertise in code and technical standards development in this comprehensive green building code," said Rita Harrold, IES Director of Technology. "IES looks forward to ongoing guidance for sustainable building practices."

Recently, ASHRAE, IES and USGBC joined ICC at its Washington, DC headquarters as they and their co-authors (the American Institute of Architects and the American Society for Testing Materials) launched the IGCC. Standard 189.1 and the IGCC are available for wide distribution, providing much-needed content, code language, and vision for more safe and sustainable future. The organizations are also working together to advance related education and advocacy efforts to promote adoption, enforcement and compliance with the IGCC codes that will pave the way for green buildings and neighborhoods, while creating jobs and strengthening the economy. For more information on IGCC: <http://www.iccsafe.org/cs/IGCC/Pages/default.aspx> and on Standard 189.1: <http://www.ashrae.org/greenstandard>.

ASHRAE Bi-State Members may vote on 2010–11 officers and directors with this ballot.

ASHRAE Bi-State follows the policy that governs nominations for Society officers and directors; ***the office shall seek the person, rather than the person seek the office.*** For this reason, only one name appears on the ballot for each position to be filled.

Nominations for officers and directors are made by the Nominating Committee.

Additionally, any voting member of ASHRAE Bi-State may write in the name of an individual for any office.

Ballots for 2010–11 officers and directors must be returned to ASHRAE Bi-State by Wednesday, May 5, 2010.

Members may also cast their ballots in person at the May 12, 2010 membership meeting.

| 7/10 through 6/11 | | | | | |
|---|------------|-----------|------|----|----------|
| Position | First Name | Last Name | Vote | | |
| Officers | | | Yes | No | Write-in |
| President | Enzo | Carlesimo | | | |
| President-Elect | Nicholas | Salomone | | | |
| Vice President | Erica | Ross | | | |
| Secretary | Erica | Ross | | | |
| Treasurer | Dennis | LaVopa | | | |
| Governors | | | | | |
| BOG | Michael | Circosta | | | |
| BOG | Albert | Collado | | | |
| BOG | Robert | Roston | | | |
| <i>2009/2010 President Elect Enzo Carlesimo will automatically succeed to President</i> | | | | | |
| Member Name: | | | | | |
| Member No. : | | | | | |

Detach and mail to: ASHRAE Bi-State — Ballots
 C/O O'Dea, Lynch, Abbattista Consulting Engineers, PC
 50 Broadway
 Hawthorne, NY 10532-1245

Research Promotion Contribution Form

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

Terry Connor
Johnson Controls
8 Skyline Drive
Hawthorne, NY 10532

Phone: 914-593-5223 Fax: 914-593-5201

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.

Officers and Governors 2009—2010

| Position | First Name | Last Name | Email | Phone | Fax |
|-----------------------------|------------|------------|----------------------------|----------------|----------------|
| Officers | | | | | |
| President | Dennis | LaVopa | dlavopa@dlFlowTech.com | (845) 265-2828 | (845) 265-2745 |
| President-Elect | Enzo | Carlesimo | ecarlesimo@collado-eng.com | (914) 332-7658 | (914) 332-7659 |
| Vice President | Enzo | Carlesimo | ecarlesimo@collado-eng.com | (914) 332-7658 | (914) 332-7659 |
| Secretary | Nicholas | Salomone | nsalomone@olace.com | (914) 919-3140 | (914) 919-3141 |
| Treasurer | Dennis | LaVopa | dlavopa@dlFlowTech.com | (845) 265-2828 | (845) 265-2745 |
| Governors | | | | | |
| Past President/Delegate | Terry | Connor | Terry.Connor@jci.com | (914) 593-5223 | (914) 593-5201 |
| BOG (term ends June 2010) | Michael | Circosta | mgc3@westchestergov.com | (914) 995-2573 | (914) 995-2564 |
| BOG (term ends June 2010) | Albert | Collado | acollado@collado-eng.com | (914) 332-7658 | (914) 332-7659 |
| BOG (term ends June 2010) | Robert | Roston | bob@rostonfamily.com | (914) 761-3364 | (914) 761-1811 |
| BOG (term ends June 2011) | Steven | Abbattista | sabbattista@olace.com | (914) 747-2800 | (914) 747-0453 |
| BOG (term ends June 2011) | Cliff | Konitz | c.konitz@verizon.net | (845) 297-5864 | (845) 297-5864 |
| BOG (term ends June 2011) | Joseph | Trongone | jtrongone@lynstaar.com | (914) 741-1290 | (914) 741-1253 |
| BOG (term ends June 2012) | James | Dolan | jdolan@olace.com | (914) 747-2800 | (914) 747-0453 |
| BOG (term ends June 2012) | John | Fusco | jfusco@olace.com | (914) 747-2800 | (914) 747-0453 |
| BOG (term ends June 2012) | Lawrence | Sturgis | smacna.seny@verizon.net | (914) 592-1776 | (914) 592-1904 |
| Committee Chairs | | | | | |
| CTTC (Acting Program Chair) | Enzo | Carlesimo | ecarlesimo@collado-eng.com | (914) 332-7658 | (914) 332-7659 |
| Research Promotion | Terry | Connor | Terry.Connor@jci.com | (914) 593-5223 | (914) 593-5201 |
| Student Activities | James | Dolan | jdolan@olace.com | (914) 747-2800 | (914) 747-0453 |
| TEGA | Lawrence | Sturgis | smacna.seny@verizon.net | (914) 592-1776 | (914) 592-1904 |
| Membership Promotion | Enzo | Carlesimo | ecarlesimo@collado-eng.com | (914) 332-7658 | (914) 332-7659 |
| 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 | (914) 761-1811 |
| Reception | Joseph | Trongone | jtrongone@lynstaar.com | (914) 741-1290 | (914) 741-1253 |
| Attendance | 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 Roster 2009-10 Executive Committee

DRC – Director & Regional Chair

Spencer Morasch
Jersey Central Power & Light
Building 3, Suite 325
Red Bank, NJ 07701
732-212-4133
smorasch@firstenergycorp.com

RVC Student Activities

Richard Vehlow
NYS Office of General Services
33rd floor Corning Tower GNARESP
Albany, NY 12242
518-486-1510
rev1969@gmail.com

ARC – Assistant Regional Chair & Treasurer

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

Regional Chapter Programs Chair

Peter Oppelt
R.F. Peck Co.
889 Atlantic Ave.
Rochester, NY 14609
585-697-0836 x103
poppelt@rfpeck.com

Nominating Committee Member

Emery Otruba, P.E.
262 Johnson Hill Road
Hoosick Falls, NY 12090
518-686-4436
eotruba@verizon.net

Regional Refrigeration Chair

Steven Friedman, PE, HFDP, LEED AP
Lilker Associates
1001 Avenue of the Americas, 9th floor
New York, NY 10018
212-695-1000 x261
sfriedman@lilker.com

Nominating Committee Alternate

Cliff Konitz
4 Dennis Road
Wappingers Falls, NY 12590
845-297-5864
c.konitz@verizon.net

Regional Historian

Phil Knowlton
Knowlton Associates
191 Middle Haddam Road
Portland, CT 06480
860-342-3970
pbknowlton@comcast.net

RVC Membership Promotion

Joseph Furman
Belimo Americas
43 Old Ridgebury Road
Danbury, CT 06810
203-749-3163
ioe.furman@us.belimo.com

Regional Electronics Comm. Chair & Newsletter Judge

Heather L. Nowakowski, P.E.
Roswell Park Cancer Institute
Elm & Carlton Streets
Buffalo, NY 14263
716-845-3521
heather.nowakowski@roswellpark.org

RVC Research Promotion

Darcy Carbone
Stebbins-Duffy, Inc.
545 Salem Street
Wakefield, MA 01880
781-246-0840
dcarbone@stebbinsduffy.com

Director of Member Services

Carolyn Kettering
ASHRAE
1791 Tullie Circle, N.E.
Atlanta, GA 30329
404-636-8400
ckettering@ashrae.org

RVC Chapter Technology Transfer

Steve Rosen
Einhorn, Yafee & Prescott—Architecture & Engineering
24 School St.
Boston, MA 02108
617-305-9800
srosen@eypae.com

Director of Communications and Publications

Jodi Dunlop
ASHRAE
1791 Tullie Circle, N.E.
Atlanta, GA 30329
404-636-8400
jdunlop@ashrae.org

HELP WANTED

Employment ads may be submitted for inclusion in the following month's issue of **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.

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).

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)
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 (914) 403-4702 Cell
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Engineering Consultant

Bob Roston, P.E.
 6 Pilgrim Road
 White Plains, NY 10605-3703

Tel: 914 761-3364
 Fax: 914 761-1811
 Mobil: 914 646-8322
 e mail: bob@rostonfamily.com



Brian W. Ryglewicz

CDS, Inc. P 212.685.7077
 110 W. 40th Street F 212.685.4777
 Suite 307 C 917.501.0485
 New York, NY 10018 E br@chimneydesignsolutions.com
 W www.chimneydesignsolutions.com



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Vikash Patel, LEED AP
 Vice President

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 E-MAIL: vpatel@dpwolff.com

Wallace Eannace Associates, Inc.

Manufacturers Representatives
 779 Susquehanna Avenue
 Franklin Lakes, New Jersey 07417
 201 / 891-9550
 Cell 914 / 772-4422
 Fax 201 / 891-4298
 Email: smartin@wea-inc.com

Stephen Martin
 Technical Sales Engineer




LAWRENCE STURGIS
 EXECUTIVE VICE PRESIDENT

1 PAULDING STREET
 ELMSFORD, NY 10523

PHONE: 914-592-1776
 FAX: 914-592-1904
 e mail: smacna.seny@verizon.net

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The American Society of Heating, Refrigerating and Air-Conditioning Engineers advances the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world. Membership is open to any person associated with the field including indoor air quality, building design and operation, and environmental control for food processing and industry.

ASHRAE will be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating.



Upcoming Meetings

| Month | Date | Promotion | Main Presentation | Tech Session |
|-------|-----------|--------------------|--|-----------------------------|
| April | 4/14/2010 | History | Mayor Philip Amicone of Yonkers—Relationship between Govt. & Engineering & Development of Downtown Yonkers | |
| May | 5/12/2010 | Student Activities | Infrared Thermography | Quality Assurance Testing & |
| June | 6/16/2010 | Golf Outing | | |

Utilities Spent \$5.3 Billion on Energy Efficiency Programs in 2009

U.S. utilities increased their spending on energy efficiency programs by 43% in 2009, according to a new report from the nonprofit Consortium for Energy Efficiency (CEE), which represents energy efficiency program administrators from across the United States and Canada. U.S. utility spending on energy efficiency programs reached \$5.3 billion, including \$4.4 billion for electric energy efficiency programs and \$930 million for natural gas programs. Spending on natural gas programs increased the most, at 79%, while electric programs increased by 38%. Utility energy efficiency programs also expanded geographically, as such programs are now offered in 46 states, compared to only 37 states in 2008. The CEE report notes that electric energy efficiency spending grew the fastest in the Southeast and South Central states, with a 76% increase to \$800 million in 2009. For instance, new legislation in Maryland increased electric energy efficiency spending by a factor of 13, while Kentucky increased its spending by an order of magnitude and Tennessee's spending increased by a factor of 5. Electric energy efficiency programs focus a majority of their spending on commercial and industrial facilities, while natural gas programs are skewed more toward residential customers. See pages 20-22 of the CEE annual report (<http://www.cee1.org/files/2009CEEAnnualReport.pdf>).

Such energy efficiency programs are expected to keep U.S. greenhouse gas (GHG) emissions in check over the next 20 years, but long-term costs have been underestimated, according to Bloomberg New Energy Finance. Even in the absence of new carbon reduction policies, the market research firm predicts that the United States will exploit readily available residential and industrial efficiency gains to achieve a 2% drop in GHG emissions by 2030. But once those simpler options are used up, the cost for further cuts will rise more steeply than previously thought. To achieve the Obama Administration's goal of a 17% cut by 2020 would require more fundamental changes to the power and transport sectors, but costs can still be held to less than \$1 per day per U.S. household, according to Bloomberg New Energy Finance. The report calls for new, more aggressive policies by the United States to help speed energy technology improvements and lower the long-term costs of cutting GHG emissions. See the Bloomberg New Energy Finance press release (http://www.newenergymatters.com/download.php?n=2010_01_14_US_MAC_curves.pdf&f=pdf&t=pressreleases) and report (http://carbon.newenergyfinance.com/download.php?n=BBNEF_CarbonMarkets_NAmerica_RN_2010_01_RN_USMACC.pdf&f=fileName&t=NCF_downloads).

SMACNA to Present Webinars on Duct Construction

The Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) will present a series of three webinars on how to construct HVAC rectangular and round duct to be compliant with the third edition of SMACNA's *HVAC Duct Construction Standards—Metal and Flexible* manual. The webinars will be held on April 21, May 5, and May 19, each at 11 a.m. (EDT). The 60-minute webinars are open to both SMACNA members and nonmembers. SMACNA technical staff will lead the webinars. Registration for all three is \$385. For each separate webinar, registration is \$145.

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