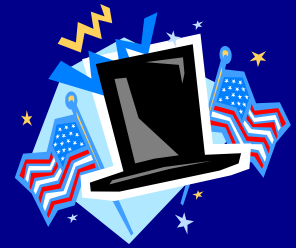




**INSIDE
THIS ISSUE:**

Officer / Committee List	2
Events Calendar	3
President Msg	4
Research Promotion	5
Presidential Gala Valentine Dance	6
YEA update	7
Governmental Affairs	8-10
Job Posting/ PAOE Points	11
Society News	12
Board Meeting Minutes	13-15
Student Activities	15
Air Conditioning Fundamentals	16-17



VOLUME 5, ISSUE 6

FEBRUARY 2, 2011

*Pay for Meeting Registration online via Paypal (no Paypal account required)
Use the following link: <http://rochester.ashraechapters.org/meetings.html>*

February ASHRAE Meeting (1 pdh has been approved for this meeting)

ASHRAE Awards Recognition Meeting – Please attend and show your support for all of our award winners

Monday, February 14, 2011

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

Time: 12 PM with Buffet Lunch Served

Cost: \$25.00

Speaker: Bruce W. Majer – Regional Manager BRD Noise & Vibration Control Inc.

Topic: HVAC Noise and Vibration Control

The two most common complaints about new HVAC installations are temperature and noise. This presentation will provide a basic understanding of acoustics and relevant terminology, acceptance criteria, noise control engineering techniques, cost considerations, and noise suppression methods. The higher costs associated with remediation of noise issues vs proper mechanical design will also be addressed.

Bruce W. Majer, Regional Manager of BRD Noise and Vibration Control Inc. has nearly 30 years of experience in vibratory noise control, with strong concentrations in acoustics and machine reliability. Prior to joining BRD in 2002 he worked as Service Manager and then Sales Manager at VSC. During that time he developed and maintained machine reliability programs for industrial and military facilities throughout North America. He is currently participating in development of certain noise criteria for the Navy's DDG 1000 Program (The new US Navy multi-mission destroyer)

Bruce attended Spring Garden College and earned certifications from PMC Beta, Quest Technologies, Technical Associates of Charlotte, International Research and Development, and the Vibration Institute. He is currently a practicing member of the American Society of Naval Engineers and the Acoustical Society of America.

*Pay for Meeting Registration online via Paypal (no Paypal account required)
Use the following link: <http://rochester.ashraechapters.org/meetings.html>*

Please RSVP by noon Thursday, February 10th to Tim Duprey, Phone: 585-402-5285 or dupreyt@ifsinc.net. **Please read member note on page 5 regarding reservations.**



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)
pmasters@herline.com

Board of Governors

Jeff Close

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

Phil Masters

585-346-9600
pmasters@herline.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

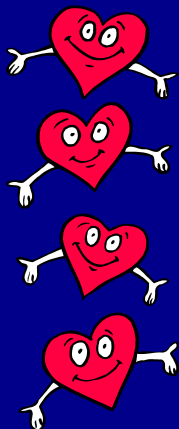
Christina Walter 585-486-2148/256-0067(fax)
cmwalter@trane.com

Attendance & Reception






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

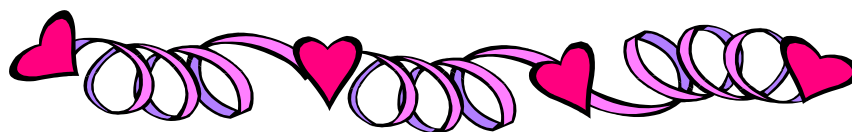
Webmaster

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



ASHRAE 2010-2011 Meeting Schedule

Date	Event	pdh / Theme	Location	Schedule
02/12/11	Gala to Honor Lynn Bellenger - ASHRAE Society President Annual ASHRAE Valentines Dinner Dance	----- 	Memorial Art Gallery	7:00 PM
02/14/11 	Bruce W. Majer BRD Noise and Vibration Control, Inc. HVAC Noise and Vibration Control	Awards Recognition Student / YEA Participation (1) pdh	Mario's	12:00 PM
03/14/11	ASHRAE Distinguished Lecturer Gordon V.R. Holness P.E. ASHRAE Standard 100 - Energy Conservation in Existing Buildings	Research Promotion (1) pdh pending	Mario's 	12:00 PM
04/11/11	 Refrigeration Night Jim Peters—Church Road Farms Apple Storage Facility—Refrigeration Tour	-----	Tour	Dinner
05/17/11	Annual ASHRAE Golf Outing and Picnic 	-----	Ravenwood Golf Club	9:30 AM Golf 4:30 - 8:00 Picnic





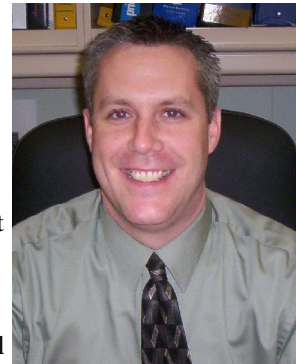
President's Message: by Jim Browe

The Rochester chapter had another great meeting in January with over 80 people in attendance. We heard a presentation on viable solar electricity for upstate NY facilities by Raj V. Rajan PhD

There are many debates about wind and solar power with both of them having benefits and downfalls. Solar technology has come along way and its costs are coming down making it a good choice. The overall message of the presentation is solar can be a viable option in our climate where we probably get 5 good months of solar activity if it is designed properly. Raj has been involved in 2 local solar projects, both residential and commercial and they both have met all expectations.

The next meeting is February 14th at Mario's and it starts at noon. Bruce W Majer from BRD Noise and Vibration Control, Inc will be presenting on HVAC noise and vibration control.

We also have a once in a lifetime event coming up on February 12th. It is our Presidential Gala in honor of Lynn Bellenger, the current ASHRAE Society President. Lynn is a partner at Pathfinders Engineers which is a local engineering firm. She has risen through the ASHRAE ranks and is now President of ASHRAE Society, which is the national level of ASHRAE. It is great that we have local representation at the national level and Lynn should be commended for all of her years of hard work both locally and nationally. So please, come to this event in honor of Lynn at the Memorial Art Gallery. Cocktails start at 6pm with dinner and dancing to follow. It will be a very nice 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

ASHRAE Research has almost \$1MM in research projects currently underway in Region I. Check out the website www.ashrae.org to learn more about projects that could improve your business.

A special thank you to our current contributors this year:

2010-11 Rochester Chapter Research Donors			
Ms Lynn G Bellenger	Major Donor - Silver	Mr Jeffrey C Ellis	Honor Roll Donor
R.P. Fedder Corporation	Major Donor - Bronze	Ms Michelle Sommerman	Honor Roll Donor
Slater Equipment Company Incorporated	Major Donor - Antique	Mr Jeffrey S Close	Honor Roll Donor
Air Systems Balancing & Testing Service	Honor Roll Donor	Mr Robert Wind, Jr	Honor Roll Donor
Mr James C Browe	Honor Roll Donor	Mr Peter Oppelt	Honor Roll Donor
Mr Thomas E Piekunka	Honor Roll Donor	Mr Edward Burns	Honor Roll Donor

* Updated 1-28-2011

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

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.

Attention Members:

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

ASHRAE Rochester Chapter Officers





You are cordially invited to the
54th Annual ASHRAE Valentine Dinner Dance

This year's event is dedicated to
Lynn Bellenger, P.E.

Rochester's first ASHRAE Society President

Saturday, February 12, 2011

Memorial Art Gallery

500 University Avenue

Rochester, New York 14607

6:00 p.m. Reception – Hors d'oeuvres

7:00 p.m. Dinner – as you selected

8:15 p.m. – Dessert and Coffee



Thanks to our many sponsors this year, we are able to keep the gallery open during our cocktail hour, as well as offer complimentary valet parking to all guests attending the Valentine Presidential Gala on February 12th. There is still time to be included in this event. Please contact Jody McGarry or Kate Mager at 585-482-3601 NO LATER THAN Friday, February 4th to reserve your place! Looking forward to seeing you there!

Menu Selections:

- Filet mignon with haricot vert, carrots, potato puree and red wine jus
- Roast airline breast of chicken forestiere (mushroom-tomato-garlic-herb ragout) with potato puree
- Atlantic salmon with warm lentil ragout, haricot vert and red wine jus
- Pasta primavera with a seasonal vegetable ragout

For reservations, please mail or fax the below registration form.

Please make checks payable to: Rochester Chapter ASHRAE and mail to: ABR Wholesalers, Inc.,

Attn: Jody McGarry, 510 North Goodman St, Rochester, NY 14609

Phone: (585) 482-3601 Fax: (585) 482-6698

PLEASE CIRCLE ONE MEAL SELECTION:

1. Name: _____ Beef – Chicken – Fish – Vegetarian

2. Name: _____ Beef – Chicken – Fish – Vegetarian

Number of people ____ x \$65.00* per person = \$_____ (enclosed)

* Special price of \$50 per person for members of the Y.E.A.



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.

Thank you for another wonderful turn-out at MacGregor's on Friday, January 14th for our YEA Happy Hour. We will keep you posted on the next one. If you have a preferred location, let us know and we'll make sure to bring the Happy Hour to you.



UPCOMING EVENTS



Saturday, 12 February 2011 @ 6:00 P.M.

Celebrate with ASHRAE at the Memorial Art Gallery as we honor Lynn Bellenger, PE as Rochester's 1st National ASHRAE President and ASHRAE's 1st Female President.

YEA MEMBER DISCOUNT @ \$50/person

For more information, contact Jaimee Reynolds: jreynolds@pathfinder-ea.com

- **March**– YEA Technical Session – **Limited to 15 people**
Learn the basics of Chiller Plant design and general troubleshooting techniques through a real-life application at RIT
Location : RIT Chiller Plant
For more information, contact John Roylance: john.roylance@trane.com

- **Monday, April 11, 2011**– ASHRAE Refrigeration Tour
Learn about maintaining fresh apples all year long at a local Apple Storage Facility
Location : Church Road Farms with Jim Peters
For more information, contact Jaimee Reynolds: jreynolds@pathfinder-ea.com



- **Tuesday, May 17, 2011** – YEA Mini-Golf and Driving Range
Practice your short game before meeting up with the ASHRAE Chapter at Ravenwood Golf Club
Location: Auburn Creek Driving Range & Mini-Golf
7331 Victor-Mendon Rd, Victor, NY 14564
For more information, contact Jaimee Reynolds: jreynolds@pathfinder-ea.com

GET INVOLVED

Become a Mentor to local RIT Students, Help plan ASHRAE programs by joining the local ASHRAE Program Planning Committee, Help create standards like ASHRAE 90.1 and 62.1 by joining a National ASHRAE Technical Committee. **If you would like to help us plan activities and services for YEA, please join us at our committee meetings. Lunch is provided. For more information, contact:**

Eric Smith: esmith@turnerengineering.com OR Jaimee Reynolds: jreynolds@pathfinder-ea.com

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.

ASHRAE Government Affairs Update, 1/28/11

- [Research, Renewable Energy, STEM Education Highlighted in President Obama's State of the Union Address](#)
- [National Institute of Standards and Technology Holds Roundtable on Federal Engagement in Standards](#)
- [ASHRAE Leads Sign-On Letter Effort to Keep Solar Decathlon on the National Mall for 2011](#)
- [EESI and HPBCCC Hold Briefing on Capitol Hill on Factory-Built Housing](#)

[Research, Renewable Energy, STEM Education Highlighted in President Obama's State of the Union Address](#)

This past week President Barack Obama gave his State of the Union (SOTU) address to Congress, and in it focused attention on research, renewable energy, and science, technology, engineering, and mathematics (STEM) education. While the SOTU was, as typical, light on details, legislative and regulatory ideas and strategies are already being quietly debated. We can expect more insights into the Administration's proposals and priorities when the President submits his budget request to Congress in the coming weeks.

Significantly, in an effort to control the growing national deficit and debt, the President announced that in his budget request he will propose freezing annual domestic spending for the next five years. This proposal has a long way to go before becoming law – it must first be introduced in and then passed by Congress. However if this freeze were to occur, it would constrain the activities and options available for the President and Congress to achieve their goals, and likely put a halt to any major new activities without commensurate cuts elsewhere.

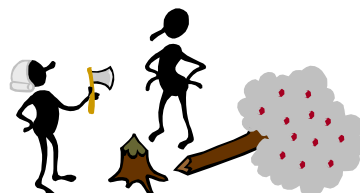
Depending on the specific proposals and priorities that come from the Administration, the building industry may be affected in significant ways, and ASHRAE will have much to contribute as the Obama Administration and Congress weight various policy proposals. Although few details were revealed, below are a few key excerpts from the President's SOTU on research, renewable energy, and STEM education. These excerpts offer key insights into the Administrations' thinking and goals, providing useful hints of what may be to come.

Research:

"Our free enterprise system is what drives innovation. But because it's not always profitable for companies to invest in basic research, throughout our history, our government has provided cutting-edge scientists and inventors with the support that they need..."

"This is our generation's Sputnik moment. Two years ago, I said that we needed to reach a level of research and development we haven't seen since the height of the Space Race. And in a few weeks, I will be sending a budget to Congress that helps us meet that goal..."

"With more research and incentives, we can break our dependence on oil with biofuels, and become the first country to have a million electric vehicles on the road by 2015."



**Renewable Energy:**

“[T]o spur on more success... we’ve begun to reinvent our energy policy. We’re not just handing out money. We’re issuing a challenge. We’re telling America’s scientists and engineers that if they assemble teams of the best minds in their fields, and focus on the hardest problems in clean energy, we’ll fund the Apollo projects of our time...”

“Now, clean energy breakthroughs will only translate into clean energy jobs if businesses know there will be a market for what they’re selling. So tonight, I challenge you to join me in setting a new goal: By 2035, 80 percent of America’s electricity will come from clean energy sources.

“Some folks want wind and solar. Others want nuclear, clean coal and natural gas. To meet this goal, we will need them all -- and I urge Democrats and Republicans to work together to make it happen.”

STEM Education:

“Maintaining our leadership in research and technology is crucial to America’s success. But if we want to win the future -- if we want innovation to produce jobs in America and not overseas -- then we also have to win the race to educate our kids...”

“Over the next 10 years, nearly half of all new jobs will require education that goes beyond a high school education. And yet, as many as a quarter of our students aren’t even finishing high school. The quality of our math and science education lags behind many other nations. America has fallen to ninth in the proportion of young people with a college degree...”

“[O]ver the next 10 years, with so many baby boomers retiring from our classrooms, we want to prepare 100,000 new teachers in the fields of science and technology and engineering and math...”

“Of course, the education race doesn’t end with a high school diploma... [T]his year, I ask Congress to go further, and make permanent our tuition tax credit -- worth \$10,000 for four years of college.”

To view the President’s State of the Union address in full, visit <http://www.whitehouse.gov/the-press-office/2011/01/25/remarks-president-state-union-address>.

National Institute of Standards and Technology Holds Roundtable on Federal Engagement in Standards

The federal government is looking for low-cost levers to achieve their objectives. As part of this effort, this past week the U.S. Department of Commerce, National Institute of Standards and Technology, and National Science and Technology Council hosted a roundtable on the federal government’s involvement in standards development and conformity assessment. This particular roundtable focused on the Smart Grid, electronic health records, cyber security, cloud computing, and emergency communications; however the government is engaged in an effort to obtain information on the effectiveness of federal involvement in standards development more broadly, across a range of issue areas and industries, including the building industry.

More specifically, the federal government has issued a request for information (RFI) that seeks public comment on the following: 1) The effectiveness of the methods federal agencies have used to engage in standards-setting activities by identifying which methods have enhanced or limited the public-private standards-setting processes; 2) The effectiveness of federal agencies’ coordination with the private sector; 3) The adequacy and availability of federal resources; 4) Other issues that arise and are considered during the standards-setting process which impact the process, and the timeliness, adoption, and use of the resulting standards.

The information provided to the government on these issues will aid in the government’s development of case studies that agencies can use to guide their future involvement in standards development.

ASHRAE is currently working with the American National Standards Institute (ANSI) to draft comments in response to this RFI. ASHRAE also plans to submit its own comments on this matter.

Comments are due by 5:00pm Eastern Time on March 7, 2011. For additional information on this RFI, please contact Mark Ames, ASHRAE Manager of Government Affairs, at mames@ashrae.org, or 202-833-1830.

ASHRAE Leads Sign-On Letter Effort to Keep Solar Decathlon on the National Mall for 2011

Plans were recently announced to move the 2011 U.S. Department of Energy Solar Decathlon from the National Mall to another location, yet to be determined. Learning of this, ASHRAE is leading a sign-on letter effort on behalf of the High-Performance Building Congressional Caucus Coalition (HPBCCC) to keep the Decathlon on the Mall in 2011.

This letter will be transmitted to President Barack Obama, U.S. Department of Interior Secretary Ken Salazar, U.S. Department of Energy Secretary Steven Chu, and prominent House and Senate committee members with jurisdiction over this matter.

One of the stated reasons for the planned move from the Mall is to support efforts to protect and restore the National Mall. The letter agrees with these efforts – sustainability is after all a core aspect of high-performance buildings – however signatories believe that moving the Decathlon to another location only months before the event is set to occur would place unnecessary hardship on college competitors and event sponsors – many of which have already budgeted for and planned on holding the event in Washington, DC. Signatories do support exploring other locations for the Decathlon in future years.

Formed in 2008, the High-Performance Building Congressional Caucus Coalition is a coalition that represents over 300,000 engineers, architects, manufacturers, code officials, and other building industry professionals. For more information, visit www.hpbccc.org.

The Solar Decathlon is an award-winning competition that challenges 20 collegiate teams to design, build, and operate solar-powered houses that are cost-effective, energy-efficient, and attractive. The winner of the competition is the team that best blends affordability, consumer appeal, and design excellence with optimal energy production and maximum efficiency.

The Decathlon has been held biennially since 2002, and is open to the public, free of charge. Visitors can tour the houses in the competition, gather ideas to use in their own homes, and learn how energy-saving features can help them save money. For more information on the Decathlon, visit www.solardecathlon.gov.

Now Available: ASHRAE’s Policy Requests Document for the New Congress

As the 112th Congress gets underway, ASHRAE has released its policy requests for the new Congress, as embodied in the document, “Protecting America’s Economy & Conserving Our Environment: The Buildings Answer”.

This document, intended to act as background information and a conversation-starter for new Members of Congress and returning Members who might not be familiar with ASHRAE, contains a wide variety of recommendations and requests in the following topical areas:

Energy Policy & Climate Change, Incentives for Implementing Energy Efficiency, Research and Development to Achieve Energy Goals, Indoor Air Quality, Federal Agencies as National Leaders, Education as a Critical Tool, Government-wide Activities to Further Science and Technology

This new policy document will soon be available on ASHRAE’s Website at www.ashrae.org/advocacy. If you would like a copy now, please send your request to Mark Ames at mames@ashrae.org, and he will email you the document in PDF format.

EESI and HPBCCC Hold Briefing on Capitol Hill on Factory-Built Housing

The Environmental and Energy Study Institute (EESI) and the High-Performance Building Congressional Caucus Coalition (HPBCCC) recently held a briefing on Capitol Hill for Congressional staff and members of the building community, entitled “Sustainable and Affordable: New Options in Factory-Built Housing”. This briefing discussed innovations in factory-built housing that are pushing the envelope for quality and performance while meeting the needs of low-income home buyers.

As the briefing notice indicated, factory built homes have the benefits of being constructed inside a manufacturing plant (avoiding weather-related delays), standardization that improves consistency and eliminates waste, and a design/build process that facilitates innovation and quality control. These characteristics allow manufacturers to produce high-quality housing much more quickly and cost effectively than homes that are site-built.

This briefing addressed manufactured housing –permanent housing (not trailers), produced almost entirely in the factory to federal minimum standards (the HUD Code) – and modular housing, made with prefabricated components and assembled on site to local code.

Manufactured housing is the largest source of unsubsidized affordable housing in the United States, but most manufacturers are not using the most advanced energy-saving designs and technologies that could reduce monthly energy costs. This briefing presented recent research and practices of companies that are working to make housing more affordable for more American home buyers, more profitable for American businesses, and more sustainable.

Speakers at the briefing included:

- Emanuel Levy, Executive Director, Systems Building Research Alliance, New York, NY,
- Kevin Clayton, President, Clayton Homes, Inc., Maryville, TN
- George Mongell, President and CEO, Terradime, LLC, Pittsburgh, PA



The U.S. Department of Housing and Urban Development (HUD) defines affordable housing as that which consumes less than 30 percent of household income. According to the latest data from the U.S. Census Bureau, more than 40 million U.S. households pay more than that for their housing.

For more information on this briefing, please contact Ellen Vaughan, Policy Director for High Performance Green Buildings at EESI, at evaughan@eesi.org.

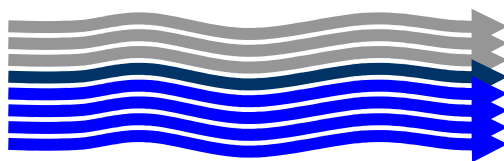
Job Postings & Help Wanted



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.



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.

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	0	120	335	325	0	110	890



Society News: Final Energy Savings Figures Announced for 2010 Energy Standard

ATLANTA – More than 30 percent energy savings can be achieved using the recently published 2010 version of Standard 90.1 vs. the 2004 standard, according to an announcement made today by ASHRAE at its 2011 Winter Conference, taking place this week.

ANSI/ASHRAE/IES Standard 90.1-2010, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, which provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings, was published in November 2010. ASHRAE was awaiting the final results of analysis work from Pacific Northwest National Laboratories in support of the U.S. Department of Energy (DOE) Building Energy Codes Program on addenda included in the standard. The final figures were made available this week and were announced today at ASHRAE's annual press breakfast.

Without plug loads, site energy savings are 32.6 percent and energy cost savings 30.1 percent. Including plug loads, the site energy savings are estimated at 25.5 percent and energy cost savings 24 percent.

"Three years ago, the 90.1 project committee set an aggressive goal of 30 percent savings for the 2010 version," ASHRAE President Lynn G. Bellenger said. "That the target was met and exceeded is a testament to the talent and dedication of the men and women from ASHRAE and the Illuminating Engineering Society (IES) who developed and evaluated over 119 change proposals to increase the stringency of our flagship energy conservation standard. At the 35th anniversary of Standard 90.1,

it continues to lead the way in our industry as the minimum standard for energy efficiency."

On a nationally aggregated level, building type energy savings ranged from 8.8 percent to 38.3 percent and energy cost savings from 7.9 percent to 33.6 percent. These figures include energy use and cost from plug loads.

Extensive analysis work was performed by a team from Pacific Northwest National Laboratories in support of the DOE Building Energy Codes Program. Sixteen different building prototypes were modeled in 17 different climate zones for a total of 272 building types and climate zone combinations.

How was the energy reduction achieved? Here are a few examples:

- The **Scope** was expanded so that 90.1 covers receptacles and process loads, including data centers. This allows future addenda to the standard to address energy consuming equipment and systems previously outside its scope.
- **Building Envelope:** Continuous air barrier and cool/high albedo roof requirements were added.
- **Lighting:** Most interior Lighting Power Densities were lowered, and additional occupant sensing controls and mandatory daylighting requirements were added for specific spaces, along with a new five-zone exterior Lighting Power Density table.
- **Mechanical:** Most equipment efficiencies are higher, energy recovery is required in more applications, economizers are required in more climates and more energy-conserving controls

are required.

- **Modeling requirements** have been clarified and expanded so that building modelers can more accurately compare energy cost of their building project with an appropriate baseline building as defined by the standard.

"The 90.1 standard is a fluid document," Mick Schwedler, immediate past chair of the 90.1 committee, said. "As technology evolves, the project committee is continually considering new changes and proposing addenda for public review. The rigorous, open, public review process following ASHRAE and American National Standards Institute (ANSI) procedures, results in a document that is both technically sound and reaches consensus."

"I agree wholeheartedly with Mick on the strength attributes of Standard 90.1 based on our ASHRAE/ANSI consensus process," echoed Steve Skalko, current chair of the committee. "As we look ahead to exploring new areas of energy savings from energy consuming equipment and systems, we will seek input from materially affected and interested parties. We welcome their input to help the project committee in this endeavor."

The standard is written in mandatory code language and offers code bodies the opportunity to make a significant improvement in the energy efficiency of new buildings, additions and major renovations.

ASHRAE is an international technical society that fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

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

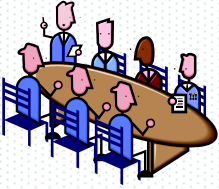
The ASHRAE Chapter Bulletin should reflect the opinions, activities and needs of it's members. We represent an active membership and the Bulletin can provide a valuable and enjoyable forum for news of our individual members.

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

Reminder

Go to 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.





AMERICAN SOCIETY OF HEATING, REFRIGERATING & AIR CONDITIONING ENGINEERS

ROCHESTER N.Y. CHAPTER

BOARD OF GOVERNORS MEETING MINUTES

Meeting Date: 1/7/2011

President	Jim Browe	X
President Elect/Program	Jeff Ellis	
Vice President-Tech Session	Michelle Sommerman	X
Secretary	Rob Wind	X
Treasurer	Ed Burns	
Membership	Phil Masters	X
Immediate Past President/CRC	Jeff Davis	
Newsletter	Christina Walter	X
Attendance	Tim Duprey	X
Awards/Student Activities	Al Rodgers	
Buyers Guide	Chuck White	
Historian	Lee Loomis	
Board of Gov. (3)	Jeff Close	
Board of Gov. (3)	Phil Masters	X
Board of Gov. (2)	William Murray	X
Board of Gov. (2)	Tim Duprey	X
Board of Gov. (1)	Christina Walter	X
Board of Gov (1)	Eric Smith	X
Web Site	Kevin Wind	
Refrigeration	Mike Nohle	X
Picnic	Ed Burns	
Nominating	Joe VanCura	
Valentine's Dinner Dance	Jody M. McGarry	X
CTTC Chair	Jeff Davis	
YEA	Jaimee Reynolds	X
Region Chair	Spencer Morasch	



Roll Call: The above noted individuals were present.

Call to Order: 12:05pm

Minutes: BOG Meeting Minutes were accepted.

Treasurer's Report: Ed Burns

PayPal.

PayPal will be up and running by February.

Charles Lynch Fund.

The signatures need to be changed if we intend to make a distribution.

Laptop Computer.

Vote was taken on the purchase of a laptop.

Approval was for the purchase of laptop, MS Office, and Quickbooks not to exceed \$1,300.

Technology Transfer: Jeff Davis

No Report.

Program/Tech Session: Jeff Ellis / Michelle Sommerman

No Changes to the meeting schedule.

Membership: Phil Masters

239 current members (count reported in previous meetings was incorrect.

No new members this month.

Attendance: Tim Duprey

December

78 in attendance.

January

77 RSVP's.

Student Activities/Awards: Al Rodgers

RIT Student Chapter is meeting again after the break.

Two tours are planned to be scheduled.

Caulkins Road Wegmans store to review total energy system.

Infotronics in Canandaigua.

YEA: Jaimee Reynolds

A draft of the YEA MOPS was distributed by e-mail to board members.

These were voted on and approved as amended.

December meeting was at TC Riley's at RIT.

Tentative Nighthawks event in March with tour of Blue Cross Arena.

Refrigeration: Mike Nohle

Tour is being set up of Church Road Farms

They use a water defrost system there

Controls are green (minimizing energy consumption)

Pulthnyville Grille for dinner.

Approximately 40 minutes travel from Rochester.

Newsletter: Christina Walter

- This month's articles are due 1/21/11.

Buyers Guide: Chuck White

Websites suggestions need to be reviewed with Jeff Ellis, Jim Browe, Chuck White and Kevin Wind.

Meeting next week.

Website:

No report.

Nominating: Joe VanCura

No Report.

Valentines Dinner Dance:

Jody to review with Lynn on how she wants her title printed.

May be able to get the gallery open for free.

The Next BOG Meeting is at 12:00 PM on 2/4 at R.F. Peck Company

The meeting was adjourned



Student Activities: Al Rodgers

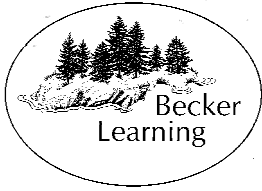
The RIT student group had two very interesting tours. First was a “nuts and bolts” tour of the Smart System Technology & Commercialization Center (STC) (formerly Infotonics) in Canandaigua. This included HVAC, clean rooms, process piping systems, various process equipment and wastewater systems. Thanks to Rebecca Lathrop for her assistance in providing an in-depth look at a very special building.

The second was of the Wegmans Calkins Road store. This tour focused on the energy recovery and new technology systems Weg-

mans is using on their stores. Thanks to Mark Argenta and Rich Kelley of Wegmans for their assistance.

Students are looking for co-op positions and summer placement. A few are looking for full-time employment. Give me an email or call if you are interested or want more information. I have some good prospects in the HVAC class this quarter.

Al Rodgers, 2010-2011 Student Activities Chair



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)

[] Feb 15-17 'Airside Fundamentals-I' (Load Design and Psychrometrics)

[] Mar 15-17 'Airside Fundamentals-II' (Duct Design, Fans & Fan Laws & Acoustics)

[] Apr 12-14 'Refrigeration Fundamentals' (Refrig Basics, Refrig Piping, Refrig & Our Environment)

[] 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

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

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"/> Airside-I	<input type="checkbox"/> Airside-II	<input type="checkbox"/> Refrigeration	<input type="checkbox"/> Systems
(check all that apply)	<input type="checkbox"/> Energy Eff. Design	<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.

<p>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</p>

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.