

ASHRAE Rochester



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VOLUME 5, ISSUE 8

APRIL 1, 2011

Monday, April 11, 2011 ASHRAE Meeting (Refrigeration Night)

Location: **Dinner / Tech Session:**
Pultneyville Grill 4135 Mill Street, Pultneyville NY

Tour: Church Road Farms 3842 Church Road Williamson NY

Time: 6 PM Buffet Dinner Served at Pultneyville Grill, Tour to follow
Cost: \$25.00

Topic: Apple Cold Storage Facility

On Monday, April 11, 2011 we will hold our annual Refrigeration Night program. This year we will be having a dinner meeting followed by a tour of the apple cold storage facility at Jim and Laurie Peter's Church Road Farms, in Williamson, New York.

The program will begin with a dinner and technical session at the Pultneyville Grill, 4135 Mill Street, Pultneyville, New York (RSVP's required). We will have a gourmet buffet style dinner at what is a warm and inviting, harbor side landmark in this historic hamlet located on the South shore of Lake Ontario.

Featured in the technical presentation and the tour is a recently built, two building 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 manufactured by ENERSAVE, LLC, headquartered in Walker, Michigan (enersavelc.com). Our gracious host for the tour is Jim Peters who with his wife Laurie, owns and operates the cold storage at Church Road Farms. Jim started growing apples in the Williamson area back in 1973. He built his impressive ten room storage facility in 2007 and 2008. The capacity of the facility is 360,000 bushels in controlled atmosphere rooms and 100,000 bushels in regular storage. Jim has become very knowledgeable in refrigeration and particularly, in the ENERSAVE Refrigeration Control System.

The presenters of our technical session will be Scott Sovereign and Frank Van Kempen, owners and founders of ENERSAVE, LLC. Scott, who is a Professional Engineer with expertise in Thermodynamics, will be making a presentation which will be an overview of the refrigeration system installation and operation and the unique water defrost system.

Frank, who is a Master Electrician, will make the presentation on the ENERSAVE Refrigeration Control System.

The combination of the varying capacity mechanical refrigeration equipment, the atmosphere regulating systems, and the ENERSAVE control system, makes for a very energy efficient means of producing the storage environment necessary for maintaining the quality and integrity of the product for long term storage. The ENERSAVE Refrigeration Control Program has been installed in over 30 refrigerated apple storages in West Michigan comprising over 5.5 million bushels of storage, 1 refrigerated facility in Canada comprising 1 million bushels of storage, and 4 storage customers in New York comprising 1.5 million bushels of storage. The electrical cost of product storage in all these facilities has been reduced significantly.

Come on out with us on April 11, 2011, for what is sure to be an enjoyable and highly informative Refrigeration themed program.

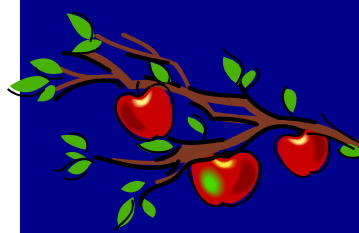
Pay for Meeting Registration online via PayPal (no PayPal account required)

Use the following link: <http://rochester.ashraechapters.org/meetings.html>

Cash or check payment still accepted at the door with your reservation.



Please **RSVP by noon Monday, April 4th** to Tim Duprey, Phone: 585-402-5285 or dupreyt@ifsinc.net.
Please read member note on page 17 regarding reservations.





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*April 27:
Happy
Administrative
Professional's Day*

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Attendance & Reception

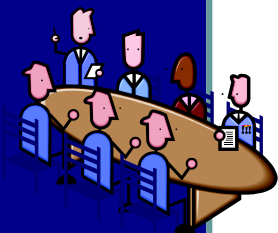
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ASHRAE Region I Executive Committee 2010-2011



DRC—Director & Regional Chair:	Spencer Morasch, Jersey Central Power Light Ph: 732-212-4133 smorasch@firstenergycorp.com
ARC—Assistant & Regional Chair & Treasurer:	Joseph Furman, Belimo Americas Ph: 203-749-3163 joe.furman@us.belimo.com
Nominating Committee Member:	Cliff Konitz Ph: 845-297-5864 c.konitz@verizon.net
Nominating Committee Alternate:	Emery Otruba, PE Ph: 518-686-4436 eotruba@eepdx.com
RVC Membership Promotion:	Richard Vehlow, NYS OGS Ph: 518-474-2471 Rev1969@gmail.com
RVC Research Promotion:	Darcy Carbone, Stebbins-Duffy, Inc Ph: 617-957-2567 dcarbone@stebbinsduffy.com
RVC Chapter Technology Transfer:	Steve Rosen, Einhorn, Yaffee & Prescott Ph: 508-269-8952 srosen@eypae.com
RVC Student Activities:	Om Taneja, General Services Administration Ph: 212-264-4465 Om.taneja@gsa.gov
Regional Chapter Programs:	Peter Oppelt, R. F. Peck Ph: 585-697-0836 x103 poppelt@rfpeck.com
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Regional Electronics Communication Chair & Newsletter Judge:	Heather Nowakowski, Roswell Park Cancer Inst Ph: 716-845-3521 Heather.nowakowskie@roswellpark.org
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Director of Communications and Publications:	Jodi Dunlop Ph: 404-636-8400 jdunlop@ashrae.org





President's Message: by Jim Browe

The Rochester chapter had a great meeting in March. We had our last lunch meeting on March 14th where Gordon V.R Holness P.E. who presented on ASHRAE Standard 100 – energy conservation in existing buildings. Our greatest opportunity for a sustainable future is in retrofitting existing buildings. 75-80% of all buildings that will exist in 2030 already exist today. 86% of construction today relate to existing buildings. Buildings consume 40% of all energy. This is why it is extremely important when we're designing new systems or retrofitting systems in existing buildings that we use ASHRAE Standard 100-2006R as our guide. Even though March was our last lunch meeting it doesn't mean we are done for the season. We have two more great events coming up. April is our Refrigeration Night with a tour at the Apple Storage Facility at Church Road Farms. Then in

May 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 please contact myself at jbrowe@rfpeck.com or Ed Burns at ejb@mechtechvac.com. I'm looking forward to seeing everyone at these exciting events!



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.



New York
Upstate Chapter
greenupstateny.org

NY Upstate Genesee Region & Rochester ASCE
Presents:

Structures, Building Envelopes, and the Planet

Where:

Shadow Lake
1850 Five Mile Line Rd
Penfield, NY 14526

When:

Sign-in @ 11:15am
Presentation
11:30am –1:30pm

Cost:

\$35 Chapter Member
\$40 Non-member
(Lunch included)

Registration:

By **Monday**
April 4th

Thursday April 7th
11:15 a.m. –1:30 p.m.

1.5 AIA/CES LU, 2.0 GBCI CMP, 2.0 PDH

Creating buildings that actually accomplish low energy usage requires careful attention to the building envelope details. The structural elements that are part of the building envelopes can sometimes make or break a building's energy performance. We'll address thermal bridging, foundation insulation discontinuities, identify some problem conditions (using infrared images), and present some solution options. We'll also review positive and negative sustainability aspects of concrete, wood, and steel. At the end we'll compare the attributes of "stick" (stud and purlin) construction, Structural Insulated Panels, and Insulated Concrete Forms.

Learning Objectives:

- Discern the sustainability advantages vs. disadvantages of the most common structural building materials.
- Compare the energy loss potential of details with thermal steel bridging, compared to an envelope with no bridging.
- Identify structural details that can compromise a building envelope's performance.
- Contrast the energy loss potential of different foundation and slab edge details.
- Become familiar with the basics of Structural Insulated Panel (SIP) construction and Insulated Concrete Form (ICF) construction, and some of their benefits.

Speaker:

Jim D'Aloisio is a Principal with Klepper, Hahn & Hyatt, a 32-person structural engineering, landscape architecture, and building science firm based in East Syracuse, NY, Syracuse, NY. Mr. D'Aloisio is a Registered Professional Engineer, Certified by the Structural Engineering Certification Board (SECB), and a LEED Accredited Professional (LEED AP BD+C). He is currently Chair of the U.S. Green Building Council's New York Upstate Chapter, a former USGBC National Board Member, and Chair of the ASCE Structural Engineering Institute (SEI) Thermal Steel Bridging Task Committee

**To register, please email Missy Evans at Atlantic Testing
@ mevans@atlantictesting.com or call (585) 427-9020.
Thank you!**

Research Promotion: Jeff Close

ASHRAE Research Promotion

GRAY METAL PRODUCTS has stepped forward again this year with a Golden Circle contribution for ASHRAE Research. The prestigious Golden Circle level is reserved for those who contribute \$10,000 or more. We are extremely honored to have such a major contributor to ASHRAE Research from our Rochester Chapter. Please join me in thanking Gray Metal Products once again for their generous contribution.

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 13th, 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.

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

A special thanks to our current contributors this year:

2010-11 Rochester Chapter Research Donors			
Gray Metal Products, Inc.	ASHRAE Golden Circle	Mr Joseph R VanCura	Honor Roll Donor
ASHRAE Rochester Past Presidents	ASHRAE Associate	Mr James C Browe	Honor Roll Donor
Ms Lynn G Bellenger	Major Donor - Silver	Mr Jeffrey C Ellis	Honor Roll Donor
R.L. Kistler Inc.	Major Donor - Bronze	Mr Thomas E Piekunka	Honor Roll Donor
R.P. Fedder Corporation	Major Donor - Bronze	Ms Michelle Sommerman	Honor Roll Donor
Slater Equipment Company Inc.	Major Donor - Antique	Mr Jeffrey S Close	Honor Roll Donor
RF Peck Company, Inc.	Major Donor - Antique	Mr Robert Wind, Jr	Honor Roll Donor
Turner Engineering	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 3-25-2011

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 ***

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



ASHRAE WEBCAST
April 21, 2011 – 1:00 p.m. – 4:00 p.m. EDT
**“Ground Source Heat Pump Systems: Putting the Earth to Work
for You”**

ASHRAE’s Chapter Technology Transfer Committee with support from **ClimateMaster, Mammoth, Taco**, the **International Ground Source Heat Pump Association**, and the **ASHRAE Foundation** will present a *free* Webcast, “**Ground Source Heat Pump Systems: Putting the Earth to Work for You**” on **Thursday, April 21, 2011**. The program will be archived online until **May 5, 2011** for those unable to participate in the live webcast. Registration will be required to view the archived program.

Hear from leading heat pump experts how site, climate, building, HVAC system and ground characteristics affect ground heat exchanger design, how ground source system design enhances efficiency, and how to avoid design and operations pitfalls. This free webcast is brought to you by the Chapter Technology Transfer Committee and sponsored by **ClimateMaster, Mammoth, Taco, International Ground Source Heat Pump Association**, and the **ASHRAE Foundation**.

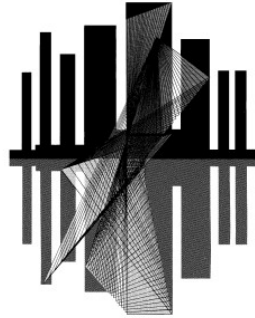
Online Registration begins March 21, 2011

To add a registration reminder to your Outlook and find additional information regarding the program and presenters, visit www.ashrae.org/GHPwebcast.

If you have any questions or need assistance, please call (678) 539-1200 or email ashrae-webcast@ashrae.org.

Thank you for supporting ASHRAE webcast programs.

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 for the Chapter's Technology Award competition **no later than April 30th.**

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



2010 ASHRAE PICNIC SPONSORSHIP FORM

Tuesday, May 17, 2011

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

*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*

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

Sponsorship Name	X here for your Sponsorship	Sponsorship Amt.
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
Total Check Amount:		



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

**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) _____

Ticket Request Form			
Event	Fee Amount	No. Attending	Total
Golf	\$85.00		\$
Picnic	\$45.00		\$
OR:			
Golf and Picnic (SAVE \$10.00)	\$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)

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 (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 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.



Thanks to our tour guides for showing us a wide array of mechanical systems at the University of Rochester-Central Utility Plant on Wednesday, March 16, 2011

UPCOMING EVENTS



- **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
- **Friday, April 15, 2011 @ 500pm** – YEA Happy Hour
Location: MacGregor's by RIT (Henrietta); 300 Jefferson Road, Rochester 14623
- **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



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 (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 or 585-289-6816).

ASHRAE Learning Institute Spring 2011 Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Note: You may register up to 24 hours prior to an online seminar. Courses are in US Eastern Standard Time.



Using Standard 90.1 to Meet LEED Requirements
Monday, March 28, 2011 – 1:00 p.m. to 4:00 p.m.

District Cooling & Heating Systems: Central Plants
Wednesday, April 20, 2011 – 1:00 p.m. to 4:00 p.m.

Fundamental Requirements of ASHRAE Standard 62.1-2010
Wednesday, March 30, 2011 – 1:00 p.m. to 4:00 p.m.

Understanding Air-to-Air Energy Recovery Technologies & Applications
Monday, April 25, 2011 – 1:00 p.m. to 4:00 p.m.


Application of ASHRAE Standard 62.1-2010
Wednesday, April 6, 2011 – 1:00 p.m. to 4:00 p.m.

Basics of High Performance Building Design 
Wednesday, April 27, 2011 – 1:00 p.m. to 4:00 p.m.

The Commissioning Process & Guideline 0
Monday, April 11, 2011 – 1:00 p.m. to 4:00 p.m.

Complying with Standard 90.1-2010 HVAC/Mechanical
Monday, May 2, 2011 – 1:00 p.m. to 4:00 p.m.

Avoiding IAQ Problems Using ASHRAE's New IAQ Guide
Wednesday, April 13, 2011 – 1:00 p.m. to 4:00 p.m.

Advanced High Performance Building Design 
Wednesday, May 4, 2011 – 1:00 p.m. to 4:00 p.m.

Understanding Standard 189.1 for High Performance Buildings
Monday, April 18, 2011 – 1:00 p.m. to 4:00 p.m.

Complying with Standard 90.1-2010 Envelope/Lighting
Wednesday, May 11, 2011 – 1:00 p.m. to 4:00 p.m.



ASHRAE HVAC Design Essential Workshop

May 18-20 • ASHRAE Foundation Learning Center • Atlanta, GA

ASHRAE Certification Programs

In three days, you will

- Participate in in-depth, practice-focused training
- Improve overall building performance
- Effectively collaborate on an integrated design team
- Learn from industry leaders selected by ASHRAE
- Gain real-world experience to make immediate contribution to design projects

ASHRAE created the HVAC Design Essentials to provide intensive, practical education for HVAC designers and others involved in delivery of HVAC services. Developed by industry-leading professionals, this workshop provides attendees with the fundamental and technical aspects of HVAC design in commercial buildings.

In three days, you will gain practical skills and knowledge to design, install and maintain HVAC systems that can be put to immediate use. The workshop provides real-world examples of HVAC systems including calculation of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.


Who Should Attend

Professionals at:

- Mechanical design firms
- Architectural firms
- Mechanical consulting firms
- Facility management departments
- Sales engineering firms
- Utility companies



Visit www.ashrae.org/hvacdesign to register

- Building Energy Assessment Professional (BEAP) 
- Building Energy Modeling Professional (BEMP)
- Commissioning Process Management Professional (CPMP)
- Healthcare Facility Design Professional (HFDP)
- High-Performance Building Design Professional (HBDP)
- Operations & Performance Management Professional (OPMP)

For more info, visit
[www.ashrae.org/
certification](http://www.ashrae.org/certification)

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, 3/25/11

- [Congress Passes 6th Continuing Resolution, Cutting \\$6 Billion in Non-Security Discretionary Spending, and Funding the Government until April 8](#)
- [DOE Requests Public Comment on Its Quadrennial Technology Review of Energy Technology Policies and Programs](#)
- [DOE Helps Launch the Multi-Agency i6 Green Challenge for Commercialization](#)
- [ASHRAE Submits Letter to California State Assembly in Support of the IGCC](#)
- [ASHRAE Meets with Senate Democratic and Republican Staff to Discuss Upcoming Energy Bills](#)
- [High-Performance Building Caucus Holds Congressional Briefing on Retro-commissioning](#)
- [DOE Fellowships to Support the Next Generation of Clean Energy Innovators](#)



[Congress Passes 6th Continuing Resolution, Cutting \\$6 Billion in Non-Security Discretionary Spending, and Funding the Government until April 8](#)

On March 18, President Barack Obama signed into law a 6th continuing resolution (CR), which the House and Senate each passed earlier that week. This latest CR (H.J.Res. 48) funds the federal government until April 8, and temporarily avoids a government shutdown.

This latest CR cuts federal spending by \$6 billion. The U.S. Department of Energy (DOE) was not among the agencies subject to these funding reductions.

Negotiations are ongoing within and between the House and Senate on how to proceed with a spending bill for the rest of the current fiscal year. Conservative House Republicans are demanding cuts of at least \$62 billion, in addition to funding reductions for Obama's health care law.

Democrats – especially those in the Senate – are generally opposed to such steep cuts. With both sides not willing to cede much ground, achieving a long-term solution continues to be challenging, and a 7th continuing resolution may ultimately be necessary to allow more time for discussions.

[DOE Requests Public Comment on Its Quadrennial Technology Review of Energy Technology Policies and Programs](#)

The U.S. Department of Energy (DOE) has announced a request for public comment on a Quadrennial Technology Review (DOE-QTR) of its energy technology policies and programs. DOE is engaging stakeholders on this review through its DOE-QTR Framing Document.

The Framing Document addresses several areas of interest for ASHRAE and the building industry, including: Building and Industrial Efficiency (section 6.2.1 of the Framing Document), Efficiency in Buildings (6.2.1.1), Whole Building Design (6.2.1.1.1), Energy Management Systems (6.2.1.1.2), HVAC and Water Heating (6.2.1.1.3), Lighting (6.2.1.1.4), Building Envelope and Windows (6.2.1.1.5), and Modernize the Grid (6.2.2).

ASHRAE plans to submit comments and is currently collecting input from our technical and other committees.

For additional information on the DOE-QTR, including the Framing Document and the request for comment in the *Federal Register*, visit <http://www.energy.gov/qtr/>.

Comments are due to DOE on or before April 15, 2011.

[DOE Helps Launch the Multi-Agency i6 Green Challenge for Commercialization](#)

The U.S. Department of Energy (DOE) joined with the U.S. Commerce Department's Economic Development Administration and its Office of Innovation and Entrepreneurship on March 10 to kickoff the \$12 million i6 Green Challenge. The funding will support the six regional teams with the most innovative ideas to drive technology commercialization and entrepreneurship in support of a vibrant clean economy. The i6 Green Challenge aims to promote collaboration within each region by encouraging and rewarding innovative Proof-of-Concept Centers, which accelerate technology commercialization by assisting entrepreneurs and existing companies. The proposed centers should help to solve problems that impede the technology commercialization process within a given region.

DOE will invest up to \$2 million in the i6 Green Challenge to support innovations in the areas of renewable energy, energy efficiency, or green building technology. The partnership will also include the U.S. Department of Agriculture, the U.S. Environmental Protection Agency, the National Science Foundation, and the Commerce Department's National Institute of Standards and Technology, and the U.S. Patent and Trademark Office. Letters of intent are due by May 2, and the deadline to submit a full application is May 26.

For additional information, see the DOE press release at <http://www.energy.gov/news/10169.htm>, the federal funding opportunity announcement at <http://www.eda.gov/PDF/i6GreenFFO.pdf>, and the i6 Green Challenge Website at <http://www.eda.gov/i6>.

[ASHRAE Submits Letter to California State Assembly in Support of the IGCC](#)

Recently, ASHRAE submitted a letter to California State Assembly Member Jose Solorio and other members of the Assembly requesting that the International Green Construction Code (IGCC) be referenced in Assembly Bill 275 – the Rainwater Capture Act of 2011 – and to allow jurisdictions to choose for themselves which code to adopt.

ANSI/ASHRAE/USGBC/IES Standard 189.1 *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings* serves as a jurisdictional compliance option of the IGCC.

The Rainwater Capture Act is designed to help California address the state's water crisis by increasing the efficient capture and use of water. As ASHRAE's letter notes, the IGCC will aid in this effort by helping to protect California's water supply, provide tank safety and durability, and prevent infestation from rodents, as well as provide guidance that is not currently covered by the California Plumbing Code for rainwater reuse – especially for water reclamation on rooftops and parking/driving surfaces.

A hearing on AB 275 was scheduled for Tuesday, March 22, but was postponed until Tuesday, April 5.

If you would like a copy of ASHRAE's letter, please contact Mark Ames, ASHRAE Manager of Government Affairs at ma-mes@ashrae.org, or visit [/advocacy](#).

[ASHRAE Meets with Senate Democratic and Republican Staff to Discuss Upcoming Energy Bills](#)

Several Senators are slowly drafting new energy efficiency legislation, and ASHRAE Washington, DC Office staff were recently invited by Senate Democratic and Republican staff to meet and discuss the buildings provisions of energy bills from the last Congress and draft legislation currently being worked on.

Among the Senators drafting energy legislation are: Jeff Bingaman (D-NM), Richard Lugar (R-IN), Lisa Murkowski (R-AK), and Jeanne Shaheen (D-NH).

Specifics of the various bills have not yet been determined, and while the bills that will be introduced and possibly passed will likely bear some semblance to those introduced in the last Congress, because the political landscape of Congress has changed considerably, some significant differences can be expected.

High-Performance Building Caucus Holds Congressional Briefing on Retro-commissioning

The High-Performance Building Congressional Caucus Coalition (HPBCCC) held a briefing for Congressional staff, stakeholders, and the general public on Capitol Hill on Tuesday, March 15 entitled “Energy Saving Through Retro-commissioning”.

The briefing provided attendees with an introduction to retro-commissioning, and informed attendees of how the process of retro-commissioning can help building owners realize untapped savings potential, create a high return-on-investment, and improve building performance.

For additional information, including the three PowerPoint presentations that were given, visit <http://www.hpbcc.org/03152011.php>.

DOE Fellowships to Support the Next Generation of Clean Energy Innovators

The U.S. Department of Energy (DOE) announced on March 10 the launch of two new fellowship programs designed to attract the best and brightest scientific minds in the United States to work on advanced renewable energy and energy efficiency technologies. The programs—the Postdoctoral Fellowships Program and the SunShot Initiative Fellowships Program—will prepare scientists and engineers for careers in clean energy. These programs will increase U.S. economic competitiveness and support job growth by promoting science, technology, engineering, and math education.

Under the Office of Energy Efficiency and Renewable Energy (EERE) Postdoctoral Fellowships Program, DOE is seeking up to 20 post-doctoral fellows whose academic careers have focused on the following technology areas: building efficiency, industrial efficiency, advanced vehicles, fuel cells, wind or water power, or biomass, geothermal, or solar energy. The new program will support research and development of breakthrough technologies over a two-year period. Selected fellows will be encouraged to pursue innovative, independent new projects in addition to the specific research project area selected by the fellow when applying to the program.

Applications for EERE Postdoctoral Fellowships are due on June 30. Fellowships will begin by mid-November and will last up to two years. For additional information, see the EERE Postdoctoral Fellowship Program Website at http://www1.eere.energy.gov/education/postdoctoral_fellowships/.

The SunShot Initiative Fellowships Program will select either recent Masters or Ph.D. graduates to focus on critical technology innovations that will advance the SunShot goal of a 75% reduction in the total cost of solar energy systems by the end of the decade. Those selected will aggressively drive innovations in the ways that solar systems are conceived, designed, manufactured, and installed. They will work at DOE's Solar Energy Technologies Program headquarters in Washington, DC, and will help develop new research and development programs to achieve the cost-cutting goal. For more information, see the DOE press release at <http://www.energy.gov/news/10167.htm>, the SunShot Initiative Fellowship Program Website at http://www1.eere.energy.gov/education/stp_fellowships.html, and the SunShot Initiative Website at <http://www1.eere.energy.gov/solar/SunShot/>.



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



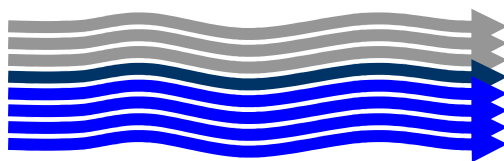
Job Postings & Help Wanted



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	645	520	325	0	110	1600



Society News: ASHRAE Guideline Addresses Interactions Affecting Indoor Environmental Quality

ATLANTA – ASHRAE has published a new guideline that provides guidance on achieving good indoor environments by considering the interactions of air quality and thermal conditions, as well as lighting and acoustics. Guideline 10 is especially important in the design of low-energy buildings in order to ensure full consideration of indoor environmental quality and its effects on occupants.

ASHRAE Guideline 10-2011, Interactions Affecting the Achievement of Acceptable Indoor Environments, calls attention to many interactions that designers might not have previously recognized or understood. The guideline contains an assembly of available knowledge on the complexity of the indoor environment and its impact on building occupants.

“The guideline summarizes what research

and experience have taught us about the complex interplay of the wide range of factors that determine occupants’ reactions to the buildings they inhabit,” Hal Levin, chair of the committee writing the guideline, said.

Levin explains that the guideline is intended to help users understand and use existing documents that deal with indoor environments, including the ASHRAE standards related to energy, ventilation, indoor air quality and thermal conditions with a more complete understanding of their combined effects on occupants.

“It can provide assistance to building design professionals and building operators by making them aware of the major interactions that have the potential to impact the indoor environment,” he said. “We believe the guideline will help draw attention to the narrowly-defined scopes of the widely-used standards

and the significance of combined or interactive effects in determining the acceptability of an indoor environment.”

The cost of Guideline 10-2011, Interactions Affecting the Achievement of Acceptable Indoor Environments, is \$54 (\$46, ASHRAE members). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit www.ashrae.org/bookstore.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE 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

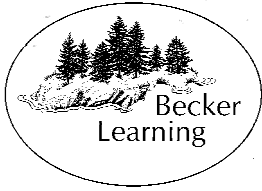
The ASHRAE Chapter Bulletin should reflect the opinions, activities and needs of it’s members. We represent an active membership and the Bulletin can provide a valuable and enjoyable forum for news of our individual members.

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.





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)

[] 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"/> 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.

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:

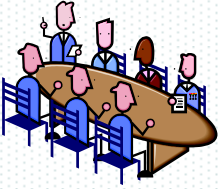
Similar to the way Joe taught nine classes in the Graduate Training Program of The Trane Company, students will learn a concept and then immediately apply this new knowledge with an application problem. Quiz/testing will also be used to measure the overall effectiveness of the teaching. In this way,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



**AMERICAN SOCIETY OF HEATING, REFRIGERATING
AND AIR CONDITIONING ENGINEERS**

ROCHESTER N.Y. CHAPTER

BOARD OF GOVERNORS MEETING MINUTES

Meeting Date: 3/10/2011

President	Jim Browe	X
President Elect/Program	Jeff Ellis	X
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	
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	
Picnic	Ed Burns	
Nominating	Joe VanCura	X
Valentine's Dinner Dance	Jody M. McGarry	X
CTTC Chair	Jeff Davis	
YEA	Jaimee Reynolds	X
BSUG	Bill Bishop	X



Roll Call: The above noted individuals were present.

Call to Order: 12:05pm

Minutes: BOG Meeting Minutes were accepted.

Treasurer's Report: Ed Burns
No Report.

Technology Transfer: Jeff Davis
No Report.

Program/Tech Session: Jeff Ellis / Michelle Sommerman
Gordon Holness is flying in Sunday night.
Chapter is covering his expenses.
Refrigeration tour is set up.
Dinner is at 6:00
Tour is at 7:30
Picnic is the last remaining event for the year.
Chapter will cover the cost of Lynn Bellenger's meal.

Membership: Phil Masters
240 current members (count reported in previous meetings was incorrect).
No new members this month.

Attendance: Tim Duprey
March
63 RSVP's.
February
Some people that paid with PayPal did not show.
Mario's is making approximately 10 extra meals each meeting.
In the future, food will be ready at check in to expedite food lines.

Student Activities/Awards: Al Rodgers
No Report from Al Rodgers.
Phil Masters checked with the RIT Financial Aid department and department head with regard to the scholarship.
The chapter will issue a 1099 with the scholarship check to the student to avoid liability to the chapter.
Jeff Ellis and Phil Masters will have additional scholarship information by last meeting.

YEA: Jaimee Reynolds / Eric Smith
YEA is having a happy hour every Friday.
Tour of the University of Rochester Chiller, Cogen, and Boiler plant is scheduled.
15 RSVPs to date.
May is Mini-Golf.
YEA requests an announcement on Picnic announcement.
April 1st is YEA Weekend in Denver.
Chris L. and Matt K. are attending.



Research: Jeff Close
No Report.

Refrigeration: Mike Nohle
No Report.

Newsletter: Christina Walter
- This month's articles are due 3/25/11.

Buyers Guide: Chuck White
Website work has been started by Kevin Wind.

Historian: Lee Lomis
No Report.

Website:
No report.

Nominating: Joe VanCura
Nominees are as follows:
Bill Murray
Jeff Close
Chris Walter

Valentines Dinner Dance: Jody McGarry
\$305.52 net income after payments that we are waiting to receive.

Job Posting and Resumes:
Committee will meet soon
Committee members are Al Rodgers, Chris Walter and Jeff Ellis.

BSUG: Bill Bishop
Approximately 10 people attending meetings.
Functions as an energy modeling users group.
Each meeting someone presents about modeling
Members volunteer to host meetings.

Association of Energy Engineers:
2 PDHs available.
Energy related tabletops
\$25 for lunch and tabletop.
\$40 for PDHs

The Next BOG Meeting is at 12:00 PM on 4/8 at R.F. Peck Company

The meeting was adjourned @ 1:20pm

