

ASHRAE Rochester



VOLUME 3, ISSUE 10

JUNE 8, 2009

INSIDE THIS ISSUE:

| | |
|----------------------------------|-------|
| Officer / Committee List | 2 |
| Chapter Election Results | 3 |
| President Msg | 4 |
| Student Activi- ties | 5 |
| Research Promo | 5 |
| Picnic / Golf Sponsors & Pics | 6,7 |
| CRC 2009 Info | 8,9 |
| Air Conditioning Fundamentals | 10,11 |
| Governmental Affairs | 12-14 |
| ASHRAE Conference | 15 |
| Society News | 16 |
| PAOE Summary | 16 |

"Go Green"



"Go Green" AT **George Eastman House** on Wednesday, June 10th, 2009 at 5:30 p.m.

The Eastman House has upgraded to a new HVAC energy efficient power plant.
In bringing all the agencies together (ASHRAE, BOMA, IFMA, AFE, UGBN and RBA),
you will see how the Eastman House has updated their operations to conform to the 21st Century.
There will be tours, vendor tables, discussions, etc.

WE WISH TO THANK OUR SPONSORS: Betlem, Building Control Systems, Edwards Engineering, RP Fedder, TH Herman, Kistler,
Kreig Construction, Metro Group, Modular Comfort Systems, NOCO, Leo J. Roth, Schuler-Haas, VJ Stanley and Temp. Press.,
FOR THEIR GENEROSITY AND SUPPORT.

For tickets and information you may call or e-mail Carolyn McIntosh at
585-271-3361 ext. 277 or e-mail cmcintosh@geh.org.

900 East Avenue, Rochester, NY





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ASHRAE Rochester Chapter 2009-2010 Election Results



Chapter Officers

| | |
|------------------------|--------------------|
| President | Jeff Davis |
| President Elect | Jim Browe |
| Vice- President | Jeff Ellis |
| Secretary | Michelle Sommerman |
| Treasurer | Robert Wind |

Board of Governors

Trish Jackson (3rd year)

Ed Burns (3rd year)

Jeff Close (2nd year)

Phil Masters (2nd year)

William Murray (1st year)

Tim Duprey (1st year)

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 Wal-

ter (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.



President's Message by: Joseph Van Cura



Friends of ASHRAE,

I would like to thank the ASHRAE membership for the privilege of allowing me to serve such a wonderful organization. Having been a member of the Rochester Chapter since 1981, it has taken me almost 30 years to truly appreciate all that the Board of Governors do for the Chapter. It is with great joy that I present to you the new slate of officer's for the 2009-2010 year. Please give all of them the support that you

provided me during my time serving. If anyone has an interest in getting involved, please feel free to contact me, or anyone one the Board of Governors.

Thank you again for a wonderful opportunity.

Sincerely
 Joseph Van Cura
 R.P.Fedder Corporation
 Rochester Chapter President

Joseph Van Cura, 2008-2009 President

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

Student Activities



Student Activities

We are finishing up the duct lab and the pipe flow experiments. Also, I am still looking for ASHRAE Fundamentals books. Please contact Al Rodgers at 585-325-6004 x108 or email: arodgers@pathfinderengineers.com

Al Rodgers, 2008-2009 Student Activities Chair

Research Promotion

DEADLINE for the 2008-2009 Rochester Chapter ASHRAE Research Promotion is June 30th. All checks and online contributions need to be at ASHRAE Headquarters by the deadline. Thank you to all who have contributed so far this year. Given the challenging economic times the Rochester Chapter is grateful that local companies and individuals value the benefits generated through ASHRAE Research. The projects funded through ASHRAE Research help improve the way we do business through new technologies, design guides, engineering handbooks, and testing laboratories. With only a month remaining in this year's campaign we hope that more local companies and individuals recognize the benefits that so many already have and participate with a donation of any level. Remember that for every dollar that is donated, ASHRAE Corporation matches 100%, meaning your contribution goes even farther.

A special thanks to this years current contributors:

| | | | |
|---------------------------------|-----------------------|---------------------------|------------------|
| Rochester ASHRAE Chapter | Silver - Major Donor | Mr Thomas E Piekunka | Honor Roll Donor |
| RP Fedder Corporation | Bronze - Major Donor | Mr Jeffrey C Ellis | Honor Roll Donor |
| RL Kistler, Inc. | Bronze - Major Donor | Mr Richard P Barrett | Honor Roll Donor |
| Slater Equipment Company Inc. | Antique - Major Donor | Mr Jeffrey S Close | Honor Roll Donor |
| Ms Lynn G Bellenger | Antique - Major Donor | Mr Ronald C Mead | Honor Roll Donor |
| Turner Engineering | Antique - Major Donor | Ms Michelle Sommerman | Honor Roll Donor |
| Trane Company | Honor Roll Donor | Mr Jeffrey C Bidell | Honor Roll Donor |
| H M Cross & Sons Incorporated | Honor Roll Donor | Mr Theodore K Knowles, Jr | Honor Roll Donor |
| Guckian Energy Systems LLC | Honor Roll Donor | Mr Charles G White | Individual Donor |
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| Air Systems Balancing & Testing | Honor Roll Donor | Johnson Equipment Company | Individual Donor |
| Mr Jeffrey M Davis | Honor Roll Donor | Mr Robert A Walton | Individual Donor |
| Mr Lee M Loomis | Honor Roll Donor | Genessee Heating | Individual Donor |
| Mr Joseph R Van Cura | Honor Roll Donor | Mr James D Ormond | Individual Donor |
| Mr James C Browe | Honor Roll Donor | | |

* Update 05-15-2009

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



ASHRAE Golf Tournament & Picnic, Ravenwood Golf Club - May 19, 2009



Thank you for supporting ASHRAE!!!

2009 ASHRAE PICNIC/GOLF TOURNAMENT

Gold Sponsors:

Gray Metal Products, Inc.
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Pathfinder Engineers, LLP
R.P. Fedder Corporation

Bronze Sponsors:

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R.F. Peck

Golf Tournament Longest

Drive Sponsor:

Labella Associates, P.C.

Golf Tournament

Closest to the Pin:

Air Systems Balancing &
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M/E Engineering, P.C.
R.L. Kistler, Inc.
Sustainable Performance Consulting, Inc.
TRANE
VJ Stanley, Inc.

Accommodations

The Desmond
660 Albany Shaker Road
Albany, NY 12211

Call (800) 448-3500 to reserve your room.
Special ASHRAE room rate of \$148 per night + taxes
if reserved by **August 6th, 2009**.
Reserve with Group Id: 11E8VV
www.desmondhotels.com



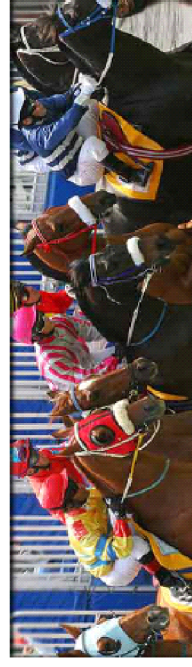
Area Attractions

- New York State Museum
- Saratoga Thoroughbred Race Track
- Saratoga Gaming & Harness Track
- U.S.S. Slater WWII Destroyer
- Half Moon historic sailing ship
- Historic Shaker Village
- Historic Downtown Saratoga
- Lark Street / Pearl Street Club Districts
- Adirondack Mtn. Region
- Historic Saratoga Spa
- Ft. William Henry/Lake George
- Saratoga Battlefield National Park
- Albany Aqua Duck Tours
- Hudson River Cruise

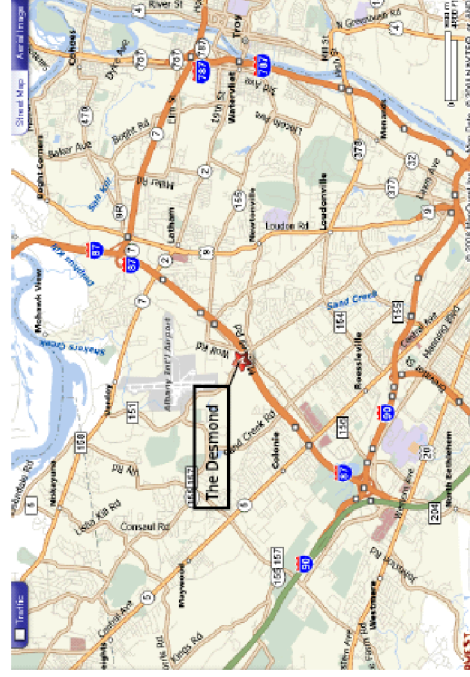


ASHRAE Region I Chapters Regional Conference

Hosted by: The Northeast Chapter Albany, NY



August 27th—29th 2009



The Desmond is conveniently located off Exit 4 of the Northway I-87 (Albany Airport Exit) . From North on I-87: Take Northway (I-87) to Exit 4 – Albany Airport exit. On ramp, bear to right. At end of ramp is traffic light, go left onto Old Wolf Road. At the next light, make a right, you will immediately see Desmond on your left. From South on I-87: Take Northway (I-87) to Exit 4 – Albany Airport Exit. At the end of the ramp, go left on Wolf Road. At next light, go left onto Albany-Shaker Road, pass under highway and go 200 yds, you will see Desmond on your left.

CRC 2009 Conference Agenda

Thursday, August 27

| | |
|---------------|--------------------------------|
| All Day | Registration |
| 9:30am—2pm | Golf |
| 2:30pm—4:30pm | Tech Session I: |
| | Steam Theory and Application |
| 2:30pm—4:30pm | Tech Session II: |
| | Nanotechnology |
| 4:15pm—6:30pm | Welcome & 1st Business Meeting |
| 7pm—10pm | *Welcome Reception |
| 10pm | Hospitality Suite Open |

Friday, August 28

| | |
|---------------|---|
| All Day | Registration |
| All Day | Hospitality Suite Open |
| 7am—9am | *Breakfast |
| 8am—9:45 | Caucus |
| 9:30am—4:30pm | Saratoga Curling for Companions (Lunch not included) |
| 10am—11:45pm | Chapter OPS Workshop |
| 12pm—1:30pm | *Lunch with distinguished lecturer |
| 1:45pm—3:45pm | Executive Session |
| 4:00pm—5:30pm | 2 nd Business Meeting |
| 6pm—8pm | *President's Dinner |
| 8pm—10pm | Casino Night |

| | |
|-------------|----------------------------------|
| 7:30am—10am | Registration |
| 7am—9am | *Breakfast |
| 8am—9:30am | 3 rd Business Meeting |
| 9am—11am | Aqua Duck Tour for Companions |
| 9:30am—12pm | Workshops |
| 12pm—2:30pm | *Awards Luncheon |

Saturday, August 29

Welcome Reception

Thursday, August 27th at 7 pm

The Desmond
Hotel & Conference Center



Registration Form

Complete one form per family attending

| | | |
|--------------------------|-------------------------------------|-------|
| <input type="checkbox"/> | Full Package w/Golf..... | \$440 |
| <input type="checkbox"/> | Full Package (no golf)..... | \$330 |
| <input type="checkbox"/> | Companion Package w/golf *..... | \$260 |
| <input type="checkbox"/> | Companion Package (no golf)*..... | \$150 |
| <input type="checkbox"/> | Children's Package (no golf)**..... | \$130 |
| <input type="checkbox"/> | One Day Registration**..... | \$205 |
| <input type="checkbox"/> | Awards Luncheon..... | \$65 |
| <input type="checkbox"/> | Technical Sessions..... | \$70 |

Deadline: **July 15th** to avoid late fees!

- * Includes all meals (see agenda)
- ** Includes Breakfast and Awards Luncheon (Sat.)
- *** For children under 10, includes kids meals
- Children 10 and over will pay the companion rates
- Rollaway beds are \$10 + tax payable to the hotel

Totals _____

Name _____

Companion _____

Address _____

City State Zip _____

Phone _____

Email _____

ASHRAE Chapter _____

Chapter Officer _____

Committee Chair _____

Please Join us for

Hors d'oeuvres!

Drinks!

Good Times!

For further information please contact:

Stan Westhoff, CRC General Chair

Unilux Advanced Manufacturing

518-344-7490

swesthoff@uniluxam.com

Make Checks Payable to:
 Northeast Chapter CRC 2009
 Mail to:
 ASHRAE Northeast Chapter
 PO Box 13933
 Albany, NY 12212-3933



Your technical training provider presents

Air Conditioning Fundamentals 2009

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.

2009 Course Offering (Rochester, NY): (This class is 3-days; Tuesday – Thursday)

1. [] Jul 14-16 'Airside Fundamentals- II' (Duct Design, Fans & Fan Laws, Acoustics and IAQ)
2. [] Aug 11-13 'Systems Fundamentals' (HVAC Systems, Ice Storage, Heat Recovery, etc...)

Note: For more information about each of these classes, log onto BeckerLearning.com

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 5:15 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

2009 Courses: 1. Airside-II 2. Systems Fundamentals

(check all that apply)

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. Since graduating from GTP's class of 83-11, he worked as a Systems Engineer in C.D.S., Marketing Engineer in the Variable Air Volume Product Group, Manager of Technical Training in GTP, Sales Engineer, Sales Manager in Rochester/Syracuse & I SL f or NE Territory.

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

Governmental Affairs Update

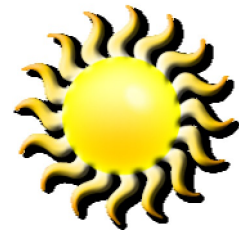
Welcome to ASHRAE's Government Affairs Update. Along with the redeveloped Government Affairs webpage, these periodic e-mail updates feature information on government affairs related activities of interest to ASHRAE members and others interested in the built environment. Archives of previous updates are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

Please 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, 6/5/09

- [Building Community Members Asked to Participate in Virtual Congressional Visits](#)
- [New York Launches 100-Megawatt Solar Project on Distributed State Sites](#)
- [DOE and World Energy Leaders Launch Partnership for Energy Efficiency](#)
- [Federal Agencies Team Up to Foster Growth in Green Jobs](#)
- [U.S. Energy-Related Carbon Dioxide Emissions Declined 2.8% in 2008](#)
- [NIST Announces Grants Supported by Recovery Act Funds](#)
- [DOE Announces Recovery Act Funding for Deployment of Geothermal Heat Pumps](#)
- [Vermont Passes Feed-In Tariff, Other Clean Energy Measures](#)



[Building Community Members Asked to Participate in Virtual Congressional Visits](#)

The building industry is encouraged to reach out to Congress to promote high-performance buildings during an upcoming High-Performance Buildings week. The High-Performance Building Congressional Caucus Coalition (HPBCCC) is hosting the first annual Virtual Congressional Visits Days during the week of June 15-19. Members of the HPBCCC participating organizations are asked to contact their member of Congress by phone and e-mail and encourage them to join the High-Performance Building Congressional Caucus and to focus on high-performance building issues. The week has been dubbed "High-Performance Buildings Week."

Co-Chairs of the High-Performance Building Congressional Caucus, Representative Russ Carnahan (D-MO) and Representative Judy Biggert (R-IL) introduced a Resolution (H.Res.492) supporting the goals and ideals of High-Performance Building Week.

Information on the program including fact sheets, contact templates, and participating organizations is available at www.hpbccc.org/cvd.

The High-Performance Buildings Congressional Caucus Coalition (HPBCCC) is a private-sector coalition providing guidance and support to the High-Performance Building Caucus of the U.S. Congress. The High-Performance Buildings Congressional Caucus Coalition will work with the Congressional Caucus to promote and showcase best practices in building design and focus on issues reflecting all aspects of high-performance buildings including: accessibility, aesthetics, cost-effectiveness, functionality, historic preservation, productivity, safety and security, and sustainability.

[New York Launches 100-Megawatt Solar Project on Distributed State Sites](#)

New York Governor David Paterson announced that the New York Power Authority (NYPA) will oversee a 100-megawatt (MW) solar project, consisting of separate installations at schools, municipal and commercial buildings, and other state sites. The energy produced will be sold to NYPA. The project is one of many recent efforts the state is making to produce 45 percent of its electricity through energy efficiency and renewable energy by 2015. This "45 by 15" program is expected to create 50,000 jobs throughout the state.

NYPA will solicit municipal facilities, public and private schools, businesses, and state agencies that are interested in partnering with the state to install the roof-mounted or ground-mounted solar photovoltaic (PV) systems.

The governor also recently announced four other projects that support the 45 by 15 goal:

- A 50-MW solar PV project, led by the Long Island Power Authority (LIPA) to be built on Brookhaven National Laboratories sites
- Establishment of a General Electric facility in the Albany area to manufacture sodium batteries, which is expected to create 350 jobs
- Creation of the New York Battery and Energy Storage Technology Consortium (NY BEST), which will invest more than \$25 million to advance the plug-in hybrid electric vehicle industry in New York;
- A proposal by LIPA, Stony Brook University, and Farmingdale State College to create a Smart Energy Corridor on Long Island to help LIPA customers monitor and reduce energy use, increase reliability, encourage energy efficiency, and create clean energy jobs.

To learn more, see the governor's press release (http://www.ny.gov/governor/press/press_0515091.html) and the NYPA Web site (<http://www.nypa.gov/>).

Governmental Affairs Update

DOE and World Energy Leaders Launch Partnership for Energy Efficiency

U.S. Secretary of Energy Steven Chu met with energy leaders from around the world to launch the International Partnership for Energy Efficiency Cooperation (IPEEC), a high-level forum for facilitating improvements in global energy efficiency and encouraging market implementation of energy efficiency technologies. By promoting the exchange of information, best practices, policies, and measures that support energy efficiency efforts, this partnership will offer opportunities for the participating countries to create green jobs domestically while helping to reduce global greenhouse gas emissions. The signatories included the entire Group of 8 (G8), which consists of Canada, France, Germany, Italy, Japan, the Russian Federation, the United Kingdom, and the United States, as well as key emerging economies, including Brazil, China, India, Mexico, and the Republic of Korea. The International Energy Agency will host the IPEEC Secretariat in Paris, France.

The IPEEC partners agreed on an initial set of tasks for the draft work plan, which included the establishment of a Sustainable Buildings Network that will promote efficiency in residential, commercial, and industrial buildings; a compilation and summary of national energy efficiency action plans; an inventory and review of international energy efficiency initiatives; and improved methods for measuring and verifying progress toward domestic energy efficiency goals. See the DOE press release (<http://www.energy.gov/news2009/7420.htm>).

The members of the IPEEC, as well as the energy ministers of Egypt, Saudi Arabia, and South Africa, also issued a joint statement endorsing a comprehensive approach to addressing global greenhouse gas emissions. The joint statement calls for close international cooperation on research, development, demonstration, and deployment of clean energy technologies. It also calls for improving the policy and regulatory frameworks to boost investments in renewable energies and to promote their deployment and diffusion throughout the globe. In addition, it calls for measures that address the financial dimension of widespread renewable energy deployment, including the possibility of designing dedicated international financing mechanisms for renewable energy. The joint statement also addresses nuclear energy and carbon capture and storage technologies. See the joint statement (http://www.g8energy2009.it/pdf/Session_I_+EC.pdf).

Federal Agencies Team Up to Foster Growth in Green Jobs

The White House announced that DOE and other federal agencies have committed to new agency partnerships that will help encourage job growth for a new green economy. DOE is responsible for distributing much of the clean energy funding included in the American Recovery and Reinvestment Act, so the agency has agreed to notify the Department of Labor as funding commitments are made and jobs are created. The Department of Labor will, in turn, provide that information to local One-Stop Employment Centers, which will connect unemployed workers with jobs, training, and education opportunities, while the Department of Education will help identify the educational resources needed for worker training.

DOE will also work with the departments of Education and Labor to help create career development opportunities in the fields of energy efficiency and renewable energy. In addition, DOE will conduct outreach to employers and industry-related organizations to help the departments of Education and Labor identify standards, assessments, best practices, accreditations, and certifications needed for careers in the energy sector. The three agencies signed a Memorandum of Understanding (MOU) to formalize the agreement; see the MOU (<http://www.dol.gov/recovery/green-jobs-mou.pdf>).

The Labor Department also announced plans to release \$500 million from the Recovery Act for grants that will help prepare workers for careers in the energy efficiency and renewable energy sectors. The grants will help underserved communities, including \$50 million to assist communities affected by restructuring in the auto industry. The Labor Department expects to open the grant competition in June, with the first round of applications due in late summer. In addition, the Labor Department will work with the U.S. Department of Housing and Urban Development (HUD) to bring green jobs training and employment to public housing residents. See the White House press release (http://www.whitehouse.gov/the_press_office/Middle-Class-Task-Force-Announces-Agency-Partnerships-to-Build-a-Strong-Middle-Class-through-a-Green-Economy/) and the "Green Jobs Update" (http://www.whitehouse.gov/assets/documents/Middle_Class_Task_Force_Green_Jobs_Update.pdf) from the Middle Class Task Force, which is being led by Vice President Joe Biden.

U.S. Energy-Related Carbon Dioxide Emissions Declined 2.8% in 2008

Despite a 1.1% increase in the U.S. Gross Domestic Product, the nation's carbon dioxide emissions from fossil fuels declined by 2.8% in 2008, according to preliminary estimates by DOE's Energy Information Administration (EIA). The record decline was caused in part by a 5.2% decrease in emissions from transportation. Sky-high fuel prices in the first part of the year, followed by economic woes in the fourth quarter, contributed to a record-breaking decline in vehicle miles traveled in 2008 and an upsurge in the use of public transportation. Carbon dioxide emissions from industries also fell by 3.2%, following a five-year trend of falling industrial emissions, according to the EIA. While overall industrial output fell by 2.2% in 2008, the drop in output from energy-intensive industries—such as chemicals, primary metals, and non-metallic minerals—was much larger, in the range of 5.8%-7.8%.

While lower energy use in the transportation and industrial sectors partly contributed to the drop in carbon dioxide emissions, that's not the full story. The EIA notes that U.S. energy demand fell by 2.2% in 2008, which is less than the drop in carbon dioxide emissions. That means that some of the energy shifted to a source that produces lower carbon dioxide emissions. In fact, the electric power sector, which generates 41% of the carbon dioxide emissions in the United States, decreased its power generation by 1% in 2008, but decreased its carbon dioxide emissions by 2.1%. In other words, the power sector decreased its emissions intensity by 1.1% in 2008. The EIA attributes that accomplishment to a decrease in the use of all fossil fuels at power plants, a feat credited in part to an increase in electricity generated from wind power. See the EIA press release (<http://www.eia.doe.gov/ncic/press/press318.html>) and preliminary report (<http://www.eia.doe.gov/oiaf/1605/flash/flash.html>).

[NIST Announces Grants Supported by Recovery Act Funds](#)

The American Recovery and Reinvestment Act of 2009 provides a total of \$610 million in funding to the National Institute of Standards and Technology (NIST). (<http://www.nist.gov/recovery/>) The NIST Building and Fire Research Laboratory (BFRL) is involved in a wide range of scientific, engineering, and investigative work for the building and fire safety communities. The BFRL is soliciting grant applications under the Measurement Science and Engineering Research Grants Program to include the following:

Energy:

- Research in measurement science to enable net zero energy, high-performance buildings.

Physical Infrastructure:

- Research on measurement tools to improve construction productivity.
- Research on the development of multi-scale models that predict life-cycle performance of construction and building materials and the development of measurements of degradation and lifecycle performance of construction materials (including flammability and nanoparticle release rates), and research to produce sustainability metrics to quantify life-cycle performance by integrating technical, economic, and environmental performance (including energy consumption).
- Research on the tools, models, and methods necessary to reduce the risk of fire spread in buildings and in wildland-urban interface communities, ensure effective and safe use of emerging fire service technologies, and derive lessons from post-fire investigations.
- Research on the tools, models, and methods necessary to enhance the resilience of structures and communities to disasters (earthquakes, hurricanes, windstorms, and fires).

Additional specific details related to these topics, as well as information on proposal submission are available on the Measurement Science and Engineering Research Grants Program website (http://www.nist.gov/recovery/measurement_program.html).

[DOE Announces Recovery Act Funding for Deployment of Geothermal Heat Pumps](#)

U.S. Energy Secretary Steven Chu announced nearly \$50 million from the American Reinvestment and Recovery Act to advance commercial deployment of the renewable heating and cooling systems, which use energy from below the Earth's surface to move heat either into or away from the home or building. The expanded manufacturing and installation of GHPs could aid in the creation of new jobs while reducing the use of fossil fuels.

DOE announced opportunities for geothermal heat pump projects in three areas.

1. **Innovative Technology Demonstrations:** Cost-shared technology demonstration projects that retrofit/incorporate a minimum of 50 tons of heating and cooling capacity and can be deployed in various geological conditions and climate zones in either residential communities or commercial buildings. Selected projects will incorporate innovative business and financing strategies, and focus on technological improves to speed marketplace deployment.
2. **Life Cycle Cost Tools:** Projects that will assist in determining project feasibility by gathering and analyzing data related to system costs, performance, and installation techniques which will help decrease life-cycle cost applications for GHPs.
3. **National Certification and Accreditation:** A national certification and accreditation program for the GHP industry designed to increase consumer confidence in the technology, reduce the potential for improperly installed systems, and assure product quality and performance.

For information on this and other Funding Opportunities under the Recovery Act, visit the U.S. Department of Energy's Recovery and Reinvestment Web site's Funding Opportunities page (<http://www.energy.gov/recovery/funding.htm>).

[Vermont Passes Feed-In Tariff, Other Clean Energy Measures](#)

Vermont legislators have passed House Bill 446, also known as the Vermont Energy Act of 2009, which will allow owners of small renewable energy facilities to sign long-term contracts for the sale of power produced by their facilities. The new Vermont Energy Act will apply to renewable energy systems commissioned on or after September 30, 2009, that are up to 2.2 megawatts in capacity. It allows for power purchase contracts of 10-20 years in duration for most renewable energy projects, and up to 25 years in duration for solar energy projects. The act sets a statewide limit of 50 megawatts for such contracts, but that limit also includes any new, similar-sized renewable power facilities built by the state's utilities.

For now, the act sets standard rates of 12 cents per kilowatt-hour (kWh) for a power plant fueled with methane from a landfill or agricultural operation, such as an anaerobic digester; 20 cents per kWh for wind turbines of 15 kilowatts or less; 30 cents per kWh for solar power; and the state's average residential rate for biomass power plants not fueled with methane, wind power projects larger than 15 kilowatts, and hydropower facilities. However, the act allows the Vermont Public Service Board to adjust these "standard offer" rates, with the intent of allowing a rate of return on equity not less than the highest rate of return approved for investor-owned utilities in Vermont. The rates must also provide sufficient incentive for the rapid deployment of such small renewable power facilities, but not an excessive incentive. If any of the rates seem way out of line with these goals, the board can set interim rates at its discretion before September 15. And whether it does that or not, the board must go through a formal process of setting its own rates by January 15, 2010, and it must repeat the process every two years. See the text (<http://www.leg.state.vt.us/docs/2010/bills/Passed/H-446.pdf>) of the Vermont Energy Act.

The Vermont Energy Act also has a number of other notable features. First of all, the state's utilities are no longer required to offer voluntary renewable energy programs to their customers. The state previously required utilities to establish such "green power" or "green pricing" programs by July 1. Second, the act extends the Vermont Clean Energy Development Fund to include geothermal energy devices. Third, the act encourages appropriate wind power development on state-owned lands. Fourth, the act does not allow covenants, deeds, or other binding agreements to prohibit the installation of solar collectors, clotheslines, or other renewable energy devices. Fifth, it allows municipalities to finance renewable energy and energy efficiency projects. Sixth, the act directs clean energy development funds to two "Vermont village green" renewable pilot projects, tentatively located in Montpelier and Randolph. The pilot projects will offer district heating to local homes and businesses, using a centralized heating system fueled with renewable energy. And last but not least, the act requires that the state's building energy codes comply with the 2009 edition of the International Energy Conservation Code.



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Society News: Virtual Congressional Visits Day Hosted by High-Performance Buildings

WASHINGTON, D.C. – The building industry is encouraged to reach out to Congress to promote high-performance buildings during an upcoming High-Performance Buildings week.

The High-Performance Building Congressional Caucus Coalition (HPBCCC) is hosting the first annual Virtual Congressional Visits Days during the week of June 15-19. Members of the HPBCCC participating organizations are asked to contact their member of Congress by phone and e-mail and encourage them to join the High-Performance Building Congressional Caucus and to focus on high-performance building issues. The week has been dubbed “High-Performance Buildings Week.”

Co-Chairs of the High-Performance Build-

ing Congressional Caucus, Representative Russ Carnahan (D-MO) and Representative Judy Biggert (R-IL) introduced a Resolution (H.Res.492) supporting the goals and ideals of High-Performance Building Week.

“ASHRAE’s Washington Office is leading the program and would like to have ASHRAE members participate in full force,” said Bill Harrison, ASHRAE president. “ASHRAE set the foundation for energy efficiency with Standard 90.1, and we are working to build on that foundation by providing guidance related to high-performance buildings. To ensure the design, construction and operation of high-performance buildings, it is vital we have the support of the federal government.”

Information on the program including fact

sheets, contact templates, and participating organizations is available at www.hpbccc.org/cvd.

The High-Performance Buildings Congressional Caucus Coalition (HPBCCC) is a private-sector coalition providing guidance and support to the High-Performance Building Caucus of the U.S. Congress. The High-Performance Buildings Congressional Caucus Coalition will work with the Congressional Caucus to promote and showcase best practices in building design and focus on issues reflecting all aspects of high-performance buildings including: accessibility, aesthetics, cost-effectiveness, functionality, historic preservation, productivity, safety and security, and sustainability.

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 | 210 | 805 | 560 | 210 | 375 | 770 | 3505 |

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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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