ASHRAE Rochester

VOLUME 3, ISSUE 2 SEPTEMBER 22, 2008

INSIDE THIS ISSUE:

Main Program / Tour:

"LEED and Green Building Design, Tour of R I T CAST Building"

Please join the Rochester Chapter of ASHRAE as we tour the College of Applied Science and Technology (CAST) at the Rochester Institute of Technology. LEED is a nationally recognized rating system that acknowledges energy efficiency and environmentally conscious building methods. CAST has attained a LEED rating of Gold for it's innovative use of building materials and building systems. The design team will present the LEED measures that were pursued, challenges faced, and lessons learned. Please join us beginning at 5:00 in the CAST building. Dinner will be served at 5:30 followed by the presentation and tour.

When: Monday, October 13, 2008

Time: 5:00 PM—Networking

5:30 PM—Dinner

Followed by presentation and tour

Where: RIT CAST Building

Cost: $25 (includes dinner, program and tour).

RSVP: Please RSVP by 2:00 PM Friday, October 10th to Rob Wind, Phone: 585-341-3172 or rwind@ibceng.com

RIT's first green, LEED-certified building dedicated April 18, 2008.

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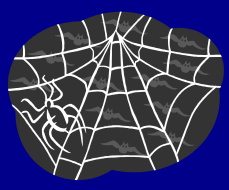


ASHRAE 2008/2009 MEETING SCHEDULE

DATE	EVENT	LOCATION	SCHEDULE
10/13/2008 Membership Night	LEED and Green Building Design with tour of RIT CAST Building. Tech Session—LEED measures taken for the CAST project DRC visit	RIT CAST Building	5:00 PM Networking 5:30 Tech Session 6:15 Dinner, 7:00 Tour
11/10/2008	Building Retrofit for Energy Efficiency Gordon Holness, ASHRAE Distinguished Lecturer	Mario's	12:00-2:00 PM Lunch
12/8/2008	Using the updated ASHRAE Standard 62.1 (possible mini-siminar)	Wishing Well Party House	5:30 PM Tech Session Dinner 7:00 PM Main Speaker
1/12/2009 Student Night	Commissioning—Case studies, requirements for engineering specifications. Al Rodgers, Steve Beck. Tech Session—An introduction to Commissioning (What it IS and What it is NOT).	Mario's	12:00-2:00 PM Lunch
2/9/2009 Membership Night	Using the updated ASHRAE Standard 90.1 (possible mini-seminar)	Wishing Well Party House	5:30 PM Tech Session Dinner 7:00 PM Main Speaker
2/14/2009	Valentine's Dance	Lodge at Woodcliff	6:30 PM Reception 8:00 PM Dinner 9:15 PM Dessert
3/9/2009	Sustainable Design and the use of Standard 189 Thomas Lawrence, PhD, PE, LEED AP—ASHRAE DL Tech Session—Applications for custom air handlers	Mario's	12:00-2:00 PM Lunch
4/13/2009	Refrigeration Tour—(possible) High Falls Brewery	High Falls Brewery	5:30 Dinner 7:00 Tour
5/19/2009	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 by: Joseph Van Cura

Greetings once again to all ASHRAE members and friends.

I have just come back from a fantastic Chapter Regional Conference (CRC). It was held this year in beautiful Mystic Connecticut.

The Rochester Chapter was well represented by this years delegate Casey Bernhard, myself as alternate, Jeff Davis, Al Rodgers, Lee Loomis and Peter Oppelt.

A number of awards were presented to the Rochester Chapter, reflecting the efforts of last year's committees under the Presidency of Casey Bernhard.

Henry Manczyck again represented The Rochester Chapter with a first place Technology award in the health care facilities category. This award was the result of Henry's efforts in energy conservation measures implemented and facilities systems and equipment improvements at the Unity Hospital of the Unity Health System in 2007. This award at our local level allows Henry to be considered for evaluation at the National level.

Our kickoff clambake always proves to be a great event and this year it will be no different.

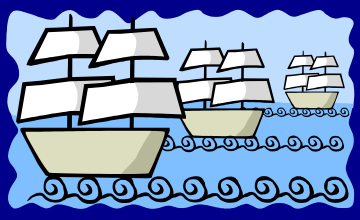
I would like to thank Mike Mauro of JT Mauro Co. Inc for providing us with an update on the progress of existing projects as well as potential new projects slated for Construction at the University of Rochester and Strong Memorial Hospital. Mike discussed the process that is required in order to coordinate a medical facility expansion while having to maintain hospital protocol in the existing facility. He enlightened the audience as to the level of coordination that is required compared to a standard construction project that does not have to deal with these obsticles.

It is nice to see progress being made in the Rochester community. Strong Hospital and the University of Rochester lead the way for growth in the Rochester area, and continue to be on the leading edge of technology. This leading edge enables great things to happen in the field of science and medicine. This Technology spills over in all segments of our community in the form of employment opportunities.

I would like to thank all the members that attended the Clambake at the White House Lodge in Webster Park. We were fortunate to have beautiful weather and a wonderful time.

I am looking forward Our next event Slated for October 13th . ASHRAE will be discussing LEED and Green Building design along with a tour of the RIT CAST building. This will be held at The CAST building on the RIT campus beginning at 5:00 PM . I look forward to seeing all of you there!

Joseph Van Cura, 2008-2009 President



The USGBC Genesee Region and RGBN/CEI Presents:

Where:

Water Bureau Building

10 Felix St
Rochester, NY
14608

When:

3:00-4:30

Cost:

None!

Tour of the...
LEED Gold
City of Rochester
Water Bureau Building

with Mike Bushart

Friday September 26th, 2008
3:00 p.m.

Join us for a discussion and tour of the
first LEED-certified municipal building
in Rochester!

The project began in the spring of 2005 with the redevelopment of this **"Brownfield" site** which included extensive soil and groundwater remediation. The architects, engineers and contractors employed a combination of best practices and innovative methods to achieve a LEED Gold rating. A few of the credits earned are: SS8 **Light Pollution Reduction**, WE2 **Innovative Wastewater Technologies**, EA1 **Optimize Energy Performance** (5 credits, 35% better than baseline), MR2 **Construction Waste Management** (2 credits), EQ8 **Daylight and Views** (2 credits) and ID1 Innovation and Design: **Groundwater Treatment**.

It is an 84,500 sq. foot complex on a 7.4 acre site. It houses the Bureau's Divisions of Administration, Resource Management & Budget, Engineering, Maps & Records, Water Dispatch, Grid Repair, Hydraulic Maintenance, Meter Services, Parts & Materials, Street Lighting Repair and Parking Meter Operations. The Bureau is a unit of the Dept. of Environmental Services.

Please confirm attendee names by email to msommerman@bergmannpc.com or by phone @ 585-232-5135.
Thank you!

Your technical training provider presents

Air Conditioning Fundamentals 2008

Target Audience: Any engineer, designer, technician, or assistant who wants to broaden their base in the fundamentals, will greatly benefit from this training.

Primary Benefit: Students will enjoy learning as much practical knowledge as possible about Air Conditioning Fundamentals. Students won't waste a great deal of time in theory. The typical student can immediately apply what he/she learns. Past attendees have boosted their overall confidence and found many ways to apply their recently acquired knowledge.

Comments from past attendees:

"**Practical, helpful, essential information** provided in a friendly and enthusiastic manner."
Bill Bishop, Mechanical Designer – Rochester, NY

"Joe really knows the details and step by step ways to teach a hard topic to understand. **The best training I have had.** Joe is a great teacher."
Thomas Price – Estimator/Project Manager – Philadelphia, PA

"Joe has an effective teaching style that delivers a lot of technical information in an amount of time in a way that **everyone in the classroom can easily comprehend and understand to use in their field."**
Andrew Davin – Mechanical Designer – Rochester, NY

"This was awesome! **Engineering made simple.** Joe Becker is one of the best!"
Jamie Chudyke – HVAC Mechanic – Rochester, NY

2008 Course Offerings (Rochester, NY): (all classes are 3-days; Tuesday – Thursday)

1. **[ ]** Oct 7-9 '**Airside Fundamentals- I'** (Load Design and Psychrometrics)
2. **[ ]** Nov 18-20 '**Airside Fundamentals- II'** (Duct Design, Fans & Fan Laws, Acoustics and IAQ)

Registration Deadline: Each course will be filled on a first-come-first-reserved basis.

Payment Deadline: Complete Payment must be received prior to the start of the class.

Contact: Joe Becker, Becker Learning / 5980 Sheppard Road / Dansville, NY 14437
Phone: (585) 317-0000 Email: BeckerLearning@yahoo.com

More Details for 3- day courses:

Where: The specific Henrietta, NY location will be decided at least 30-days before the class & all attendees will be emailed all appropriate information in time to make hotel reservations.

Food: Lunch, mid-morning and mid-afternoon snacks & drinks are provided.

What is not included: Transportation, other meals & lodging.

Travel: **Arrival:** Since the seminar starts at 8:00 a.m., plan to arrive the night before.
Departure: You can book flights out of Rochester International Airport after 6:00 p.m. on Thursday since our Henrietta, NY location is less than 10-minutes from the airport.

Registration: Please fill out this form for each person attending, and mail along with a **Check** or **Purchase Order** (made out to 'Becker Learning') to: **Becker Learning / 5980 Sheppard Road / Dansville, NY 14437**

2008 Courses: (check all that apply) 1. [ ] Airside-I 2. [ ] Airside-II

Name:_____ Title: _____

Company: _____

Address: _____

Phone:( ) Email:

# of Courses	$/course	Total Cost $	Check # or PO #
	$1,000		

Authorizing Person

Printed Name	Signature	Date

***If a PO is given, full payment must be received prior to the first day of class.

Cancellation Policy:

If someone cancels 60-days prior to the start of the class => no cancellation charge.
If someone cancels 30-60 days prior to the start of class => 50% cancellation charge
If someone cancels less than 2-weeks before the start of class, or simply doesn't show up => charged the full amount

Teaching Methodology:

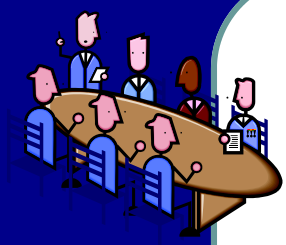
Similar to the way Joe taught nine classes in the Graduate Training Program of The Trane Company, students will learn a concept and then immediately apply this new knowledge with an application problem. Quiz/testing will also be used to measure the overall effectiveness of the teaching. In this way, the program receives continual improvement through direct feedback.

About the Instructor:

Joe Becker is a graduate of the University of Wisconsin-Madison with degrees in Naval Science and Industrial Engineering (1979). He is also a Graduate from the U.S. Naval Nuclear Power School at Mare Island, California (1975). Joe is a registered Professional Engineer.

After nine years in the Navy, Joe resigned his Commission in the Civil Engineer Corps. He joined The Trane Company as a Systems Engineer in the C.D.S. computer software design group where he spent a great deal of time running Trace Building Energy Analysis programs as well as teaching others how to use a variety of powerful C.D.S. software tools. He also worked as a Marketing Engineer in the Variable Air Volume Product Group. During his last 5 years in Trane Headquarters, he served as the Manager of Technical Training, where his primary responsibility was to teach the technical subjects to those attending Trane's premier six month long Graduate Training Class. Joe left Headquarters in 1990 to join the Rochester, NY field sales office as a sales engineer. He distinguished himself by earning Trane's coveted Top-10 Club three years in a row before being promoted to the Rochester Sales Manager in 1997. The following year he was given the Syracuse sales management responsibilities as well. Joe was the Regional Sales Manager of the Northeast Territory from January 2005 through March 2007.

Joe currently works part-time for Trane's NE Territory and provides technical training through Becker Learning.



ASHRAE Region I Executive Committee 2008-2009

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ARC—Assistant & Regional Chair & Treasurer:	Spencer Morasch, Jersey Central Power Light Ph: 732-212-4133 smorasch@firstenergycorp.com
Nominating Committee Member:	Emery Otruba, PE Ph: 518-686-4436 eotruba@verizon.net
Nominating Committee Alternate:	Cliff Konitz Ph: 845-297-5864 c.konitz@verizon.net
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RVC Research Promotion:	Ron Swarthout Ph: 607-754-7590 rwswarthou@cs.com
RVC Chapter Technology Transfer:	Lee Loomis, Center Environmental Info Ph: 585-738-3079 leeloom@aol.com
RVC Student Activities:	Richard Vehlow, NYS Office General Srvcs Ph: 518-486-1510 Rev1969@gmail.com
Regional Chapter Programs:	Peter Oppelt, R. F. Peck Ph: 585-697-0836 x103 poppelt@rfpeck.com
Regional Refrigeration Chair:	(Position Vacant)
Regional Historian:	Phil Knowlton, Knowlton Associates Ph: 860-642-3970 pbknowlton@comcast.net
Regional Electronics Communication Chair & Newsletter Judge:	Heather Nowakowski, Roswell Park Ph: 716-845-8144 Heather.nowakowskie@roswellpark.org

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, 09/12/08

Massachusetts Acts Address Biofuels, Green Jobs, and Greenhouse Gases

Massachusetts Governor Deval Patrick recently signed into law three energy-related bills that will promote advanced biofuels, support the growth of the clean energy technology industry, and cut the emissions of greenhouse gases within the state. The Clean Energy Biofuels Act, signed in late July, exempts cellulosic ethanol from the state's gasoline tax, but only if the ethanol achieves a 60% reduction in greenhouse gas emissions relative to gasoline. The act also requires all diesel motor fuels and all No. 2 fuel oil sold for heating to include at least 2% "substitute fuel" by July 2010, where substitute fuel is defined as a fuel derived from renewable non-food biomass that achieves at least a 50% reduction in greenhouse gas emissions. The requirement for both motor diesel fuel and heating oil increases by a percentage point per year until 2013, after which it holds steady 5%. The act also allows the state to expand the requirement to other forms of fuel oil, and it requires the state to work to establish a low-carbon fuel standard under the Regional Greenhouse Gas Initiative. See the full text of the biofuels act (http://www.mass.gov/legis/laws/seslaw08/sl080206.htm).

In early August, Governor Patrick signed two additional bills: the Green Jobs Act and the Global Warming Solutions Act. The Green Jobs Act will support the growth of a clean energy technology industry within the state, backed by $68 million in funding over 5 years. The Global Warming Solutions Act requires a reduction of greenhouse gas emissions in the state to 10%-25% below 1990 levels by 2020 and to 80% below 1990 levels by 2050. Under the act, the Massachusetts Department of Environmental Protection will carry the burdens of determining the baseline level of emissions in 1990 and creating a plan to meet the future emissions limits, including the establishment of interim limits for 2030 and 2040. See the full text of the acts for green jobs (http://www.mass.gov/legis/laws/seslaw08/sl080307.htm) and greenhouse gas reductions (http://www.mass.gov/legis/laws/seslaw08/sl080298.htm).

IEA Report Urges Greater Use of Combined Heat and Power

A new report from the International Energy Agency (IEA) makes the case for combined heat and power (CHP) as a proven, reliable, efficient and cost-effective technology. The report argues that CHP is not being fully utilized by all countries, but, promisingly, is enjoying a comeback in some parts of Europe. CHP uses internal combustion energy to generate electricity while capturing excess heat for water and space heating in buildings. According to the report, greater use of CHP globally could improve efficiency dramatically in the heat and electricity sectors, resulting in a 4% reduction in CO_2 emissions from new generation by 2015, a reduction in transmission and distribution investment of around $795 billion over the next 20 years, and lower electricity costs for end users.

In 2005, the U.S. generated less than 10% of the nation's electricity from CHP. In contrast, Denmark generates 40% of its power from CHP, and Finland, Russia, Latvia and the Netherlands generate a third to half of their energy with the technology. Germany is aiming to double its CHP energy component to 25% by 2020 with new legislation that will pay CHP owners for every excess kilowatt-hour they generate and sell to the grid. The report also points to some important historical barriers to the adoption of CHP, including lack of integrated urban heating and cooling supply planning, electricity grid access and interconnection regulations, lack of knowledge about CHP benefits and savings, and the lack of an agreed methodology to recognize energy-saving and environmental benefits.
For a copy of the report, see http://books.nap.edu/catalog.php?record_id=11756.

Download *Combined Heat and Power: Evaluating the Benefits of Greater Global Investment*, http://www.iea.org/Textbase/Papers/2008/CHP_report.pdf.

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Governmental Affairs Update (continued)

NSF Launches Green Energy Grid Center

The National Science Foundation (NSF) announces an award to North Carolina State University and its partners to establish a new NSF Engineering Research Center (ERC). The ERC will develop interdisciplinary research and education programs that address an important energy issue and provide the foundation for new industries through innovation. NSF will invest approximately $18.5 million in the Center over the next five years.

Since 1985 the ERC program has fostered broad-based research and education collaborations in close partnership with industry that focus on making technological breakthroughs and developing new products and services. A new generation of five NSF ERCs will place a greater emphasis on innovation and entrepreneurship and on international collaboration and cultural exchange.

The NSF ERC for Future Renewable Electric Energy Delivery and Management (FREEDM) Systems will conduct research to transform the nation's power grid into an efficient network that integrates alternative energy generation and novel storage methods with existing power sources. This new, distributed network would permit any combination and scale of energy sources and storage devices through standard interface modules. The Center's overall goal is to facilitate the use of green energy sources, reduce the environmental impact of carbon emissions, and alleviate the growing energy crisis.

The NSF ERC for FREEDM Systemswill be based at North Carolina State University (NCSU), in partnership with Arizona State University, Florida A&M University, Florida State University, and Missouri University of Science and Technology. Rheinisch-Westfälische Technische Hochschule (RWTH) Aachen University in Germany and the Swiss Federal Institute of Technology will contribute additional expertise and international perspectives.

The involvement of more than 65 industry partners, including many small start-up firms, will spur innovation and provide university students with first-hand experience in entrepreneurship. The NSF ERC for FREEDM Systemswill also work with 18 state and local government organizations in North Carolina, Arizona, California, Florida, New York, and Tennessee to stimulate innovation based on its research.

For more information see: http://www.nsf.gov/news/news_summ.jsp?cntn_id=112179&govDel=USNSF_56.

Canada's ecoENERGY Retrofit Incentives Expanded To Include Larger Buildings

Businesses and public institutions that own, manage or lease buildings with 10,000–20,000 square metres of floor space can now join homeowners and industry in applying for federal funding to invest in energy-saving upgrades. Multiple buildings, such as those on a university campus, can also be included in a single project.

For more information see: http://oee.nrcan.gc.ca/commercial/financial-assistance/existing/retrofits/index.cfm?attr=0.

Provincial Action on Climate Change Heats Up

Most provinces are stepping up with strong targets and policies to reduce greenhouse gases in the absence of federal leadership on climate change, according to a new David Suzuki Foundation report released at the Council of the Federation meeting in Québec City. The report, titled *Provincial Power Play: Breaking Away from Federal Inaction on Climate Change* (http://www.davidsuzuki.org/files/DSF_ProvincialPowerPlay_Web.pdf), looks at provincial and territorial action on climate change, compares their greenhouse gas emissions, assesses their climate change plans and evaluates their records. Some provinces (British Columbia, Manitoba, Ontario and Québec) are leading the pack when it comes to putting real solutions in place. Other provinces and territories (New Brunswick, Nova Scotia, Prince Edward Island and Nunavut) have started taking action but require more effort to move forward. Others (Newfoundland, Yukon, Northwest Territories and Saskatchewan) have weak or vague climate plans. The report cites Alberta as the worst offender with "skyrocketing emissions and no plans to decrease them anytime soon."

DOE Awards $6.6 Million for State-Led Clean Energy Projects

The U.S. Department of Energy (DOE) announced that it will award $6.6 million in competitive grants for 15 state-level projects, nine of which focus on developing policy and regulations to support gigawatt-scale clean energy capacity, and six of which focus on developing advanced building codes. Of these awards, $4 million will go to the gigawatt-scale clean energy capacity projects, which will develop policy and regulatory frameworks that will enable gigawatt-scale clean energy, either through renewable energy or demand-side reductions. Although no cost share was mandated, state partners will contribute up to $1.8 million for these projects. The six advanced building codes projects will receive $2.6 million, which will assist states in developing and implementing residential, commercial, or overarching building codes. Along with its financial assistance, DOE will support these projects with ongoing technical assistance.

Of the nine clean energy capacity projects, three will go to states that are focusing on electrical grid infrastructure: Colorado will examine barriers and incentives to expand its transmission grid for renewable energy projects, while Hawaii and Maryland will examine policies for smart grid technologies that could encourage the use of renewable energy, demand-side management, and energy storage. Two states will focus on financing: Michigan will develop four pilot projects for utility financing of customers' cost-effective clean energy projects, with each loan repaid using a portion of the consumer's energy cost savings, while Wisconsin will draft regulations for low-interest loans for renewable energy projects. Wisconsin will also aim to convert up to 25 old, small coal-fired power plants to burn wood instead. In the Southeast, Georgia will develop a framework for integrating clean energy supplies into the energy infrastructure of Georgia, North

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Governmental Affairs Update (continued)

Carolina, and South Carolina, while South Carolina will seek to overcome barriers for coastal wind, wave, and tidal energy projects. And in terms of energy efficiency, Arizona will create a streamlined and cost-effective home weatherization program, while Maine will partner with the Northeast Energy Efficiency Partnership to develop regional protocols for evaluating, measuring, verifying, and reporting demand-side resource impacts.

For the advanced building code projects, Florida, Massachusetts, Nebraska, and Washington are improving their existing residential or commercial energy codes in order to produce a 30% energy usage reduction over the existing codes. In addition, North Carolina will update its state energy code by 2010, while California plans to build the California Building Energy Efficiency Standards Learning Management System, an online system that will educate building department processionals about enforcing its current building energy efficiency standards and the next standards update. See the DOE press release (http://www.energy.gov/news/6515.htm).

U.S. Wind Power Capacity Exceeds 20,000 Megawatts

The U.S. wind industry has doubled its generating capacity over the past two years, exceeding 20,000 megawatts in installed capacity, according to the American Wind Energy Association (AWEA). The wind industry trade group announced that U.S. installed wind capacity is now at 20,152 megawatts, producing enough electricity to serve 5.3 million average U.S. homes. The industry hit the 10,000-megawatt milestone in August 2006, just over two years ago, which means that the industry grew as much over the past two years as it did in the previous two-and-a-half decades. AWEA expects more than 7,500 megawatts of wind power capacity to be installed in 2008, bringing the total U.S. wind capacity to more than 24,000 megawatts by year end. However, the looming expiration of federal tax credits at the end of the year could cause the industry's growth spurt to sputter in 2009. See the AWEA press release (http://www.awea.org/newsroom/releases/Wind_Installations_Surpass_20K_MW_03Sept08.html).

To subscribe see http://www.ashrae.org/advocacy
You are currently subscribed to ashraeadvocacy as: garry.myers@ny.fk.com.
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ASHRAE Washington Office
1828 L Street, NW * Suite 906 * Washington, DC 20036
(202) 833-1830 * fax: (202) 833-0118 * washdc@ashrae.org
http://www.ashrae.org/advocacy

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.

2008-2009 Presidential Award of Excellence Summary

Chapter #	Chapter Name	Chapter Members / Students	Member Promotion	Student Activities	Research Promotion	Chapter Technology Transfer	History	Chapter Operations	Chapter PAOE Totals
11	Rochester	240 /26	0	0	0	0	100	60	160

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

Great Engineering Quote

Engineers aren't boring people, we just get excited over boring things.
--Anon.

Normal People vs. Engineers
Normal people believe that if it ain't broke, don't fix it.

Engineers believe that if it ain't broke, it doesn't have enough features yet.

The Top 10 Things Engineering School Didn't Teach
10. There are about 10 types of capacitors.

9. Theory tells you how a circuit works, not why it doesn't work.

8. Not everything works according to the specs in the databook.

7. Anything practical you learn will be obsolete before you use it, except the complex math, which you will never use.

6. Always try to fix the hardware with the software.

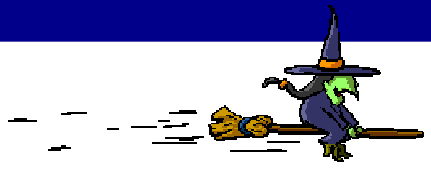
5. Engineering is like having an 8 a.m. class and a late afternoon lab every day for the rest of your life.

4. Overtime pay? What overtime pay?

3. Engineers rule the world until the next revision.

2. If you like junk food, caffeine, and all-nighters, then you should go into software.

1. Dilbert is a documentary.



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

Society News:

New Standard Provides Guidance on Testing Seismic Restraints for HVAC&R Equipment

ASHRAE Standard 171-2008 Published

ATLANTA – Forget what Jerry Lee Lewis said; there's *not* going to be a whole lotta shakin' going on with a new standard from the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). ANSI/ASHRAE Standard 171-2008, Method of Testing Seismic Restraint Devices for HVAC&R Equipment, provides manufacturers a standard way of testing such devices to prequalify products for earthquake-prone areas.

"This standard is a breakthrough for ASHRAE," says James Tauby, chair of the committee that wrote the standard. "This new national standard moves testing from the West Coast to the entire United States.

It is the first national standard for seismic restraint testing of non-structural components that does not require shaker table testing, which is the required testing form in many California projects. Standard 171 provides provide static-test procedures for determining the capacity of seismic restraints for HVAC&R equipment. These test procedures determine the maximum force a restraint can withstand without breakage or permanent deformation.

Manufacturers of vibration isolators, seismic restraint vendors and strut channels can use the standard to test their products' suitability for standing up to earthquake conditions, and consulting engineers can use the standard as a reference in specifications.

The cost of Standard 171-2008 is $39 ($31, ASHRAE members).

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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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