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VOLUME 4, ISSUE 3

OCTOBER 4, 2009

October ASHRAE Meeting

Monday, October 12, 2009

Location: Mario's Via Abruzzi 2740 Monroe Ave, Rochester

Time: 12:00 - 2:00 PM with Lunch Served

Cost: \$25.00

Presenter: Danja McMillan, Camfil Farr

Topic:

“Discussion on ASHRAE 52.2-2007 (addendum B and appendix J) – Testing Air Filters on Particle Size Versus Efficiency”

The Rochester Chapter of ASHRAE invites you to join us at Mario's via Abruzzi on Monroe Avenue for a lunch meeting Monday October 12, 2009. Danja McMillan will be discussing ASHRAE 52.2-2007. Mrs. McMillan is the Northeast Regional Sales Manager for Camfil Farr and has more than 20 years of experience in the sales, marketing, and management of high performance products for specific markets including healthcare, schools, pharmaceuticals, cleanrooms, laboratories, museums and industrial markets.

Danja is a member of ASHRAE. She was a member of the American Indoor Air Quality Council, and is a certified indoor air quality technician (CIAQT). She has been the featured speaker for numerous AHRAE/ASHE Chapters across the country and was one of the featured IAQ panelists at AFEC-Denver CO.

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, October 8th to Ed Burns, Phone: 585-872-6681 or ejb@mechtechvac.com



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ASHRAE 2009/2010 MEETING SCHEDULE

DATE	EVENT	LOCATION	SCHEDULE
10/12/2009 Membership Night	Danja McMillan—Camfil Farr “ASHRAE 52.2-2007” (pdh Ready)	Mario’s	12:00-2:00 PM Lunch
11/9/2009	David Meyer—Pathfinder Engineers Possible tour of new downtown office with review of LEED Accomplishments	Pathfinder - Dinner downtown?	5:30 PM
12/14/2009 Research Promotion	TBD—Possible Distinguished Lecturer Speaker	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
2/13/2010	Valentine’s Dinner Dance	Hyatt Downtown Rochester	7:00 PM
3/8/2010 Membership Night	Lynn Bellenger—Standard 189	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?	
5/18/2010	Annual ASHRAE Golf Outing and Picnic	Ravenwood Golf Club	8:00 AM Golf 2:00 PM Picnic 6:45 PM Dinner

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 with CRC Summary

by: Jeff Davis



The ASHRAE Region 1 Chapter's Regional Conference (CRC) was hosted by the Northeast Chapter this year and was held at the Desmond Hotel in Albany, NY. The CRC is a yearly gathering of ASHRAE leadership from local Chapters across the northeast, the Region and the Society. Anyone involved with a local chapter should attend a CRC at some point in their lives. I have attended several and have always come away with a sense of awe at the group dynamics and the energy level. The spirit of volunteerism I've mentioned in previous articles is truly amazing at the CRC. In addition to committee workshops and roundtable discussions about lessons learned throughout the year, the actual governance of ASHRAE Society is on the agenda. Motions are brought up, discussed, voted on and passed up the chain through the Region and then on to Society. To me, this really drives home the concept of ASHRAE being a grassroots organization. One motion brought up for discussion this year was to create an official Sustainability Committee. Sustainable construction is arguably the most significant topic in the industry right now and, I believe for the foreseeable future. It is the very essence of Society President Gordon Holness' presidential theme. Several chapters in our region already have their own Sustainability committees and I believe it's only a matter of time before Society follows suit.

As expected, another hot topic at the CRC was energy efficiency in building operations. Senator Roy McDonald, 43rd Senate District, and member of the Saratoga and Rensselaer Counties "Green Buildings Committee" made a presentation on energy efficiency at the welcome reception. I believe Senator McDonald took a very practical approach to this when he asked the question "How do we make people engage in energy efficient practices? We mandate them." How do we attempt to make people drive

slowly? We fine them. How do we attempt to make people return bottles and cans? We charge them. He also mentioned the building efficiency rating system that was discussed by Society Past President Kent Peterson as a means for forcing buildings to "measure up" to efficiency standards.

The annual clambake at the Webster White House kicked off the Rochester Chapter program season. Thank you to all of the members who joined us for this event as it was our most successful clambake ever! Mr. Raul Santiago from Eastman Business Park discussed energy conservation and the "Energy Road Map". He is the person charged with the monumental task of reducing energy consumption at the Park. It's no secret that Kodak is now a leaner version of its former self, so the cynic might say "Simple. Just shut down some old buildings." The beauty of the Road Map is that its basis *is* that simple. The first step is to sell buildings and demolish high maintenance buildings. Raul drew the comparison between "sexy" energy conservation measures including wind farms, PV arrays, and tidal waves to common sense measures. The latter is Kodak's philosophy in their approach to energy conservation. They go down to the plant floor and find leaky steam traps, unoccupied yet conditioned buildings, malfunctioning compressed air systems, and they fix them. Immediately. Raul also discussed the seven forms of waste including transportation, inventory, waiting, overproduction, overprocessing, and defects. These all lead to excessive energy being consumed. You probably won't see new PV arrays or windmills going up around Eastman Business Park anytime soon, but I think you'll find Mr. Santiago and his team at the Park being stewards for this common sense approach to energy conservation. This is an approach that is within the means of all building owners, and facilities.

Jeff Davis, PE, 2009-2010 President



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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, 09/25/09

- [DOE to Fund up to \\$454 Million for Retrofit Ramp-Ups in Energy Efficiency](#)
- [22 States get \\$354 Million for Energy Efficiency and Conservation Projects](#)
- [Reports Emphasize Monetary and Security Costs of Climate Change](#)
- [Massachusetts Solicits Proposals for Energy Solution Demonstration Projects](#)
- [DOE Delivers \\$36 Million to Pennsylvania for Energy Efficiency Projects](#)
- [DOE Announces \\$144 Million in Recovery Act Funding for the Smart Grid](#)
- [New DOE Campaign Encourages Everyone to "Stay Warm. Save Money"](#)



DOE to Fund up to \$454 Million for Retrofit Ramp-Ups in Energy Efficiency

U.S. Secretary of Energy Steven Chu announced a new \$450 million program designed to catalyze a nationwide energy upgrade that experts estimate could save \$100 million annually in utility bills for households and businesses. The Recovery Act's "Retrofit Ramp-Up" program will pioneer innovative models for rolling out energy efficiency to hundreds of thousands of homes and businesses in a variety of communities. Much like past roll-outs for cable TV or the Internet, the Department of Energy (DOE) intends to create models that, when undertaken nationally, will save consumers billions of dollars on their utility bills and make the huge savings of energy efficiency available to everyone.

The Request for Information (RFI) is for competitively selected local energy efficiency projects. This competitive portion of the Energy Efficiency and Conservation Block Grant (EECBG) Program will target community-scale retrofit projects that make significant, long-term impacts on energy use and can serve as national role models for grassroots energy efficiency efforts. The DOE is seeking public comment on this newly funded program under the Recovery Act. Public comment ends on Sept. 28, 2009.

The DOE is accepting feedback on both the competitively-selected portion of the EECBG program for up to \$390 million for neighborhood-scale building retrofits, as well as up to \$64 million for local governments that were not eligible to receive the formula grants announced earlier this year. The EECBG program empowers local communities to make strategic investments to meet the nation's long-term goals for energy independence and leadership on climate change.

This first topic area under the funding solicitation will target a select number of innovative programs that are structured to provide whole-neighborhood building energy retrofits. These will be projects that demonstrate a sustainable business model for providing cost-effective energy upgrades for a large percentage of the residential, commercial, and public buildings in a specific community. Possible approaches could include innovative partnerships between the public and private sector, utility retrofit and audit programs, alternative financing, retail partnerships, and others. The DOE will award up to \$390 million for these projects.

The second topic area for up to \$64 million is reserved for cities, counties and state-recognized Indian tribes that were not eligible to receive population-based formula grant allocations from DOE under the Energy Efficiency and Conservation Block Grant program. These funds are intended to help expand local energy efficiency efforts and reduce energy use in the commercial, residential, transportation, manufacturing, or industrial sectors.

View the Request for Information

(<http://doe-iipspr.doe.gov/iips/faopor.nsf/1be0f2271893ba198525644b006bc0be/daf445e535572106852576310046fae5?OpenDocument>).

Public comment is requested by Sept. 28, 2009. The funding opportunity announcement is expected to be released in early October, following the public comment period. For more information on the EECBG program, visit the program's Web site (<http://www.eecbg.energy.gov/>).

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Governmental Affairs Update (continued)

22 States get \$354 Million for Energy Efficiency and Conservation Projects

Energy Secretary Steven Chu announced that more than \$354 million in funding from the American Recovery and Reinvestment Act is being awarded to 22 states to support energy efficiency and conservation activities. Under the Department of Energy's Efficiency and Conservation Block Grant (EECBG) program, these states will implement programs that lower energy use, reduce carbon pollution, and create green jobs locally.

States receiving funding under this announcement include: Alabama, Arizona, Arkansas, California, Connecticut, Georgia, Illinois, Kentucky, Louisiana, Maryland, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Hampshire, New York, Rhode Island, Texas, Washington, Wisconsin, and Wyoming.

These 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 American Recovery and Reinvestment Act and provides formula grants to states, cities, counties, territories and federally-recognized Indian tribes nationwide to implement energy efficiency projects locally.

Energy efficiency and conservation projects that are eligible for awards 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 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/>).



Reports Emphasize Monetary and Security Costs of Climate Change

The significant challenges needed to convert the world's energy systems to sources that emit less carbon dioxide are giving pause to leaders throughout the world, but three recent reports highlight the overwhelming cost of inaction. Some have pointed to estimates made by the United Nations Framework Convention on Climate Change (UNFCCC), which pegged the global annual costs of adapting to climate change at \$40-\$70 billion, or about three Olympic Games per year—a cost that some may find acceptable, if they're able to continue business as usual. However, a new report published by the International Institute for Environment and Development (IIED) and the Grantham Institute for Climate Change at Imperial College London has found the real costs of adaptation to be two to three times greater than the UNFCCC estimate, because the earlier estimate didn't include key sectors such as energy, manufacturing, retailing, mining, tourism, and ecosystems. That could put the annual cost above \$200 billion. See the IIED press release (<http://www.iied.org/climate-change/key-issues/economics-and-equity-adaptation/costs-adapting-climate-change-significantly-under-estimated>) and the full report (<http://www.iied.org/pubs/display.php?o=11501IIED>). Two other reports take a closer look at the economic impacts in the United States. The Union of Concerned Scientists (UCS) found that unchecked climate change could result in hundreds of billions of dollars in damages to the United States. The report, an overview of more than 60 scientific studies, found costs were mainly driven by rising sea levels, more intense hurricanes, more flooding, declining public health, strained energy and water resources, and impaired transportation infrastructure. UCS notes that the cost of taking preventative action would be dramatically less than the cost of allowing climate change to continue. Meanwhile, the American Security Project (ASP) has issued a new report highlighting dire security threats to the United States if climate change remains unchecked. ASP warns of competition for dwindling resources, especially water, and how that can result in weakened or poorly functioning governments throughout the world. See the UCS press release (http://www.ucsusa.org/news/press_release/failing-to-curb-global-0275.html) and report (http://www.ucsusa.org/assets/documents/global_warming/climate-costs-of-inaction.pdf) and the ASP press release (http://www.americansecurityproject.org/press/american_security_project_us_will_face_dire_security_consequences_if_climate_change_is_left_unchecked) and report (http://www.secureamericanfuture.org/resources/ClimateSecurityIndex_lowres.pdf).

Massachusetts Solicits Proposals for Energy Solution Demonstration Projects

As part of Governor Patrick's Massachusetts Recovery Plan to secure the state's economic future, the Department of Energy Resources (DOER) is inviting proposals for \$15 million in American Recovery and Reinvestment Act (ARRA) funding for projects that demonstrate dramatic increases in energy efficiency in buildings across the Commonwealth. The stimulus funding opportunity is open to both public and private entities, including businesses, hospitals, universities, municipalities, community organizations, and others.



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Governmental Affairs Update (continued)



DOER's Program Opportunity Notice seeks proposals for innovative projects offering solutions to long-standing building energy challenges. The Massachusetts High Performance Buildings Grant Program is a key component of the Commonwealth's State Energy Program for investment of ARRA funding, which the US Department of Energy approved in July. Demonstrating ways to significantly reduce energy use, as well as substituting clean energy alternatives for fossil fuel, the program will pave the way for widespread building energy performance improvements beyond measures provided through existing state- and utility-run efficiency programs.

Successful proposals, which are due to DOER by October 30, must be shown to work throughout Massachusetts in buildings of similar size and type. Proposals must also provide evidence that projects will yield significant economic, energy, and environmental benefits.

DOER's solicitation of proposals for high performance building projects is in line with Governor Patrick's March 2008 challenge to the building industry to put the Bay State on a path toward zero net energy buildings. A zero net energy building generates energy on site with clean renewable resources equal or greater to the total amount of energy consumed over the course of a year. The Governor's Zero Net Energy Task Force recommended two state building projects to strive for near zero net energy performance.

The High Performance Buildings Grant Program is designed to advance the state's clean energy policy agenda, which includes statutory goals to reduce fossil fuel use in buildings 10 percent and to decrease electric load 25 percent by 2020.

DOER is seeking projects that address one or more of these challenges:

- Demonstrate a deep energy retrofit at one or more existing buildings that achieves at least a 50 percent reduction in annual energy consumption at each building;
- Demonstrate technologies such as high efficiency and ultra low emissions biomass-fired boilers and furnaces, solar thermal space heating and/or cooling systems, passive and/or active thermal energy storage; and high efficiency cold-climate heat pumps;
- Implement high impact energy conservation measures in buildings heated with fuel oil, propane and other unregulated fuels;
- Mobilize community approaches to achieve energy efficiency improvements and renewable energy deployment through significant increases in the rate at which energy customers choose to participate in energy savings programs.

Awards under this program are expected to range from \$500,000 to \$5 million each for projects that are ready to begin immediately after the award and can be completed within three years. DOER expects to announce awards in December.

For more information see mass.gov/doer

DOE Delivers \$36 Million to Pennsylvania for Energy Efficiency Projects

DOE awarded more than \$36 million in American Recovery and Reinvestment Act funding to support energy efficiency and conservation projects in communities across Pennsylvania. Under DOE's Energy Efficiency and Conservation Block Grant (EECBG) Program, the funds will be channeled to Pennsylvania's State Energy Office (namely, the Office of Energy & Technology Deployment (<http://www.depweb.state.pa.us/energy/cwp/view.asp?a=3&Q=482723>) within the Pennsylvania Department of Environmental Protection) as well as local cities and counties to help lower energy use, reduce carbon pollution, and create green jobs across the Keystone State.

Pennsylvania's Office of Energy & Technology Deployment will receive more than \$23.5 million to establish the "PA Conservation Works! Program" which will award grants to local governments and non-profit entities with shovel-ready projects that promise energy efficiency improvements of at least 25%. Eligible projects include the installation of energy-efficient streetlights; retrofitting of high-efficiency furnaces, boilers, and air conditioners; efficiency upgrades at wastewater treatment plants; and the deployment of renewable energy technologies on or in government buildings. Other recipients of the EECBG awards include Allegheny and Delaware Counties, as well as Abington Township, Altoona, Cheltenham Township, Middleton Township, and York. DOE is continuing to review applications and will be making awards to additional cities and counties in the weeks to come. See the DOE press release (<http://www.energy.gov/news2009/8021.htm>).



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Governmental Affairs Update (continued)

DOE Announces \$144 Million in Recovery Act Funding for the Smart Grid

DOE announced more than \$144 million in American Recovery and Reinvestment Act funds for the electric power sector, including a \$100 million solicitation for smart grid workforce training programs, plus \$44 million in awards to state public utility commissions. The workforce initiative will expand job creation and career advancement opportunities associated with smart grid and electricity transmission projects, and will help establish training programs for workers in the utility industry and electrical manufacturing sectors who will play a key role in modernizing the country's electrical grid.

The training will follow a two-pronged approach. First, \$35-40 million is tabbed to develop training programs, strategies, and curricula that will be used as models for how to train or retrain workers in the electric power sector, with a focus on achieving a national smart grid to enable clean energy technologies. This funding will be open to a range of applicants, including utilities, colleges and universities, trade schools, and labor organizations. Secondly, \$60-65 million will be spent to conduct workforce training programs for new hires and retraining programs for electric utility workers and electrical equipment manufacturers to further their knowledge of smart grid technologies and how to implement those technologies.

Also, state public utility commissions (PUCs), which regulate and oversee electricity projects in their states, will receive more than \$44.2 million in Recovery Act funds to hire new staff and retrain existing employees to ensure they have the capacity to quickly and effectively review proposed electricity projects. The funds will help the individual state PUCs accelerate reviews of the large number of electric utility requests that are expected under the Recovery Act. State PUCs will be reviewing electric utility investments in projects such as energy efficiency, renewable energy, carbon capture and storage, transmission lines, energy storage, smart grid, demand response equipment, and electric and hybrid-electric vehicles. Awardees include the PUCs in every state except Massachusetts and Nebraska. See the DOE press release (<http://www.energy.gov/news2009/8030.htm>), the solicitation for workforce training (<https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000152&agency=DOE>), and the full list of grantees (http://www.oe.energy.gov/DocumentsandMedia/ARRA_State_PUC_Awards.pdf).

New DOE Campaign Encourages Everyone to "Stay Warm, Save Money"

DOE has launched a new Web site and educational campaign to help people be more energy efficient and save on their energy costs this winter. Titled "Stay Warm, Save Money," the campaign focuses on providing simple, cost-effective, energy-saving solutions for individuals and small businesses. The "Stay Warm, Save Money" Web site lists no-cost and low-cost energy-savings tips, financial assistance links, long-term solutions for saving energy, and a blog that covers energy-saving topics. You can also find information on performing an energy audit to find out where your home is losing energy—and money! See the Stay Warm, Save Money Web site (<http://www.energysavers.gov/seasonal/>).



Senator Roy McDonald and Lynn Bellenger
Chapter Regional Conference (CRC), August 2009



Raúl Santiago P.E., Kodak Rochester Energy Manager, Eastman Kodak Company -
September Clambake Chapter Meeting Speaker

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.



Corporate Office:

2430 North Forest Road, Suite 106
Getzville, New York 14068

Energy Engineer

Company Description

PRES Services is a national provider of energy solutions to reduce the operational cost bottom line for customers coast to coast. PRES makes buildings comfortable, safe, productive, more efficient and less costly to operate with a full range of services and solutions. At PRES, your skills will be challenged and encouraged to grow with the advancement of technologies.

Job Description

Applicants should possess the following skills, attributes and experience:

- Capability and leadership skills to work independently out of a home office.
- Building auditing and analysis of existing building systems performance.
- Ability to apply building energy simulation programs, other energy calculation software, and preparation of detailed spreadsheet calculations as it relates to building systems.
- Develop design or retrofit concepts, write accurate scope of work descriptions, calculate savings potential, and estimate budget implementation cost.
- Prepare detailed facility audit reports and other related technical writing documents.
- Participate in the identification and qualification of potential client project opportunities.
- Coordinate the procurement of equipment and project implementation.
- Assist in commissioning activities for retrofit solutions to ensure the design meets performance requirements and the customer's expectations.

Qualifications

Degree in Engineering or other related field. This role requires applicable experience in engineering, construction, or facility operations with direct involvement in energy systems and/or energy reduction initiatives. Strong written and verbal communication skills and is comfortable working in customer-facing situations. Annual average travel is estimated at 30%.

Please forward resumes to Jeff Close at jeff.close@pres-services.com

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	0	0	0	0	0

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

Clever Engineer

A mathematician and an engineer are sitting next to each other on a long flight. The mathematician leans over to the engineer and asks if he would like to play a fun game. The engineer just wants to take a nap, so he politely declines and rolls over to the window to catch a few winks.

The mathematician persists and explains that the game is real easy and lots of fun. He explains, **"I ask you a question, and if you don't know the answer, you pay me \$5. Then you ask me a question, and if I don't know the answer, I'll pay you \$5."**

Again, the engineer politely declines and tries to get to sleep. The mathematician, now somewhat agitated, says, "Okay, if you don't know the answer, you pay me \$5, and if I don't know the answer, I'll pay you \$50!"

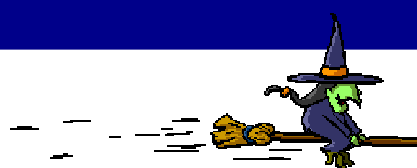
This catches the engineer's attention, and he sees no end to this torment unless he plays, so he agrees to the game. The mathematician asks the first question. "What's the distance from the earth to the moon?"

The engineer doesn't say a word, but reaches into his wallet, pulls out a five-dollar bill and hands it to the mathematician. Now, it's the engineer's turn. He asks the mathematician "What goes up a hill with three legs and comes down on four?"

The mathematician looks up at him with a puzzled look. He takes out his laptop computer and searches all of his references. He taps into the air phone with his modem and searches the net and the Library of Congress. Frustrated, he sends e-mail to his co-workers all to no avail.

After about an hour, he wakes the engineer and hands him \$50. The engineer politely takes the \$50 and turns away to try to get back to sleep.

The mathematician then hits the engineer, saying, **"What goes up a hill with three legs, and comes down on four?"** The engineer calmly pulls out his wallet, hands the mathematician five bucks, and goes back to sleep.





ASHRAE

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
Chapter 11 - Rochester, New York

Society News:

Proposed High-Performance Building Standard 189.1 Draws Nearer to Publication Date

ATLANTA – The total building sustainability package, addressing everything from design and commissioning to plans for high-performance operation, is covered in a proposed green building standard currently open for public review.

Proposed Standard 189.1, *Standard for the Design of High Performance, Green Buildings Except Low-Rise Residential Buildings*, is being developed by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) in conjunction with the Illuminating Engineering Society (IES) and the U.S. Green Building Council (USGBC). The standard is slated to be the first code-intended commercial green building standard in the United States. It is expected to be published in early 2010.

"This is one of the most highly-anticipated building standards ever released," ASHRAE President Gordon Holness, said. "ASHRAE's commitment to excellence and transparency in true consensus standards development is reflected in the quality of and interest in Standard 189.1."

The proposed standard is currently open for a fourth public review. It is an "independent substantive change" review so only changes from the third public review, which ended in June 2009, are open for comment. The public comment period started Sept. 18 and remains open until Nov. 2, 2009.

"IES is pleased to co-sponsor this standard for high-

performance green buildings and supports the goal shared with ASHRAE and USGBC of environmental responsibility toward current needs as well as those of future generations," Rita M. Harrold, IES director of technology, said.

"The key to a prosperous future is cost-efficient and energy-saving green buildings and is imperative as we move forward," Scot Horst, senior vice president of LEED, USGBC, said. "Standard 189.1 will help increase adoption of green building practices, leading to a prosperous and sustainable future for our nation."

"The standard, once published, provides a 'total building sustainability package' for those who strive to design, build and operate green buildings," Kent Peterson, chair of the committee writing the standard, said. "From site location to energy use to recycling, this standard will set the foundation for green buildings through its adoption into local codes. The dedication of those tasked with writing the standard has been unwavering. There are no short cuts to creating a quality, comprehensive green building standard that reflects input from all corners of the building community."

Among the biggest proposed changes is in the exterior light pollution section, including elimination of the Total Site Lumen approach. The draft of the standard that went out for a third public review earlier this year required users to limit exterior lighting according to one of three methods for determining total initial lamp lumens, or light output, for all outdoor lighting. While site lumen

limits are being explored in other model lighting pollution efforts, it complicates application and enforcement significantly, according to Nick Ferzacca, vice chair of the committee and IES representative. The current draft maintains the use of Backlight, Uplight and Glare ratings from the IES Luminaire Classification System for Outdoor Luminaires (IESNA TM-15-07). Also, exterior lighting power densities and lighting zone definitions were modified to align with recent ASHRAE 90.1 addenda.

Another proposed change is in the Outdoor Air Delivery Monitoring section. Under the proposal, measurement of outdoor airflow rates at the system level would be required for all spaces ventilated by mechanical systems, except for constant volume systems. The exception allowing CO₂ monitoring as an alternative for systems serving only densely occupied spaces has been removed. Also proposed would be removal of all requirements for outdoor airflow monitoring in naturally ventilated spaces.

The standard development committee will meet again to review comments received during this "independent substantive change" public review during the USGBC GreenBuild conference in November.

To view a copy of the public review draft, go to www.ashrae.org/publicreviews. Copies of public review drafts are only available during public review periods.

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From the Editor's Desk

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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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