



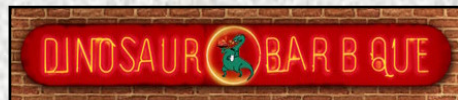
**INSIDE THIS ISSUE:**

Officer / Committee List	2
President Msg	3
Research Promotion	4-5
ASHRAE Picnic	6-7
YEA Mini-golf YEA Update	8-9
Technology Award	10
Summer Interns	11
Governmental Affairs	12-13
Job Posting/ PAOE Points	14
Society News	15
Air Conditioning Fundamentals	16-17



VOLUME 5, ISSUE 9

MAY 6, 2011



## ASHRAE Picnic and Golf Outing

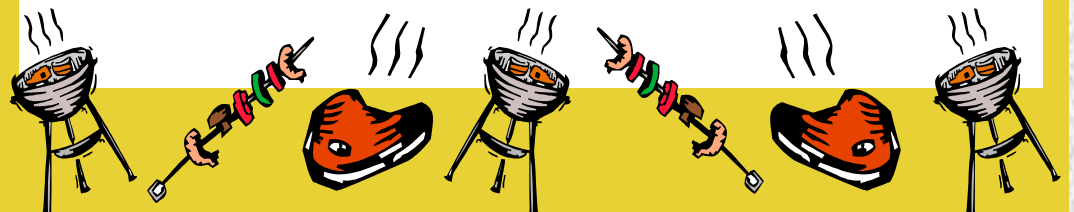
Date: Tuesday, May 17<sup>th</sup>

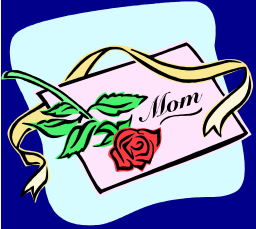
Place: Ravenwood Golf Club

929 Lynaugh Road, Victor

Catered by: Dinosaur BBQ

...see pages 6 & 7 for all of the details.





## Chapter Officers

### **President**

Jim Browe  
585-697-0836/697-0839  
jbrowe@rfpeck.com

### **President Elect**

Jeffrey Ellis  
585-232-3440/232-3441 (fax)  
ellis@airsystemsbalancing.com

### **Vice President/Tech**

Michelle Sommerman  
585-232-5135/232-4652(fax)  
msommerman@bergmannpc.com

### **Secretary**

Robert Wind  
585-341-3172  
rwind@ibceng.com

### **Treasurer**

Edward J. Burns  
585-739-7548/872-9172(fax)  
ejb@mechtechvac.com

## Committee Chairs

### **CTTC/Programs**

Jeffrey Ellis  
585-232-3440/232-3441 (fax)  
ellis@airsystemsbalancing.com

### **CTTC/TEGA**

Jeff Davis  
585-381-3360/381-3368(fax)  
jdavis@turnerengineering.com

### **CTTC/ Refrigeration**

Michael Nohle 585-216-9016  
mikenohle@aol.com

### **Historian**

Lee Loomis 585-738-3079  
leeloom@aol.com

### **Membership**

Phil Masters 585-346-9600/346-5444(fax)  
pmasters2@rochester.rr.com

## Board of Governors

### Jeff Close

585-289-6816/218-0737(fax)  
Jeff.close@pres-services.com

### Phil Masters

585-750-5092  
pmasters2@rochester.rr.com

### William Murray

585-272-4650/272-4676 (fax)  
bmurray@nrg-concepts.c0m

### Tim Duprey

585-402-5285/315-423-5408 (fax)  
DupreyT@ifsinc.net

### Christina Walter

585-486-2148/256-0067(fax)  
cmwalter@trane.com

### Eric Smith

585-381-3360/381-3368(fax)  
esmith@turnerengineering.com



### **Research Promotion**

Jeff Close 585-289-6816/218-0737(fax)  
Jeff.close@pres-services.com

### **Student Activities**

Al Rodgers 585-218-0730/218-0737(fax)  
arodgers@pathfinderengineers.com

### **Newsletter Editor**

Christina Walter 585-486-2148/256-0067(fax)  
cmwalter@trane.com

### **Attendance & Reception**

Tim Duprey  
585-402-5285/315-423-5408 (fax)  
DupreyT@ifsinc.net

### **Webmaster**

Kevin Wind 585-263-1280  
kwind@rochester.rr.com



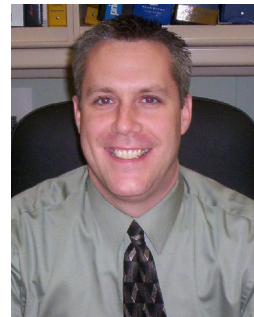


## President's Message: by Jim Browe

The Rochester chapter had a great meeting in April. It was our last meeting before the year end picnic and golf outing. The meeting on April 11<sup>th</sup> featured a technical presentation and a tour of a two building apple cold storage facility utilizing a 200 horsepower Hill-Phoenix refrigeration rack system comprised of four, 50 horsepower Bitzer compressors and positive oil return lubrication management devices and controls. It is coupled with Krack direct expansion warehouse evaporators in each room. The system uses water flow over the evaporator coil surfaces for frost removal (defrost) making for a very efficient, cost effective means of reducing frost buildup. The heat rejection is accomplished by the use of an Evapco evaporative condenser installed outdoors. Another important element of the system is an energy saving microprocessor based control system. We had over 40 people attend this event and had a great dinner at the Pultneyville Grill. I would like to thank the presenters; Frank Van Kempen and Scott Sovereign, P.E. from Enersave, as well as

Jim Peters, the owner of Church Road Farms.

On May 17th we will be having our Annual Golf Outing and Picnic which will be held at the Ravenwood Golf Club in Victor. As always we are looking for sponsors to make this a successful and fun event. If anyone is interested in becoming a sponsor or in donating door prizes please contact myself at [jbrowe@rfpeck.com](mailto:jbrowe@rfpeck.com) or Ed Burns at [ejb@mechtechvac.com](mailto:ejb@mechtechvac.com). I'm looking forward to seeing everyone at this event!



*Jim Browe, 2010-2011 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 embracing diversity.

# Research Promotion: Jeff Close

## ASHRAE Research Promotion

The deadline for this year's campaign is June 30<sup>th</sup> and its approaching fast. For those who have not yet contributed this year please consider making a contribution to support ASHRAE Research.

For your convenience I have included a donation form in the newsletter that can be filled out with your information and sent directly to ASHRAE headquarters or if you prefer, you may also make your contribution quick and easy online at [www.ashrae.org/contribute](http://www.ashrae.org/contribute)

**Special notice to all YEA Members** – Sustainable Performance Consulting has offered to match dollar-for-dollar (100%) any donations raised by YEA members between now and Friday, May 13<sup>th</sup>, 2011. Even a small contribution will help and your contribution to ASHRAE Research is also tax deductible. Together, if we reach a minimum goal of \$150, YEA-Rochester will be recognized as an Honor Roll Donor.

A special thanks to our current contributors this year:

2010-11 Rochester Chapter Research Donors			
Gray Metal Products, Inc.	ASHRAE Golden Circle	Day Automation Systems Inc.	Honor Roll Donor
ASHRAE Rochester Past Presidents	ASHRAE Associate	ABR Wholesalers Incorporated	Honor Roll Donor
Ms Lynn G Bellenger	Major Donor - Silver	Mr Joseph R VanCura	Honor Roll Donor
R.L. Kistler Inc.	Major Donor - Bronze	Mr James C Browe	Honor Roll Donor
R.P. Fedder Corporation	Major Donor - Bronze	Mr Jeffrey C Ellis	Honor Roll Donor
Modular Comfort / Fulton Boiler	Major Donor - Bronze	Mr Thomas E Piekunka	Honor Roll Donor
Slater Equipment Company Inc.	Major Donor - Antique	Ms Michelle Sommerman	Honor Roll Donor
RF Peck Company, Inc.	Major Donor - Antique	Mr Jeffrey S Close	Honor Roll Donor
Turner Engineering	Major Donor - Antique	Mr Robert Wind, Jr	Honor Roll Donor
MECH Tech HVAC	Major Donor - Antique	Mr Peter Oppelt	Honor Roll Donor
Air Systems Balancing & Testing	Honor Roll Donor	Mr Edward Burns	Honor Roll Donor
Erdman Anthony & Associates	Honor Roll Donor		

\* Updated 4-25-2011

If anyone is interested in contributing and would like to learn more, please contact me.

Jeffrey Close - Research Promotion Chair,  
jeff.close@pres-services.com or 585-289-6816

**Mission: To improve the quality of life and to answer tomorrow's questions through research TODAY.**

Over \$2million raised annually to help fund \$10million in research projects and student grant-in-aids.

Research is used to update the Society's standards and guidelines.

Contributions come from more than 6,700 members, non-members, and companies.

100% of all funds raised go directly to research projects that support the HVAC&R industry.

Active research projects are conducted all around the world at various universities and private organizations.



# ASHRAE RESEARCH DONATION FORM

Investors  
Who Care  
About  
Tomorrow

Contributor: \_\_\_\_\_ Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

\_\_\_\_\_ Email: \_\_\_\_\_

**CONTRIBUTED BY: (Check Only One)**

- INDIVIDUAL ASHRAE MEMBER       INDIVIDUAL NON-MEMBER       COMPANY/ORGANIZATION

Your contribution puts us closer to achieving our goal. Please send what you can today!  
Individual contributions of \$100 or more and Corporate contributions of \$150 or more receive this year's  
Commemorative Coin and Honor Roll Investor recognition in the October ASHRAE Journal

CONTRIBUTION AMOUNT  \$100  \$150  \$250       OTHER \$ \_\_\_\_\_      **THANK YOU!**

CONTRIBUTION FOR: (defaults to research)       Research       Professional Education Programs

METHOD OF PAYMENT:       Check       Visa       MasterCard       AMEX       Online

DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ CARD#: \_\_\_\_\_ EXP. DATE: \_\_\_\_\_

Mail Check (Payable to "ASHRAE Research") to:  
ASHRAE RESEARCH  
c/o Patricia Adelman,  
1791 Julia Circle, NE  
Atlanta, Georgia 30329-2305

\*\*\* ONLINE Contributions can be made at [www.ashrae.org/contributions](http://www.ashrae.org/contributions) \*\*\*

All contributions to the ASHRAE are fully deductible under Section 170 of the U. S. Internal Revenue Code.  
Please make checks payable to ASHRAE RESEARCH FUND for research contributions or ASHRAE, Inc for  
professional education support.

Chapter/Number: Rochester, NY Chapter

Solicited By: Jeffrey Close – Rochester RP Chair



# 2011 ASHRAE PICNIC SPONSORSHIP FORM

Tuesday, May 17, 2011

		
<p>Ravenwood Golf Course 929 Lynaugh Road Victor, NY 14564</p> <p><b>11:00 AM – 4:30 PM - Golf</b></p>	<p><b>Picnic: 4:30 PM-8:00 PM</b> 4:30 PM - 6:00 PM Cocktails and Hors d'oeuvres 6:00 PM - 8:00 PM Dinner Catered By: <b>Dinosaur Barbeque</b> at Ravenwood Golf Club</p> 	<p><b>Four Man Scramble and Optional Skins Game.</b></p> <p>Golf includes:</p> <ul style="list-style-type: none"> <li>➤ Golf</li> <li>➤ Cart</li> <li>➤ Driving Range</li> <li>➤ Prizes</li> <li>➤ On course beverages and food at the turn</li> </ul>

*Please include check (on notes put what sponsorship you made) and make payable to: **ASHRAE Rochester Chapter** and mail to:*  
**Attention: Edward J. Burns**  
**Mech Tech HVAC, Inc.**  
**195 North Ave.**  
**Webster, NY 14580**  
*Any questions, call Ed at (585) 872-6681*  
*Email: [ejb@mechtechvac.com](mailto:ejb@mechtechvac.com)*

Please fill out info so we can **correctly recognize you or your Company:**

Company Name: \_\_\_\_\_

**OR**

Individual Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: (Work) \_\_\_\_\_ (Home) \_\_\_\_\_

## Sponsorship Form

<i>Sponsorship Name</i>	<i>X here for your Sponsorship</i>	<i>Sponsorship Amt.</i>
Gold - \$250.00 - Hole Sponsorship and Recognition at Picnic		\$250.00
Silver - \$150.00 - Hole Sponsorship		\$150.00
Bronze - \$100.00 - Recognition at Picnic		\$100.00
Prize Sponsor - \$175.00 - Longest Drive		\$175.00
Prize Sponsor - \$175.00 - Closest to Pin		\$175.00
<b>Total Check Amount:</b>		\$



**TUESDAY, MAY 17, 2011**  
**ASHRAE Picnic / Golf Tournament**  
**To be held at**  
**Ravenwood Golf Course**

Reservation Deadline is... **May 10, 2011**  
 (There is a limited amount of tickets this year on a first come basis)

<p align="center">Ravenwood Golf Course 929 Lynaugh Road Victor, NY 14564</p> <p><b>11:00 AM - 4:30 PM - Golf</b></p>	<p align="center"><b><u>Picnic: 4:30 PM-8:00 PM</u></b>          4:30 PM - 6:00 PM          Cocktails and Hors d'oeuvres          6:00 PM - 8:00 PM          Dinner Catered By:  <b>Dinosaur Barbeque</b>          at Ravenwood Golf Club</p>	<p align="center"><b>Four Man Scramble and Optional Skins Game.</b></p> <p><u>Golf includes:</u></p> <ul style="list-style-type: none"> <li>➤ Golf</li> <li>➤ Cart</li> <li>➤ Driving Range</li> <li>➤ Prizes</li> <li>➤ On course beverages and food at the turn</li> </ul>

**NO TICKETS WILL BE SOLD OR DISTRIBUTED AT THE DOOR! RES HAS THE TICKETS THIS YEAR.  
 TICKETS WILL BE MAILED TO YOU OR CAN BE PICKED UP AT THE  
 ROCHESTER ENGINEERING SOCIETY.**

**Please include check and make payable to:  
 "ASHRAE - Rochester Chapter"**

**Return this form....  
 Mail prior to May 10, 2011 to:  
 Attention: Reservation Clerk  
 Rochester Engineering Society  
 150 State Street  
 Rochester, New York 14614  
 Any questions, call (585) 254-2350  
 Email: res@frontiernet.net**

Address where you would like your picnic tickets sent to:

Company: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: (Work) \_\_\_\_\_ (Home) \_\_\_\_\_

<b>Ticket Request Form</b>			
<b>Event</b>	<b>Fee Amount</b>	<b>No. Attending</b>	<b>Total</b>
Golf	\$85.00		\$
Picnic	\$45.00		\$
<b>OR:</b>			
Golf and Picnic <b>(SAVE \$10.00)</b>	\$120.00		\$
Total amount enclosed:			\$



## Auburn Creek Driving Range & Mini Golf

7331 Victor-Mendon Rd.  
(RT 251)  
Victor, NY 14564  
(585) 924-7570

### *ASHRAE GOLF TOURNAMENT/PICNIC*

All members of ASHRAE – Rochester Chapter are invited to join YEA at the Auburn Creek Driving Range & Mini Golf. If you aren't ready to swing with the big kids at the Ravenwood Golf Club, you can play a round of mini-golf or visit the driving range to practice for next year's golf tournament. Afterwards, we can head over to Ravenwood Golf Course to join the rest of the chapter for Dinosaur BBQ.

**Tuesday, 17 May 2011 – YEA Mini-Golf and Driving Range**

**Location: Auburn Creek Driving Range & Mini Golf**  
7331 Victor-Mendon Rd. (RT 251)  
Victor, NY 14564  
(585) 924-7570



**Schedule: 3:30 P.M. Tee Off**  
**4:30 P.M. Picnic at Ravenwood Golf Club**

**Mini-Golf - FREE with RSVP to Jaimee Reynolds by Friday, May 13 OR \$5/person at-the-door**

**Driving Range – \$ per bucket: \$4.50 for small (35), \$6.50 for medium (70), or \$8.50 large (135)**

For questions regarding the event, please contact Jaimee Reynolds ([jreynolds@pathfinder-ea.com](mailto:jreynolds@pathfinder-ea.com))

### **YEA RESEARCH CAMPAIGN 2011**



YEA – Rochester is joining with Sustainable Performance Consulting, Inc. (SPC) once again for the YEA Research Campaign 2011. Any donations raised by YEA members will be matched dollar-for-dollar (100%) by Sustainable Performance Consulting, Inc. (SPC) to provide funding towards new research projects and research projects already underway. From now until Friday, May 13, 2011 your dollar will provide twice as much research funding thanks to the generosity of SPC. Our total research contributions will be recognized at the May ASHRAE Golf/Picnic held at Ravenwood Golf Club. Even a small contribution will help and your contribution to ASHRAE Research is also tax deductible. Please visit [www.ashrae.org](http://www.ashrae.org) (Research Promotion Quicklinks) to make your donation. Together, if we reach a goal of \$150, YEA can be added to the honor roll.

For questions regarding your contribution, please contact our Chapter Research Promotion Chair Jeff Close ([jeff.close@pres-services.com](mailto:jeff.close@pres-services.com) or 585-289-6816).







## YEA ROCHESTER

If you are 35 or younger, welcome to Young Engineers in ASHRAE (YEA). Our primary objective is to enhance member benefits by identifying activities and services focused on the needs of young professionals in the industry of HVAC and energy.

### *UPCOMING EVENTS*

- **12 Noon Tuesday, May 3, 2011 – YEA Committee Meeting**

Join us at lunch time to discuss future plans for YEA.

**Location:** Winfield Grill

647 Winton Road North Rochester, NY 14609-7855

For more information, contact Jaimee Reynolds, [jreynolds@pathfinder-ea.com](mailto:jreynolds@pathfinder-ea.com)

- **3:30pm Tuesday, May 17, 2011 – YEA Mini-Golf and Driving Range**

Practice your short game before meeting up with the ASHRAE Rochester Chapter at Ravenwood Golf Club.

**Location:** Auburn Creek Driving Range & Mini-Golf  
7331 Victor-Mendon Rd, Victor, NY 14564

**Schedule:** 3:30 P.M. Tee Off  
4:30 P.M. Picnic at Ravenwood Golf Club



**FREE** Mini-Golf when you reserve a ticket for the ASHRAE-Golf Picnic.

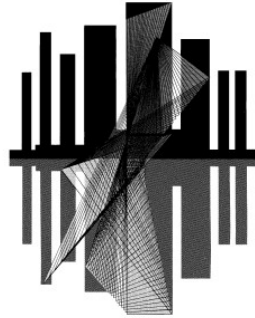
Please reserve your ticket for the ASHRAE – Golf picnic ahead of time. No tickets will be sold at the door.

If you plan on joining YEA for mini-golf please RSVP to Jaimee Reynolds by Friday, May 13.

### *SUPPORT ASHRAE RESEARCH*

YEA – Rochester is joining with Sustainable Performance Consulting, Inc. (SPC) once again for the YEA Research Campaign 2011. Any donations raised by YEA members will be matched dollar-for-dollar (100%) by Sustainable Performance Consulting, Inc. (SPC) to provide funding towards new research projects and research projects already underway. From now until Friday, May 13, 2011 your dollar will provide twice as much research funding thanks to the generosity of SPC. Even a small contribution will help and your contribution to ASHRAE Research is also tax deductible. Please visit [www.ashrae.org](http://www.ashrae.org) (Research Promotion Quicklinks) to make your donation. Together, if we reach a goal of \$150, YEA can be added to the honor roll. For questions regarding your contribution, please contact our Chapter Research Promotion Chair Jeff Close ([jeff.close@pres-services.com](mailto:jeff.close@pres-services.com) or 585-289-6816).

# ASHRAE Technology Award Program:



The ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building design in the areas of occupant comfort, indoor air quality and energy conservation. Their designs incorporate ASHRAE standards for effective energy management, innovative design, operation and maintenance, cost effectiveness, environmental impact, and IAQ. Performance is proven through one year's actual, verifiable operating data.

## [What is the Technology Awards Program?](#)

The purpose of the ASHRAE Technology Awards program is to:

1. Recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data;
2. Communicate innovative systems designs to other ASHRAE members;
3. Highlight technological achievements of ASHRAE to others, including associated professionals and societies worldwide, as well as building and facility owners.

Each year the Society may present awards in six categories: Commercial Buildings (New and Existing); Institutional Buildings (New and Existing) (Educational Facilities and Other Institutional); Health Care Facilities (New and Existing); Industrial Facilities or Processes (New and Existing); Public Assembly (New and Existing); Residential (New and Existing).

For each category first, second, and honorable mention winners may be named. Also, one of the category first place winners may be selected to receive the ASHRAE Award of Engineering Excellence. The recipient will have demonstrated the best overall compliance with the judging criteria.

Please contact Jeff Davis at (585)381-3360 x136 to receive the application (short form) and to answer any questions that you may have. Entries must be submitted to [JDavis@TurnerEngineering.com](mailto:JDavis@TurnerEngineering.com) for the Chapter's Technology Award competition **no later than April 30th.**

*Jeff Davis - CTTC/TEGA Committee Chair,*  
[JDavis@TurnerEngineering.com](mailto:JDavis@TurnerEngineering.com)  
Phone: (585)381-3360 x136



# ASHRAE

Technology for a Better Environment

1791 Tullie Circle, NE • Atlanta, GA 30329-2305 USA • Tel 404.636.8400 • Fax 404.321.5478 • <http://www.ashrae.org>

**Lynn G. Bellenger, P.E., FASHRAE**  
President

Reply to: PATHFINDER ENGINEERS & ARCHITECTS LLP  
134 South Fitzhugh Street  
Rochester, NY 14608-2268  
☎ 585-325-6004 ext. 105  
Fax: 585-325-6005  
[bellenger@pathfinder-ea.com](mailto:bellenger@pathfinder-ea.com)

Dear ASHRAE Member:

As summer approaches in the Northern Hemisphere, many college students will be seeking a summer job. I'd like to ask you to consider hiring a summer intern if your work load permits. For those of you in the Southern Hemisphere, please consider hiring an intern during holiday breaks or for co-op positions.

In addition to using local resources for finding applicants, intern positions can be posted at no cost through ASHRAE's online jobs website, [www.ashraejobs.com](http://www.ashraejobs.com). Under the "visit the employer area" in the top right-hand section of the site, you can find more information about posting internships for free. Students can search for internships under the "resources" tab.

As I've visited chapters this Society year, I've met with the Society's Young Engineers in ASHRAE members (those members under age 35) in many cities. I've asked each of them how they entered the HVAC&R field, and the answer almost universally is "I learned about it through an intern position."

As most of you know, the number of colleges and universities that offer HVAC&R courses is declining and many capable young men and women are unaware of our industry and the exciting opportunities it offers. So, please join me in reaching out to them by offering one or more intern positions this summer. It's a win-win situation! Thank you.

Personal regards,

Lynn G. Bellenger, PE, Fellow ASHRAE  
ASHRAE President

---

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

AN INTERNATIONAL ORGANIZATION

Welcome to ASHRAE's Government Affairs Update. Along with the 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](mailto:washdc@ashrae.org).

## ASHRAE Government Affairs Update, 4/8/11

- [Government Shutdown Nears; Even if Avoided, Energy Programs to Take a Hit](#)
- [House Republicans Unveil Fiscal 2012 Budget Plan](#)
- [Senate Holds Hearing on Cutting Costs and Improving Energy Efficiency of Federal Buildings](#)
- [High Performance Building Congressional Caucus Holds Briefing on Secure and Sustainable U.S. Embassies](#)
- [U.S. Departments Commerce, State, and Energy Help Promote Energy Efficient Technologies through the League of Green Embassies Program](#)
- [GAO Issues Report on Energy Efficiency and Conservation Block Grant Funding Use](#)



### [Government Shutdown Nears; Even if Avoided, Energy Programs to Take a Hit](#)

Negotiations continue between Senator Majority Leader Harry Reid (D-NV), House Speakers John Boehner (R-OH), and President Barack Obama on funding to keep the federal government running throughout the remainder of the current fiscal year.

The current continuing resolution (CR) expires tonight at midnight. If a compromise is not reached, most federal agencies will shutdown, although essential fire, health, and other safety services will continue.

Although contentious policy issues remain, Democrats and Republicans are close to a deal which would likely include additional cuts of \$38 billion for the rest of the fiscal year.

Although the specifics are still undetermined, energy efficiency programs are currently in the line of fire. For instance, the U.S. Department of Energy's (DOE) Office of Energy Efficiency and Renewable Energy, which oversees the Building Technologies Program (helps promote building codes and standards), would be cut by \$11.2 million.

Even if Reid, Boehner, and Obama reach agreement, the bill would still need to be passed by the House and Senate – and this is no easy task, as the House is controlled by Republicans, who are under heavy influence from the Tea Party, and the Senate is controlled by Democrats, many of whom reject spending cuts proposed by House conservatives.

The result will likely be a government shutdown. If this happens the economic impacts could be significant. Some 800,000 federal employees would be furloughed nationwide, affecting local businesses that rely on government employees as their customers. Although furloughed workers received retroactive pay after the last major government shutdown in 1995, this time around the political winds in Congress may dictate that recouping lost wages isn't an option.

National parks, and federally-funded museums, such as the Smithsonian, would all temporarily close their doors as well, causing a ripple effect throughout the hotel and tourism industries.

While Congress is finishing up work on this year's spending levels, it is clear that this debate will in many ways serve as prelude to the larger spending battles to come, as demonstrated by Representative Paul Ryan (R-WI), Chairman of the House Budget Committee, who recently unveiled the House Republican's fiscal 2012 budget plan, which seeks even steeper cuts than those currently proposed. More information in the following section... While Congress is finishing up work on this year's spending levels, it is clear that this debate will in many ways serve as prelude to the larger spending battles to come, as demonstrated by Representative Paul Ryan (R-WI), Chairman of the House Budget Committee, who recently unveiled the House Republican's fiscal 2012 budget plan, which seeks even steeper cuts than those currently proposed. More information in the following section...

### **House Republicans Unveil Fiscal 2012 Budget Plan**

Representative Paul Ryan (R-WI), Chairman of the House Budget Committee, recently unveiled the House Republican's fiscal 2012 budget plan.

Entitled "The Path to Prosperity: Restoring America's Promise", this budget outline would reduce spending by \$6.2 trillion compared to President Obama's budget request over the next ten years.

The 30 page document paints a broad picture of House Republican priorities. The energy portions of the plan focus on reducing barriers to energy exploration in the United States, and energy efficiency is not specifically addressed.

To view "The Path to Prosperity: Restoring America's Promise", visit <http://budget.house.gov/>. Related materials can also be found at <http://www.gop.gov/budget>.

### **Senate Holds Hearing on Cutting Costs and Improving Energy Efficiency of Federal Buildings**

The Senate Environment and Public Works Committee held a hearing on Wednesday, March 30, to examine how the U.S. General Service Administration' (GSA) is improving the efficiency and sustainability of federal buildings through construction and retrofits.

The hearing also examined GSA's use of the U.S. Green Building Council's LEED certification system, and how LEED compares to alternatives, such as The Green Building Initiative's Green Globes rating system, and the potential intended and unintended consequences to the federal government and taxpayers of using one system over another.

To view the archived Webcast, and view witness testimony, please visit <http://1.usa.gov/edaa15>.

### **High Performance Building Congressional Caucus Holds Briefing on Secure and Sustainable U.S. Embassies**

The High Performance Building Congressional Caucus Coalition (HPBCCC) held a briefing for Congressional staff, building industry representatives, and the general public entitled "Secure and Sustainable U.S. Embassies."

The briefing examined how the ongoing threats to Americans who live and work in overseas diplomatic facilities drive the security, design, construction, and operations of these buildings. The briefing also explained that sustainable design practices and operations effectively reduce the consumption of resources at diplomatic facilities, while enhancing security.

The HPBCCC is lead by ASHRAE. For more information on the HPBCCC, including the soon-to-be-posted PowerPoint presentations that were delivered at the briefing, please visit <http://www.hpbccc.org/03292011.php>.

### **U.S. Departments Commerce, State, and Energy Help Promote Energy Efficient Technologies through the League of Green Embassies Program**

The League of Green Embassies is a U.S. Department of State initiative promoting international cooperation in energy efficiency and clean technologies. The League is a collaboration of the U.S. State Department, through its embassies around the world, the Department of Energy, the Department of Commerce and U.S. cleantech exporters and international stakeholders.

Three key goals of the League of Green Embassies are to advance the Presidential mandate to reduce greenhouse gas emissions in U.S. government buildings; to demonstrate the capabilities of U.S. products and technologies to the world market; and to increase the exports of U.S. products and services in line with the National Export Initiative. The vision of the League is to provide new economic opportunities, to promote exports and stimulate U.S. investment in energy and environmental technologies while addressing important political and ecological challenges such as energy security and climate change.

The League of Green Embassies reflects the commitment of its members to reduce the greenhouse emissions of their Embassies and related properties in order to combat climate change and reduce operating costs through energy efficiency. Embassies are a powerful force for introducing innovative solutions, influencing individuals and institutions in host countries, and play an important role in mobilizing public opinion and action. The blog and Actions page on the League's Website seek to showcase collaborative efforts and best practices, and to highlight exemplary actions.

Opportunities are available for involvement with the League. If you would like more information, please visit <http://www.leagueofgreenembassies.org>.

### **GAO Issues Report on Energy Efficiency and Conservation Block Grant Funding Use**

A new U.S. Government Accountability Office (GAO) report examines progress made by the Energy Efficiency and Conservation Block Grant (EECBG) program, which received \$3.2 billion under the American Recovery and Reinvestment Act.

Among the report's findings are that of the \$19.7 million available under this program to help states and local jurisdictions develop and implement building codes and inspection services to promote energy efficiency, nearly \$5 million has already been used to fund 117 projects across the nation.

To view the GAO report, visit <http://www.gao.gov/new.items/d11379.pdf>.

For additional information on the EECBG, visit <http://www1.eere.energy.gov/wip/eeebg.html>.

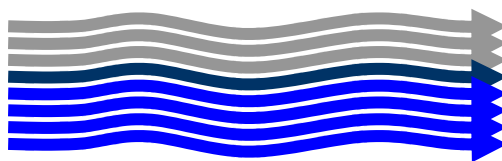
# Job Postings & Help Wanted



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](mailto:cmwalter@trane.com)

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



## R.F. PECK CO., INC

889 ATLANTIC AVE  
 ROCHESTER, NEW YORK 14629  
 Phone: (585) 697-0836 Fax: (585) 697-0839

Job Title: **HVAC Estimator**

The R.F. PECK CO., Inc is a commercial HVAC manufacturer's representative firm who has been in business for over 50 years. We specialize in the distribution, filtration, measurement and control of airflow, as well as heating, ventilating and air conditioning equipment sales. Through our affiliation with quality manufacturer's, we offer support to architects, engineers, designers and contractors by providing high quality equipment, competitive pricing and prompt service.

Our continued success has created a need for an additional inside sales/estimator in the Rochester, New York area.

We require an energetic and driven person that has engineering background or HVAC experience that is willing to grow into this position. The job consists of: mechanical blueprint reading, takeoffs and submittal preparation. We offer training and a competitive payment and benefits package.

Email resume to [jbrowe@rfpeck.com](mailto:jbrowe@rfpeck.com).

## 2010-2011 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	250	550	645	1210	325	0	110	2840



**Society News:** ASHRAE Seeks Public Comment on Standard for Existing Buildings

ATLANTA – To ensure a sustainable future, the greatest opportunity lies in modifying existing buildings. Only 2 percent of construction projects are for new buildings, while 86 percent of construction dollars go into renovation of our existing building stock.

ASHRAE and the Illuminating Engineering Society (IES) are revising ANSI/ASHRAE/IESNA Standard 100-2006, Energy Conservation in Existing Buildings, to provide greater guidance and a more comprehensive approach to the retrofit of existing buildings for increased energy efficiency. The standard was first published in 1981, and the need for its requirements has grown as more attention is paid to improving energy in our current building stock.

The standard is open for an advisory public review until May 25, 2011. Visit [www.ashrae.org/publicreviews](http://www.ashrae.org/publicreviews) for more information.

ASHRAE's advisory public review process is designed to seek suggestions for new, unusual or potentially controversial elements of a proposed standard that the committee feels would benefit from increased public scrutiny. Unlike ASHRAE's formal call for public comments process, comments received under advisory public reviews are supportive and do not need to be resolved.

Of the 94.6 quadrillion btu of energy consumed in the United States in 2009, 42 percent was used by commercial and residential buildings. Over the next 24 years, national electric consumption is expected to grow by over 22 percent and natural gas consumption by 16 percent. In the same period, the amount of commercial and residential floor space in the marketplace is expected to increase by 37 percent and 17 percent respectively.

"In order to offset the growing amount of floor space and subsequent increased energy de-

mands, existing buildings must improve their efficiency, even if every new square foot were built and operated at net zero energy," Rick Hermans, chair of the Standard 100 committee, said. "ASHRAE and IES are working to make Standard 100 the best source of practical, accurate and cost effective design guidance for existing buildings."

"Achieving improvements in energy efficiency in existing buildings provides significant rewards in operating savings, conservation of resources and improvements in the environment," Rita Harrold, IES director of technology, said. "The standard addresses the necessary guidance for a variety of users to develop action plans for their specific needs. Making the standard available for an advisory public review is an important opportunity for contributory comments that will add value to the final document."

The revised standard provides comprehensive and detailed descriptions of the processes and procedures for the energy efficiency improvements of existing residential and commercial buildings in order to achieve greater energy efficiency.

"Cities like New York, which are constrained in their development due to infrastructure limitations, can use this tool to renovate their existing building stock, freeing up energy for new developments," ASHRAE Presidential Member Gordon Holness, whose presidential theme focused on energy in existing buildings, said. "Since the standard sets specific energy targets based on building type and climate zone, it can also be used by state and federal agencies and by utility companies as a means of validating building efficiency improvements as a result of tax rebate and incentive programs. Given that 75 to 80 percent of all buildings that will exist in the year 2030, exist today, this rewritten standard gives us a vital resource to fulfill our sustainability goals. President Obama recently announced a series of tax and regulatory

changes with a collective goal for a 20 percent reduction in energy use in commercial buildings by the year 2020. That can only be achieved by addressing our existing building stock."

The standard addresses major and minor modifications for both residential and commercial buildings, single and multiple activity buildings with variable occupancy periods and identifies an energy target for 53 building types in 16 climate zones/sub-zones.

The revised standard also identifies energy efficiency requirements for buildings without energy targets – mostly industrial, agricultural, data centers and special laboratories – and provides multiple levels of compliance.

Recognizing that the type of occupancy, operation and the use of a building plays a key role in its performance, the standard establishes the requirement for developing an energy management plan and an operation and maintenance plan, according to Hermans.

Included within the revised standards is criteria for energy use surveys, auditing, implementation and verification. Appendices are included for life cycle cost analysis procedures as well as identification of potential energy efficiency measures.

"Through this advisory public review, we are seeking broad and general comments on the text of the standard, the concepts of requirements and opinions about the value of the standard," Hermans said. "Throughout the text there are questions seeking your advice as reviewers of this draft document. Please look at these questions and add your thoughts, answers and comments in the ASHRAE comments database as described in the instructions."

**Disclaimer**

"ASHRAE has compiled this publication with care, but ASHRAE has not investigated, and ASHRAE expressly disclaims any duty to investigate any product, service, procedure, design or the like which may be described herein.

The appearance of any technical data, editorial material, or advertisement in this publication does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, procedure, design or the like. ASHRAE does not necessarily agree with any statement or opinion in this publication. The entire risk of the use of any information in this publication is assumed by the user. Statements made in this publication are not expressions of the Society or of the Chapter and may not be reproduced without special permission".

**From the Editor's Desk**

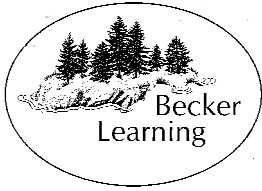
The ASHRAE Chapter Bulletin should reflect the opinions, activities and needs of it's members. We represent an active membership and the Bulletin can provide a valuable and enjoyable forum for news of our individual members.

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](mailto:cmwalter@trane.com)

**Reminder**

Go to [www.ashrae.org](http://www.ashrae.org) to update your personal information. Keeping your information current helps us to find you. Please add email, phone number, fax number, address correction, etc.





## Your technical training provider presents... **Air Conditioning Fundamentals 2011**

**Target Audience:** Essentially anyone who wants to broaden their base in the fundamentals will greatly benefit from this training.

[ ] Engineer: Sales, Consulting, Designer, Draftsman

[ ] Non-Engineer: Technical Assistant, Application Specialist, Project Manager, Technician, Contractor, Estimator

**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 upon returning to their office. Past attendees have boosted their overall confidence and found many ways to apply their recently acquired knowledge.

### 2011 Course Offerings (Rochester, NY): (these classes are 3-days; Tuesday - Thursday)

[ ] May 10-13 'Systems Fundamentals' (HVAC Systems, Dehumidification, IceStorage-LowTempAir, Bldg Pressurization)

[ ] Jun 14-16 'Energy Efficient Design Fundamentals' (Chiller-Side, Air-Side, System Controls, Energy Recovery)

[ ] Aug 9-11 'Product Fundamentals' (AHU, WSHP, RTU, Chillers, Fan Coils, UV)

[ ] Sep 20 - Oct 25 'Introduction to Air Conditioning Fundamentals' (6-Tuesday evening series covering each of the above topics in a 3-hour 'big-picture overview')

Note: For more information about each of these classes, log onto [BeckerLearning.com](http://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: [Joe@BeckerLearning.com](mailto:Joe@BeckerLearning.com)

### More Details for 3-day courses:

**Where:** We will hold the 3-day classes at the Homewood Suites Hotel at 2095 Hylan Drive, Henrietta, NY 14623. You may reserve a room for the Becker Learning rate of \$104/night by calling (585) 334-9150 and telling them you are part of the Becker Learning group.

**Time:** We will start each morning at 8:00 AM and end by 5:00 PM (except Thursday when we end by 4:00 PM for travelers)

**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 as early as 5:15 p.m. on Thursday since our Henrietta, NY location is less than 10-minutes from the airport.


### More Details for 6-night Fall Intro Series:

**Where:** The specific Henrietta, NY location will be decided at least 30-days before the class & attendees will be emailed the appropriate information with plenty of notice. The class will run from 5:00 - 8:00 pm. No meal is provided, so attendees should catch dinner before the class starts.



**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

2011 Courses:	<input type="checkbox"/> Systems	<input type="checkbox"/> Energy Eff. Design	
(check all that apply)	<input type="checkbox"/> Products	<input type="checkbox"/> Fall 6-night Intro Series	
Name: _____ Title: _____			
Company Name: _____			
Address: _____			
Phone:(     ) _____		Email: _____	

Type	# of Courses	\$/course	Total Cost \$	Check # or PO #
3-day		\$1,100		
6-night		\$550		

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-II, 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 & Regional Sales Manager for the NE Territory.

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