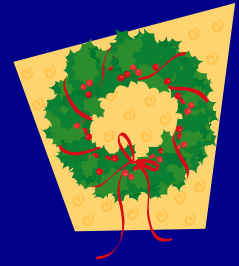




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ASHRAE Rochester



VOLUME 4, ISSUE 4

DECEMBER 1, 2009

Rochester ASHRAE Chapter December Lunch Meeting

Monday, December 14, 2009

Time: 12:00 Noon – 2:00 PM with Lunch served

Cost: \$25.00

Location: Mario's Italian Steakhouse, 2740 Monroe Ave., Rochester 14618

Presenter: Lynn G. Bellenger – Pathfinder Engineers LLP

Topic: ASHRAE/USGBC/IESNA Standard 189.1.

“Standard for the Design of High-Performance Green Buildings”

Lynn G. Bellenger, P.E., will be discussing ASHRAE /USGBC/IESNA Standard 189.1. Bellenger, a fellow ASHRAE member, is a partner with Pathfinder Engineers and Architects, Rochester, N.Y.

As the Society's president-elect, Bellenger is a member of the Board of Directors and the Executive Committee and chairs the President-Elect Advisory Committee, Members Council and the Advocacy Committee. She is also a member of the Indoor Air Quality Design Guide Steering Committee and technical committee 4.1, Load Calculation and Data Procedures. She formerly served as treasurer and vice president.

Bellenger is a recipient of the Exceptional Service Award, the Distinguished Service Award, two first-place ASHRAE Technology Awards and the Lincoln Bouillon Membership Award.

She received a Bachelor of Science in mathematics from Principia College and a master of science in environmental science from Rutgers University.

Lynn believes “we need to inspire and motivate the developers, owners, design professionals, contractors, and operators – everyone involved in the built environment – to accept the challenge to ‘take energy out of buildings’ and provide a healthy, productive environment at minimal energy use.”

There will be 1.0 pdh credit available to those attending this meeting. Please note that this is the same presentation Danja gave at the Rochester Engineering Symposium so if you attended that seminar you cannot receive an additional pdh credit.

Please RSVP by noon Thursday, December 10th to Ed Burns, Phone: 585-872-6681 or ejb@mechtechhvac.com. Also, this will be a **Research Promotion** night.



Lynn Bellenger, P.E.
Pathfinder Engineers

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ASHRAE 2009/2010 MEETING SCHEDULE

| DATE | EVENT | LOCATION | SCHEDULE |
|----------------------------------|--|---|--|
| 12/14/2009 Research Promotion | Lynn Bellenger—ASHRAE Standard 189 | Mario's | 12:00-2:00 PM Lunch |
| 1/11/2010 Student Night | Steve Beck—Envelope Commissioning Joint Meeting with USGBC | Mario's | 12:00-2:00 PM Lunch |
| 2/8/2010 Student Night | RIT CIMS Building—Thermal Fluids Lab Al Rodgers & Carl Lundgren | RIT - Dinner through RIT Food Service | 5:30 PM |
| * 2/5/2010 | Valentine's Dinner Dance | * Inn on Broadway | 7:00 PM |
| 3/8/2010 Membership Night | Possible Distinguished Lecturer | Mario's | 12:00-2:00 PM Lunch |
| 4/12/2010 | Refrigeration Night—Tour of Perry's Ice Cream Possible Joint Meeting with Niagara Chapter | Perry's Ice Cream—Akron Dinner | TBD |
| 5/18/2010 | Annual ASHRAE Golf Outing and Picnic | Ravenwood Golf Club | 8:00 AM Golf 2:00 PM Picnic 6:45 PM Dinner |

* Please note time and location was changed from previous calendar.



Mission Statement

ASHRAE will advance the arts and sciences of heating, ventilation, air conditioning, refrigeration and related human factors to serve the evolving needs of the public and ASHRAE members.

“Advancing HVAC&R to serve humanity and promote a sustainable world”



Vision Statement

- will be the global leader in the arts and sciences of heating, ventilation, air conditioning and refrigeration.
- will be the foremost, authoritative, timely and responsive source of technical and educational information, standards and guidelines.
- will be the primary provider of opportunity for professional growth, recognizing and adapting to changing demographics, and embracing diversity.

President's Message by: Jeff Davis



LEED, or Leadership in Energy and Environmental Design was developed by the US Green Building Council as a way to gauge a building's impact on the environment. The spirit of LEED certification is that sustainable design and construction methods are foremost in the mind from the very beginning of the design process. It's hard to believe that the LEED rating system was developed over 10 years ago. In that time, ASHRAE has taken a leadership role in sustainable design and has been a vital partner with the USGBC in its endeavor to further sustainable building design and construction. Standard 90.1, *Energy Standard for Buildings Except Low Rise Residential Buildings* has undergone several revisions increasing energy performance expectations. Another set of resources includes ASHRAE's Advanced Energy Design Guide series which details design methods for achieving 30% better than standard 90.1 in several building types. Most recently, ASHRAE has teamed with the Illuminating Engineering Society of North America (IESNA) and the USGBC to develop Standard 189, *Standard for the Design of High Performance Green Buildings Except Low Rise Residential Buildings*. It is the first such green building standard in the United States. Many ASHRAE standards have been adopted by building codes as law. I can foresee a similar fate for Standard 189.

This month's chapter meeting featured Dave Meyer, one of the founding partners of Pathfinder Engineers. Dave's presentation, titled "High Performance on a Budget / Pathfinder's New Headquarters" was a result of their recent decision to seek a new building to be headquartered in. Dave helped disprove the perception that LEED certification is attainable only with an outrageous financial investment. Pathfinder's new headquarters on South Fitzhugh Street was

renovated for around \$54/sq.ft. and is headed for LEED Gold! Take a look around their building and you will find standard equipment that we're all familiar with, from high efficiency gas fired furnaces with high SEER condensing units and ERV's in the heating system, to high efficiency T5 light fixtures with daylighting controls in the electrical system. What does this mean? It means that LEED certification does not necessarily require exotic, expensive equipment and systems. I firmly believe that developments such as digital scroll compressors and DC direct drive motors for variable speed would not be available to the average consumer without some visionary manufacturers responding to the shift toward high efficiency and sustainability. Other economic incentives making Pathfinder's building project viable include NYSERDA grants and construction loan assistance, tax incentives from REDCO and the SBA, and tax benefits from COMIDA. In this case, Pathfinder will realize property tax abatement of \$183,000 over 14 years. Good for COMIDA for making minimum LEED Certified a requirement. Dave also made reference to what he called the "triple bottom line" which means that the economic bottom line was equally as important as the environmental and social bottom lines. The budget was important, but so was the impact on the environment and the health of employees. One of the added benefits of adhering to LEED certification guidelines is an improved indoor environment resulting in reduced lost sick time by employees. Recognizing that consulting engineers are stewards of the built environment, Pathfinder's partners are truly walking the walk with respect to sustainable building design and construction. Thank you Dave for sharing this success story of a high performance building that is right in our neighborhood, and that is accessible for anyone with a vision of sustainability.

Jeff Davis, PE, 2009-2010 President



ASHRAE

Researching Today
to Change Tomorrow

Research Promotion:

During next months chapter meeting we will be recognizing last years ASHRAE Research donors for there 2008-09 campaign contributions. Together our chapter was able to raise \$13,535 through charitable contributions from local companies and individuals. The money raised through the research promotion campaign was match 100% by society to provide a grand total of \$27,070 towards research projects already underway. To jump start the 2009-10 campaign each of the Rochester Chapter officers made an Honor Roll donation and has once again received the Full Circle Award. I am hoping I can count on the continued support of all of our past contributors who have generously supported us over the years. I also look forward to gaining the support of new contributors this coming year.

A special thank you to all of last year's contributors:

| | | | |
|---|-----------------------|---------------------------|------------------|
| Gray Metal Products Inc | ASHRAE Partner | Mr Joseph R Van Cura | Honor Roll Donor |
| Rochester ASHRAE Chapter | Major Donor - Silver | Mr James C Browe | Honor Roll Donor |
| R L Kistler Inc | Major Donor - Bronze | Mr Thomas E Piekunka | Honor Roll Donor |
| R P Fedder Corporation | Major Donor - Bronze | Mr Jeffrey C Ellis | Honor Roll Donor |
| Slater Equipment Company Inc. | Major Donor - Antique | Mr Theodore K Knowles, Jr | Honor Roll Donor |
| MECH Tech HVAC | Major Donor - Antique | Mr Joseph D Gangemi | Honor Roll Donor |
| H M Cross & Sons Incorporated | Major Donor - Antique | Mr Ronald C Mead | Honor Roll Donor |
| Turner Engineering | Major Donor - Antique | Ms Michelle Sommerman | Honor Roll Donor |
| Ms Lynn G Bellenger | Major Donor - Antique | Mr Jeffrey S Close | Honor Roll Donor |
| Air Systems Balancing & Testing Service | Honor Roll Donor | Mr. William Taillie | Honor Roll Donor |
| Guckian Energy Systems LLC | Honor Roll Donor | Mr Donald C Fisher | Honor Roll Donor |
| Erdman Anthony & Associates | Honor Roll Donor | Johnston Equipment Co | Individual Donor |
| S M A C N A - Rochester | Honor Roll Donor | Mr Charles G White | Individual Donor |
| Day Automation Systems Inc | Honor Roll Donor | Mr Aldo F Fioravanti | Individual Donor |
| TRANE Company | Honor Roll Donor | Mr Robert C Moyer | Individual Donor |
| Mr Richard P Barrett | Honor Roll Donor | Mr James D Ormond | Individual Donor |
| Mr Jeffrey C Bidell | Honor Roll Donor | Mr Steve Beck | Individual Donor |
| Mr William C. Schmitt | Honor Roll Donor | Mr Robert A Walton | Individual Donor |
| Mr Jeffrey M Davis | Honor Roll Donor | Mr Guy Ward | Individual Donor |
| Mr Lee M Loomis | Honor Roll Donor | Mr. Casey G. Bernhard | Individual Donor |

If any one is interested in donating, but doesn't know where to begin, please contact me.

Jeffrey Close - *Research Promotion Chair*

jeff.close@pres-services.com

Jeff Close, 2009-2010 Research Chair

Attention Members:

Just a reminder that all members that reserve a spot for the monthly meeting will be responsible for that reserved space. Members have until 12:00 pm the day of the RSVP deadline to cancel their meeting reservation. Failure to comply with this rule will result in the attendee being responsible for the payment of that reservation.





2010 ASHRAE Buyer's Guide

Please take the opportunity to promote your company's products and services in the 2010 ASHRAE Buyer's Guide.

This valuable guidebook is distributed to each Rochester Chapter ASHRAE member and is one of the best resources of HVAC product and service listings in this region.

You can make your ASHRAE Buyer's Guide submission by emailing a black & white 5 ½" x 8 ½" or 8 ½" x 11" page as you would like your ad to appear.

Ad Format options for submission include:

- **Best:** pdf print file
- **Good:** word file
- **Least:** other

The cost will remain the same as last year at \$125.00. It is our intent to release the Buyer's Guide in February 2010 so the deadline to receive your ad is January 15, 2009.

Email your ad to: cwengineering@rpa.net.

Please send your \$125.00 check payable to ASHRAE Rochester Chapter to:

Charles White
128 Hogan Road
Fairport, NY 14450

If you have any questions, please call me at (585) 223-2462.

Thank you for your support.
Charles White,
Chairman, ASHRAE Rochester Buyer's Guide Committee.



Student Activities:



Student Activities



Rich Vehlow, the Region 1 RVC for Student Activities was on hand at the last meeting. Rich spoke about the Senior Design Grants from ASHRAE that have been an integral part of the RIT Thermo-fluid Laboratory experiments for 10 years now. Many thanks to Rich for his kind words.

The ASHRAE-funded duct lab is now officially complete and operational at the RIT Thermo-Fluid Lab. The following companies contributed equipment to complete this impressive experiment:

Crosby-Brownlie Inc.- Sheet metal, diffusers and accessories, including “see-through” elbows and fittings!

R.F. Peck- Cabinet fan and dampers

Swanson Associates- Ebtron airflow stations

T. H. Herman Inc.- Graham fan motor VFD

Air Systems Balancing and Testing Service, Inc.- Hand-held airflow testing equipment

THANK YOU VERY MUCH FOR YOUR SUPPORT!

2009 editions of the ASHRAE Fundamentals were sent to all members, so I expect there is roughly around 270 “old” Fundamentals books out there in the Rochester area. The students at RIT sure could use a few of them. Please remember to bring your old Fundamentals and Guide and Data books to the meetings. They can be re-cycled! And, the Fundamentals books are green..... OK, bad joke.

A couple of weeks ago, the RIT Student Branch was locked in fierce competition in the inaugural RIT Soapbox Derby Extravaganza. The ASHRAE group worked long hours to design and fabricate a vehicle that was to say the least, in keeping with the ASHRAE name. The group made it to the finals by tough competition and “bending” of the specifications. They put up a valiant fight in the last heat, but came in second place to the device fabricated by the student ASME chapter. There will be another race scheduled for the spring, and it appears we have some interest from graduates of the RIT MET program who will be working with the Student Chapter to develop an “alternate” vehicle. The current vehicle will be re-designed and prepared for yet another competition as well. Thanks to all the students and Professor Lundgren, who provided valuable technical assistance.

Regards,

AI

AI Rodgers, 2009-2010 Student Activities Chair



Historian Report:

HOW DISTRICT STEAM HEATING GOT ITS START IN UPSTATE NEW YORK



In June of 1934 Rochester was host to the 25th Annual Convention of the National District Heating Assn. (NDHA). From a small beginning this industry had grown into one of the largest municipal energy consuming operations in the nation. It was born on Chestnut St. in Lockport, NY in 1876, where engineer Birdsell Holley conducted a series of experiments to show that steam could be transmitted, effectively, for long distances. The object of his experiment was to bring still greater perfection to his Sybill Steam Fire Engine. His plan was to conduct live steam from a central generating plant to fire hydrants throughout the City of Lockport, where fire engines would take their power for pumping, as well as water, from the hydrants. The steam boilers he developed to power these systems in many American cities, as well as the fire hydrant water system, here in Rochester, still bears his name. The station in New York State's Capital has been converted into a popular restaurant, the Albany Pump Station, and serves as a cornerstone of that city's historical district.

Of even greater success were the central station steam heating systems in many other major U.S. cities. Rochester's was only the third such system to enter operation, in 1899. Our first steam plant was erected at Edison and Exchange Sts., adjacent to the Erie Canal. A second plant was established on Brown's Race, and others followed on Mill St., Litchfield St., Lawn St., Lincoln Pk. and Goodman St. By 1934, these powdered-coal-fired stations, operated by Rochester Gas & Electric Corp., were serving over 300 customers, ranging from industries to hospitals, and included commercial as well as single-family residential structures. By this time, more efficient transmission lines and advanced insulating materials enabled the effective transmission of high-pressure steam for up to two miles. In 1934 this allowed Rochester's system to earn the distinction of serving the largest

number of industrial customers, of any such system in the World, having become the sixth largest central station system on the planet. The delivery of over 1.2 Billion pounds of steam to its customers in Rochester, NY required the annual consumption of 100,000 tons of coal.

The driving force in the rapid evolution and success of these systems, was their ability to effectively eliminate the "forest" of urban smokestacks that populated America's major cities and the accompanying oppressive clouds of downtown smoke, soot and cinders. Further, the persistent problem of sidewalk ash barrels, littering downtown streets, awaiting municipal collection, became a thing of the past.

From early the experiments in Lockport, NY, came the Holley Steam Combination Company, later the American District Steam Company of North Tonawanda, NY. By the early 1880's, the New York Steam Corporation was formed. Eventually the largest of its kind in the World, it provided heat to the developing skyscrapers of Manhattan, eventually serving the Empire State Building, Rockefeller Center, Chrysler Building, Grand Central Station and many others. Beyond simply heating these buildings, steam could meet cooling, cooking, laundry, hospital sterilization and many industrial applications. This allowed engineers and architects to design most central-city buildings without costly boilers, boiler rooms and associated fuel and waste-handling equipment.

To this day, Rochester's District Heating Cooperative's natural gas-fired Lawn Street station serves a core group of the City's essential facilities, on both sides of the Genesee River, from a single plant. The system, now only 1/3 of its original size, is operated as a cooperative, governed by the customers it serves.



ASHRAE Inside

Building Sustainability from the Inside Out

Register
and save
before Oct. 31

Orlando, FL

2010 Winter Conference

January 23 - 27

ASHRAE's 2010 Winter Conference

January 23-27, 2010

Rosen Shingle Creek

Orlando, Florida

"It's not the heat, it's the humidity," is often used to explain the less-than-comfortable temperatures in tropical Florida. While the water-saturated air is perfect for hibiscus and alligators, humans have had to find their own ways to deal with the Sunshine State's humid conditions. What better place to discuss this year's conference theme: Building Sustainability from the Inside Out. Whenever the temperatures outside are too hot or humid to handle, ASHRAE ensures that indoor environments are comfortable and, most important, sustainable.

January 25-27, 2010 • Orange County Convention Center • Orlando, Florida

About the Expo

The AHR Expo attracts tens of thousands of attendees from all facets of the industry, including contractors, engineers, dealers, distributors wholesalers, OEMs, architects and builders, industrial plant operators, facility owners and managers, agents and reps. Since 1930, the AHR Expo has been the HVAC&R professional's best resource for new products, new ideas and new services. It's a hands-on, interactive event that showcases a wide spectrum of equipment, systems, and components. This unique industry forum creates a dynamic marketing environment unequaled in size and scope by any other industry event. The event is co-sponsored by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), and the Air-Conditioning, Heating and Refrigeration Institute (AHRI). It is held every year in conjunction with the ASHRAE Winter Conference. [Visit the AHR Expo Web site.](#)

Governmental Affairs Update

Welcome to ASHRAE's Government Affairs Update. Along with the redeveloped Government Affairs webpage, these periodic e-mail updates feature information on government affairs related activities of interest to ASHRAE members and others interested in the built environment. Archives of previous updates are available from the government affairs webpage (<http://www.ashrae.org/advocacy>).

You are encouraged to pass this information on to interested colleagues who also may subscribe from the ASHRAE Government Affairs webpage. Should you wish to unsubscribe, information appears at the end of this e-mail.

If you have any recommendations regarding content, or have questions about or would like to participate in Washington Office activities, please contact ASHRAE Government Affairs staff at (202) 833-1830 or washdc@ashrae.org.

ASHRAE Government Affairs Update, 11/20/09

- [ACEEE: California Leads the Country in Energy Efficiency Policies](#)
- [Nearly \\$40 Million for Energy Efficiency and Conservation Projects in Florida and Maine](#)
- [More Than \\$104 Million for National Laboratory Facilities](#)
- [United States and China to Cooperate on Clean Energy](#)
- [AIA Report Notes Surge in Green Building Programs](#)



[ACEEE: California Leads the Country in Energy Efficiency Policies](#)

California topped the 2009 State Energy Efficiency Scorecard, recently released by American Council for an Energy-Efficient Economy (ACEEE). The third annual edition of the report from the nonprofit ranks states in six energy efficiency categories: utility-sector and public benefits programs and policies; transportation policies; building energy codes; combined heat and power; state government initiatives; and appliance efficiency standards. In the new scorecard, Massachusetts and Connecticut land in second and third place, respectively, while the states at the bottom of the list include Mississippi, North Dakota, and Wyoming.

The report lauds the states of Colorado, Delaware, Maine, South Dakota, and Tennessee for greatly improving their ranking in 2009. According to the ACEEE, a variety of efforts boosted the rankings of those states, including the adoption of new building energy codes and the setting of new energy savings targets. For instance, Maine moved up 9 spots to number 10 through the increased efforts of Efficiency Maine (the agency that delivers the state's energy efficiency programs), the adoption of building energy codes, land-use planning management, and other activities. The report also notes a growing trend toward Energy Efficiency Resource Standards (EERS), which set binding energy savings goals for utilities. In late 2008 and in the first half of 2009, Delaware, Michigan, Ohio, and Pennsylvania passed laws establishing EERS targets. See the ACEEE press release (<http://www.aceee.org/press/e097pr.htm>) and the 2009 State Energy Efficiency Scorecard (<http://www.aceee.org/pubs/e097.htm>).

[Nearly \\$40 Million for Energy Efficiency and Conservation Projects in Florida and Maine](#)

Energy Secretary Steven Chu announced that the U.S. Department of Energy (DOE) is awarding nearly \$40 million in funding from the American Recovery and Reinvestment Act to Florida and Maine to support clean energy projects. Under DOE's Energy Efficiency and Conservation Block Grant (EECBG) program, these states will implement programs that lower energy use, reduce carbon pollution, and create green jobs locally.

The awards to the State Energy Offices will be used to support state-level energy efficiency priorities, along with funding local conservation projects in smaller cities and counties. At least 60% of each state's award will be passed through to local cities and counties not eligible for direct EECBG awards from the Department of Energy. The EECBG Program was funded for the first time by the Recovery Act and provides formula grants to states, cities, counties, territories and federally-recognized Indian tribes nationwide to implement energy efficiency projects locally.

Projects eligible for support include the development of an energy efficiency and conservation strategy, energy efficiency audits and retrofits, transportation programs, the creation of financial incentive programs for energy efficiency improvements, the development and implementation of advanced building codes and inspections, and the installation of renewable energy technologies on municipal buildings.

For a full list of awards to date, visit the Energy Efficiency and Conservation Block Grant Program Web site (<http://www.eecbg.energy.gov/>).

Governmental Affairs Update (continued)

[More than \\$104 Million for National Laboratory Facilities](#)

Deputy Secretary of Energy Daniel Poneman announced \$104.7 million in funding from the American Recovery and Reinvestment Act for eight new projects to establish critical research and testing facilities at seven U.S. Department of Energy (DOE) national laboratories. The projects will support the development and improvement of clean energy and efficiency technologies of strategic national interest. Specifically, the funding will go toward reducing the production cost of carbon fiber manufacturing, to help in reducing the weight of vehicles; improved efficiency and lower costs for car batteries; and net-zero energy building technologies. This effort will leverage the combined intellectual and technical resources of DOE national laboratories to support technologies that will help transform the economy and create jobs, while decreasing carbon emissions.

[United States and China to Cooperate on Clean Energy](#)

President Barack Obama and China's President Hu Jintao announced on November 17 a far-reaching package of measures to strengthen cooperation between the United States and China on clean and renewable energy. The presidents began by establishing a U.S.-China Clean Energy Research Center to facilitate joint research and development of clean energy technologies by scientists from both countries. The center will be supported by \$150 million in public and private funds over the next five years, split evenly between the partners. Initial research priorities will be building energy efficiency, clean vehicles, and carbon capture and storage.

Also, building on the first-ever U.S.-China Electric Vehicle Forum in September 2009, the two leaders unveiled a U.S.-China Electric Vehicles Initiative, which will include developing joint standards, building demonstration projects in more than a dozen cities, creating technical roadmaps, and carrying out public education projects. Both nations said they share an interest in accelerating the deployment of electric vehicles in order to reduce oil dependence, cut greenhouse gas emissions, and promote economic growth. The countries will also leverage private sector resources to develop clean energy projects in China through the U.S.-China Energy Cooperation Program (ECP). More than 22 companies are founding members of the program. The ECP will include collaborative projects involving renewable energy, smart grids, clean transportation, green buildings, combined heat and power, energy efficiency, and clean coal.

As part of their joint efforts, the two powers will hold an ongoing series of forums. For example, a new U.S.-China Energy Efficiency Forum will be held annually, rotating between the two countries. This will be part of the new U.S.-China Energy Efficiency Action Plan, launched by President Obama and President Hu Jintao. The action plan commits the two countries to work together and with the private sector to improve the energy efficiency of buildings, industrial facilities, and consumer appliances. Similarly, the new U.S.-China Renewable Energy Partnership will feature an annual rotating forum. Under the partnership, the two countries will develop roadmaps for widespread renewable energy deployment in both countries. In addition, the countries will encourage state-to-state and region-to-region partnerships in order to share experiences and best practices. Also included in this undertaking will be a new Advanced Grid Working Group, which will bring together U.S. and Chinese policymakers, regulators, industry leaders, and civil society to develop strategies for grid modernization in both countries. See the DOE press release (<http://www.energy.gov/news2009/8292.htm>) and the DOE fact sheets on the Clean Energy Research Center (<http://www.energy.gov/news2009/documents2009/U.S.-China Fact Sheet CERC.pdf>), Energy Efficiency Plan (<http://www.energy.gov/news2009/documents2009/US-China Fact Sheet Efficiency Action Plan.pdf>), and Renewable Energy Partnership (<http://www.energy.gov/news2009/documents2009/US-China Fact Sheet Renewable Energy.pdf>).



Governmental Affairs Update (continued)

[AIA Report Notes Surge in Green Building Programs](#)

The number of U.S. cities with green building programs has increased 50% in two years, according to a survey by the American Institute of Architects (AIA). Green buildings generally include energy-efficient designs and other sustainable features. Among the findings from AIA, 138 cities have green building programs, compared with 92 cities in 2007, and 24 of the 25 most populated metropolitan regions are built around cities with a green building policy. The new report, "Green Building Policy in a Changing Economic Environment," is an inventory of policies and best practices intended to help policymakers advance a more sustainable legislative agenda for growth and development. The report also notes that DOE's Energy Efficiency and Conservation Block Grant program, funded by the American Recovery and Reinvestment Act, is providing "an unprecedented opportunity for the advancement of green building and sustainability efforts in our nation's cities." See the report (<http://www.aia.org/advocacy/local/AIAB081637?dvid=&recspec=AIAB081637>).

A little humor to help break up the day...

An engineer was crossing a road one day when a frog called out to him and said, "If you kiss me, I'll turn into a beautiful princess."

He bent over, picked up the frog and put it in his pocket.

The frog spoke up again and said, "If you kiss me and turn me back into a beautiful princess, I will stay with you for one week." The engineer took the frog out of his pocket, smiled at it and returned it to the pocket.

The frog then cried out, "If you kiss me and turn me back into a princess, I'll stay with you and do ANYTHING you want." Again the engineer took the frog out, smiled at it and put it back into his pocket.

Finally, the frog asked, "What is the matter? I've told you I'm a beautiful princess, that I'll stay with you for a week and do anything you want. Why won't you kiss me?" The engineer said, "Look I'm an engineer. I don't have time for a girlfriend, but a talking frog, now that's cool."



Save the date...

ASHRAE 53rd Annual Valentine's Dinner Dance

Date: February 5, 2010 at 7:00 PM

Place: Tournedos at the Inn on Broadway

Sit down dinner, music, chocolates, flowers, desserts

stay tuned for more details...



Job Postings & Help Wanted



This section of the newsletter is reserved for those firms wishing to advertise their desires to hire from the Chapters Membership.

If you are interested in utilizing this FREE service provided by the Rochester Chapter, please contact our Newsletter Editor, Christina Walter (585.486.2148) or by email cmwalter@trane.com

This service is available to any firm in our industry looking for knowledgeable persons in the HVAC&R industry.



ASHRAE Jobs is the Society's Online employment resource

With an exceptionally difficult recruitment market, the ASHRAE Jobs Career Center has been averaging 55 active job postings per month and just over 5,000 monthly job seeking visitors. Recruiters are experiencing, on average, 12 online applications per job posting and have access to just over 1200 resumes that have posted its launch on June 15.

ASHRAE Jobs is not only about the hire. It is the path to a hire. By visiting www.ashraejobs.com, you can search for certain skill sets and demographics that you are "always looking for". It is the place to capture high performers you can use to replace underperformers. Is this the place to see if your competitors people are out searching and interested in you. It is also the place to capture candidates for your Q1 hires because we are only 45 days away.

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2009-2010 Presidential Award of Excellence Summary

| Chapter # | Chapter Name | Chapter Members | Member Promotion | Student Activities | Research Promotion | Chapter Technology Transfer | History | Chapter Operations | Chapter PAOE Totals |
|-----------|--------------|-----------------|------------------|--------------------|--------------------|-----------------------------|---------|--------------------|---------------------|
| 11 | Rochester | 241 | 0 | 0 | 345 | 100 | 0 | 0 | 445 |



Society News: ASHRAE, IES Seek to Lighten Energy Use through Changes to Standard 90.1

ATLANTA – Requirements to “lighten up” energy use and costs through fenestration, parking lot lighting and other proposed measures are being recommended for Standard 90.1.

ANSI/ASHRAE/IESNA Standard 90.1-2007, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings. Currently, 15 proposed addenda to the standard are open for public review.

“As the industry continues to call for buildings and systems that use less energy, the Standard 90.1 committee is striving to find ways to reduce energy uses and costs,” Mick Schwedler, chair of the Standard 90.1 committee, said. “The proposed changes not only reduce energy use but move the standard closer to the workplan goal of a 2010 standard with 30 percent energy cost savings compared to the 2004 standards.”

Among the proposed addenda out for public comment is addendum cd, which would require active exterior control rather than just require the control capa-

bility; add bi-level control for general all-night applications, such as parking lots to reduce lighting when not needed; and add control for façade and landscaping lighting not needed after midnight.

Eric Richman, chair of the standard’s lighting subcommittee, noted that studies from the California Lighting Technology Center at the University of California at Davis found that control strategies reduce lighting energy use by significant amounts during night time hours. A study by Polytechnic State University showed that parking lot lighting operates in a low mode 68 percent of the time.

Additional information from a study by Navigant Consulting shows that parking lots account for 22 Twh out of a total 57 TWh used for outdoor lighting annually nationwide. While this estimate includes all lit parking areas, the potential for energy savings in parking areas that are directly associated with specific building projects are significant and should be supported by the standard.

A second public review of proposed addendum bn would reduce solar loads by orienting the fenestration in more appropri-

ate directions. Changed in response to comments during the first public review, this approach gives flexibility to building design teams to work with siting and fenestration and orientation as well as fenestration area to comply with the requirement.

Proposed addendum bb updates building envelope requirements for opaque elements, such as walls and rooms, and fenestration (windows and skylights). A number of changes were made in response to public comments during the first public review.

“I would like to thank all of those who met with the Standard 90.1 committee during our fall interim meetings for their candor, input and willingness to work toward an addendum that can reach consensus and save both energy and energy costs,” Schwedler said.

The proposed addenda to ASHRAE/IESNA Standard 90.1 are available for comment only during their public review period. To read the addenda or to comment, visit www.ashrae.org/publicreviews.

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From the Editor’s Desk

The ASHRAE Chapter Bulletin should reflect the opinions, activities and needs of it’s members. We represent an active membership and the Bulletin can provide a valuable and enjoyable forum for news of our individual members.

Any announcements of interest, as well as letters, opinions, questions or comments, should be addressed to Christina Walter, Trane, 75 Town Centre Drive, Rochester, NY 14623 or email to cmwalter@trane.com

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