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FEBRUARY 6, 2008

ASHRAE Monthly Meeting info:

When: Monday, February 11, 2008. Time: 5:30 PM Sign In 5:45 PM <u>Buffet Dinner in the Weg-</u>

mans Cafe

6:30 Tech Presentation 7:00—8:00 Store Tour

Where: Wegmans, 3701 Mt. Read Blvd. Cost: \$20.00 for dinner and **RSVP**: Please RSVP via email by 4:00 P.M. on Friday, Feb 8th to Phil Masters at philm@rpfedder.com.

Questions call 585-288-1600

program.

x 117.

Tech Session: Power Point presentation of Wegmans new state of the art refrigeration system, by Paul Tesch of Postler & Jaeckle.

Tour: This tour will look at Dx and secondary refrigeration systems and how they are being implemented in the supermarket industry. It will feature how Wegmans Food Markets utilizes secondary coolant as a secondary refrigeration system to keep the "cabbage" cold. The tour will include a walkthrough the rooftop powerhouse to observe the refrigeration racks and control system.



Chapter Officers Board of Governors

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Webmaster Kevin Wind kwind@rochester.rr.com



ASHRAE 2007/2008 MEETING SCHEDULE

DATE	EVENT	LOCATION	SCHEDULE	
2/9/2008	Valentine's Dinner / Dance.	Lodge at Woodcliff	6:30 PM Reception 8:00 PM Dinner 9:15 PM Dessert	
2/11/2008 Membership Night Refrigeration Tour	Refrigeration Night—Will feature a tour of the new Weg- mans Mt Read Blvd. location. Dinner will be in the Weg- mans Café.	Wegmans Mt Read Blvd 3701 Mt. Read Blvd.	5:30 PM Sign-In 5:45 PM Buffet Dinner 6:30 PM Tech Preso 7:00-8:00 Store Tour	
3/17/2008 Joint Meeting	Topic: "Sustainability". Sustainable / Green Building. USGBC/Niagara Chapter—Rochester and Buffalo Tentatively presented by sitting ASHRAE President Kent Peterson .	Batavia, NY	5:30 PM Tech Session Dinner 7:00 PM Main Speaker	
4/16/2008	ASHRAE Satellite Broadcast Luncheon. Topic: "Integrated Building Design".	Bathtub Billy's	12:00 PM Lunch, 1:00-4:00 PM Program	
5/20/2008	Annual ASHRAE Golf Outing and Picnic	Ravenwood Golf Club Bergundy Basin Inn	8:00 AM Golf 2:00 PM Picnic 6:45 PM Dinner	

<u>New ASHRAE Members</u> Paul Tesch - Postler & Jaeckle Corp Craig Avalone – Clough Harbour Andrew Smith – JC Mottinger John Soldi – Johnson Controls

Mission Statement

ASHRAE will advance the arts and sciences of heating, ventilation, air conditioning, refrigeration and related human factors to serve the evolving needs of the public and ASHRAE members.



"Advancing HVAC&R to serve humanity and promote a sustainable world"

Vision Statement

- will be the global leader in the arts and sciences of heating, ventilation, air conditioning and refrigeration.

- will be the foremost, authoritative, timely and responsive source of technical and educational information, standards and guidelines.

- will be the primary provider of opportunity for professional growth, recognizing and adapting to changing demographics, and embracing diversity.

President's Message by Casey Bernhard:



In January I will have attended the International Air-Conditioning, Heating and Refrigeration Exposition (AHR Expo) in New York City for the first time. I'm excited about the Expo and hope to learn as much as possible. Whether you are going to the AHR Expo or not ASHRAE offers many educational opportunities. If you aren't aware of all of the educational programs offered by ASH-RAE the following is a quick review of all that is available to you:

ASHRAE Self-Directed Learning Courses

You are provided with hard copy course materials that contain skill development exercises and detailed instruction for course completion. Study topics include Steam System Design, Air System Design, Heating and Cooling Loads, Heating Systems, Psychrometrics, Refrigeration, Thermodynamics, and Water System Design. You can work at your own pace, sending in your exercises which are returned with solutions and earning CEU's.

ASHRAE eLearning

This is an on-line learning system that allows you to work at your own pace; studying different topics from anywhere you have a connection to the internet and earning CEU's. Some topics include Fundamentals of HVAC Systems, Fundamentals of ASHRAE Standard 90.1, Thermal Comfort, Ventilation and IAQ, Central Plants, Controls, Hydronic System Architecture, Energy Conservation Measures, and Special Applications.

ASHRAE Learning Institute On-Line Seminars

On-line seminars are "real time" instructor led seminars. These seminars are provided at a specific date and time and accessed through the internet. These courses are not recorded and topics vary per season. CEU's are also provided with these seminars. Some topics for this fall were Natural Ventilation, Humidity Control, Understanding and Designing Dedicated Outdoor Air Systems, Intro to BACnet, and Introduction to Green Buildings and Sustainable Construction.

ASHRAE In-Company Seminars

ASHRAE Learning Institute provides one and two day seminars at your location. Training is provided by an instructor or team of instructors from ASHRAE.

Local ASHRAE Chapter Meetings

It is our goal to provide you with relevant topics that the membership has indicated to be of interest in the yearly topic survey. We have been doing our best to provide programs that are also approved for CEU's in New York State for professional licensing requirements. Typical meetings include both a technical session and main dinner program topic. Please refer to our attached meeting schedule for the remaining meetings this year. Also, please note that our local chapter website has been updated with our meeting schedule and other information. Check it out at <u>http://rochester.ashraechapters.org/</u>

You can read about society level ASHRAE education opportunities for yourself at <u>http://</u> <u>www.ashrae.org/</u> by clicking on "Education" in the menu bar across the top of the page. I look forward to seeing you at our next meeting.

Casey Bernhard, PE 2007-2008 President



ASHRAE's 51st Annual Valentine's Dinner Dance

Saturday, February 9, 2008 The Lodge at Woodcliff Woodcliff Drive, Fairport, NY (Horizon Hill Rte. 96 & 490)



Live music and a superb meal will chase away the "Winter Blues". For your convenience we have valet parking.

6:30 pm Reception—Hors 'Doeuvres 8:00 pm Dinner—as you selected 9:15 pm Dessert and Coffee

For reservations please mail or fax the registration form below. Please make checks payable to: Rochester Chapter ASHRAE, and mail to :

ABR Wholesalers, Inc., 510 North Goodman Street, Rochester, NY 14609, Attn: Jody Monaco-McGarry. (Phone: 585-482-3601, Fax: 585-482-6698).

Menu Selection:

- Roast Beef Tenderloin, grilled with a Cabernet demi glaze finish.
- Pan seared Lemon Chicken, Lemon, Dijon, Parsley Marinated Chicken with Smoked Tomato- Red Sauce Onion Confit, Sauce Ivory.
- Glazed Fillet of Herbed Baked Atlantic Salmon, in a Bristol Cream Sherry sauce topped with Soy Glazed Pecans.
- Vegetarian Delight of your choice.

Meal Selection—Please circle one:

 1. Name:
 Beef—Chicken—Salmon—Vegetarian

 2. Name:
 Beef—Chicken—Salmon—Vegetarian

Number of people _____ x \$50.00 per person = _____ (enclosed)



Jody Monaco McGarry, 2007-2008 Valentine Dance Committee Chair

Governmental Affairs Update

Welcome to ASHRAE's Government Affairs Update. Along with the Government Affairs webpage, these periodic email 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 (<u>http://www.ashrae.org/advocacy</u>).

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 <u>washdc@ashrae.org</u>.

ASHRAE Government Affairs Update, 1/25/08

- Energy Efficiency in New Federal Buildings to Increase by 30%
- Most DOE-EERE Programs See Increased Funding
- Building Community Launches Net Zero Energy Initiative
- Western Governors Push Energy-Efficient Building
- <u>CFL Sales Jump to 20% of the Market</u>
- U.S. Wind Power Capacity Surged Up 45% in 2007
- NIST Announces Available Grants

Energy Efficiency in New Federal Buildings to Increase by 30%

The U.S. Department of Energy has established regulations that require most new federal buildings to achieve at least 30% greater energy efficiency than that of the prevailing building codes. The new standards, which were published in late December, are also 40% more efficient than the standards in the current Code of Federal Regulations and will help federal agencies meet Executive Order #13423, which mandated increased federal energy efficiency. Over the next ten years, the standards could save more than 40 trillion Btu and reduce carbon dioxide emissions by 2 million metric tons. The new regulation updates an interim final rule that DOE issued on December 4, 2006, and which applied to any federal building that entered the "design for construction" phase by January 3, 2007.

The new regulations took effect on January 22 and apply to new federal commercial buildings, multi-family high-rise residential buildings, and low-rise residential buildings. The standards aim to address energy efficiency by looking at a building's entire performance, instead of relying on prescriptive requirements for building components and systems. The high standards put forth in the new regulations will also encourage federal builders to use an integrated approach when constructing new buildings. See the DOE press release (<u>http://www.energy.gov/news/5790.htm</u>) and the final rule (<u>http://a257.g.akamaitech.net/7/257/2422/01jan20071800/edocket.access.gpo.gov/2007/pdf/E7-24615.pdf</u>).

Governmental Affairs Update (continued)

Most DOE-EERE Programs See Increased Funding

An appropriations act signed into law in December provides \$1.536 billion in direct support of the DOE Office of Energy Efficiency and Renewable Energy (EERE), a 4.2% increase over the funds that were provided through a continuing resolution in 2007. The bill also directs \$186 million toward congressional earmarks. A number of EERE programs will see significant increases under the appropriations bill, including hydrogen technology, which is up by 9% over its fiscal year (FY) 2007 funding; solar energy, which is up by 5.7%; geothermal technology, which is essentially quadrupled (but still slightly below its FY 2006 funding level); building technologies, which gained 4.4%; industrial technologies, which gained 11%; weatherization assistance grants, which gained 11%; and tribal energy activities, which increased by 50%.

In addition, the act provides more than \$26 million for facilities and infrastructure at DOE's National Renewable Energy Laboratory, including nearly \$5 million toward a new Energy Systems Integration Facility. And the act provides essentially level funding for biomass and biorefinery systems, wind energy, the Federal Energy Management Program, and the Renewable Energy Production Incentive. Only state and international programs suffer under the act, with a 25% cut in state energy funding and an elimination of funds for international activities.

Building Community Launches Net Zero Energy Initiative

The Commercial Building Initiative brings together government and industry groups working to make every building, new and old, carbon neutral by 2030.

Unveiled at a workshop last month in Washington, the CBI was founded by the American Society of Heating, Refrigerating, and Air-Conditioning Engineers; the American Institute of Architects; the United States Green Building Council; the World Business Council for Sustainable Development; the U.S. Department of Energy; Lawrence Berkeley National Laboratory; and the Alliance to Save Energy. Together, these groups will plan, coordinate, and implement strategies that will completely overhaul how commercial buildings use energy in coming decades.

Because buildings in the U.S. are responsible for 70 percent of total energy use, as well as 40 percent each of total energy use and greenhouse gas emissions, improving building performance has become a key environmental strategy. The CBI was launched to leapfrog past current building energy efficiency programs, which the group says have made important progress, but which often comes in fits and starts.

Instead, through its comprehensive strategies of technological and policy innovation, the group believes it can make zero net energy buildings a widespread and affordable reality. These buildings use 50 to 70 percent less energy than comparable traditional buildings, and the remaining energy use comes from renewable sources, like solar panels or wind turbines incorporated into the facility itself.

More information about the Commercial Building Initiative is available at http://buildings.lbl.gov/cbi.

Western Governors Push Energy-Efficient Building

The Western Governors' Association recommended policies and best practices for energy-efficient building that could dramatically reduce the demand for energy and water, while providing a boost to the region's economy.

The recommendations included in the WGA report, "Building an Energy-Efficient Future," were developed by stakeholders participating in a workshop held last year. Participants included representatives of building industries, utilities, public interest groups, all levels of government and energy service companies.

Workshop participants delivered to the governors a comprehensive set of recommendations that will help the region achieve a 30 percent improvement over current International Energy Conservation Codes. Experts in the field advised the governors that implementing "best practices" over the next 15 years could reduce the need to construct new generating facilities in the West by 48,000 megawatts, save 1.8 trillion gallons of water and create a net regional economic gain of \$53 billion.

(continued on page 8)

Governmental Affairs Update

The report focuses on energy efficiency measures with the greatest potential to cost-effectively generate energy savings. They include information and education, stronger code performance, incentives for energy efficiency practices, removing impediments for utilities to aggressively promote efficiency and conservation, and use of innovative financing programs.

The energy efficiency workshop was held as part of WGA's Clean and Diversified Energy Initiative. WGA leads for that initiative are Govs. Dave Freudenthal (Wy.), Bill Richardson (N.M.), Arnold Schwarzenegger (Calif.) and John Hoeven (N.D.) For a copy of the full report and more information on the CDEi, visit the WGA Web site at www.westgov.org.

CFL Sales Jump to 20% of the Market

The sales of Energy Star-qualified compact fluorescent lights (CFLs) nearly doubled last year, according to the estimates of the Environmental Protection Agency (EPA). In 2007, 290 million CFLs were sold, and the energy-saving bulbs now account for about 20% of the light bulb market in the United States. Energy Star-qualified CFLs use approximately 75% less energy and last up to 10 times longer than traditional incandescent bulbs.

The sale of CFLs has been on the rise since 2006, when their market share jumped from 5% to almost 11%. Energy Star retail partners have played an important role in educating consumers about the importance of saving energy and the value of these products. DOE and EPA also worked to promote the sales of CFLs throughout 2007 with their "Change a Light, Change the World" campaign, which encourages people across the United States to sign a pledge to change at least one bulb in their house to an Energy Star-qualified CFL. The campaign has gathered over 1 million pledges so far. See the DOE press release (http://www.energy.gov/news/5825.htm) and the Energy Star Web site (http://www.energystar.gov/index.cfm?c=lighting.pr_lighting).

U.S. Wind Power Capacity Surged Up 45% in 2007

The U.S. wind energy industry installed 5,244 megawatts (MW) of wind power capacity in 2007, according to the American Wind Energy Association (AWEA). The rapid growth shatters all previous records and boosts the total U.S. wind power capacity by 45% in only one year. The growth even exceeded AWEA's expectations for 4,000 MW of new capacity, a prediction made just two months ago. In fact, wind power provided 30% of the new generating capacity installed in the United States in 2007. The total U.S. wind power capacity is now at 16,818 MW, with wind projects located in 34 states. AWEA estimates that in 2008, U.S. wind power facilities will generate 48 billion kilowatt-hours of electricity, or about 1% of the nation's electricity needs. AWEA expects similar capacity growth in 2008, although factors such as the availability of new wind turbines could have an impact on growth. The trade association tallies 3,520 MW of new wind power capacity currently under construction.

Texas leads the states in terms of new wind power capacity installed in 2007, with 1,618 MW of new capacity, further cementing the state's lead in total installed wind power capacity. AWEA also estimates that at least 14 new wind power manufacturing facilities either opened or were announced in 2007. See the AWEA press release (<u>http://www.awea.org/newsroom/releases/AWEA_Market_Release_Q4_011708.html</u>).

NIST Announces Available Grants

The National Institute of Standards and Technology (NIST) announces the solicitation of applications for financial assistance for FY 2008 for the Building Research Grants and Cooperative Agreements Program. The program will provide grants and cooperative agreements in the following fields of research: Structures, Construction Metrology and Automation, Inorganic Materials, Polymeric Materials, HVAC & R Equipment Performance, Mechanical Systems and Controls, Heat Transfer and Alternative Energy Systems, Computer Integrated Building Processes, and Indoor Air Quality and Ventilation. Applications will be considered on a continuing basis. For complete information about this program and instructions for applying by paper or electronically, read the Federal Funding Opportunity (FFO) Notice at http://www.grants.gov.

Nominating Committee News



The 2008/2009 nominating committee consisting of past Chapter President's Mark Kukla, Al Rodgers, Steve Maybeck, Kevin Gottermeier and chaired by Barb Herl held their first meeting on January 11th. The purpose of the Nominating Committee is to identify candidates from the Chapter membership for officer and Board of Governor positions and prepare a list of nominees to submit to the chapter members for election. The 2008/2009 chapter year starts on July 1, 2008 and ends June 30, 2009.

The positions that we are seeking candidates for are Treasurer, and two (2) Board of Governor positions. The Treasurer's position typically serves as the first step in the progression to the President's position followed by Secretary, Vice-President and President Elect. The President-Elect automatically succeeds to the office of the President

Historically, Rochester Chapter has had six (6) Board members in addition to those serving as officers. The Board of Governors (BOG) are elected to serve one-year terms, but may be re-elected to consecutive terms. The normal term for a BOG position in the Rochester Chapter is three years. As a Board member, you are expected to attend monthly board meetings, and help manage and conduct the affairs of the chapter. Often Board members serve as the chairman of a chapter's committees or provide assistance in the planning of special events.

If you are interested in being considered a candidate for the Treasurer's position, or for a Board of Governor's position, and have not already been contacted by the nominating committee, you are encouraged to contact any one of the above Nominating Committee members by March 10th, 2008. At the March 17th Chapter meeting, the nominations will be presented to the floor and at that time, any member present with voting rights may nominate individuals from the floor. Following the meeting an election ballot will be prepared and sent to all voting members of the chapter. The election results will be announced at the April 16th meeting and the new officers and Board members will be installed at the May 20th ASHRAE picnic.

Submitted by Barb Herl Chair Nominating Committee





Your technical training provider presents

Air Conditioning Fundamentals 2008

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

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

Comments from past attendees:

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

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

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

Andrew Davin - Mechanical Designer - Rochester, NY

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

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

1. [] Feb 12-14 'Systems Fundamentals- I' (HVAC Systems, Ice Storage, Heat Recovery, etc...)

2. [] Mar 11-13 'Refrigeration Fundamentals' (Refrig Basics, Refrig Piping, Refrig & Our Environment)

3. [] Apr 8-10 'Energy Efficient Design Fundamentals' (Chilled Wtr, DX, VAV, Dehumidification)

4. [] Sep 9-11 'Product Fundamentals' (Coil, AHU, FanCoils, UVs, WSHP, RTU, Chillers, Compressor Technologies)

5. [] Oct 7-9 'Airside Fundamentals- I' (Load Design and Psychrometrics)

6. [] Nov 18-20 'Airside Fundamentals- II' (Duct Design, Fans & Fan Laws, Acoustics and IAQ)

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

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

More Details for 3- day courses:

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

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

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

Travel: Arrival: Since the seminar starts at 8:00 a.m., plan to arrive the night before.

Departure: You can book flights out of Rochester International Airport after 6:00 p.m. on Thursday since our Henrietta, NY location is less than 10-minutes from the airport.

Registration: Please fill out this form for each person attending, and mail along with a Check or Purchase Order (made out to 'Becker Learning') to: Becker Learning / 5980 Sheppard Road / Dansville, NY 14437							
2008 Courses:	1. [] Systems	2. [] Refrigeration	3. [] Energy Eff. Design				
(check all that apply)	4. [] Product	5. [] Airside-I	6. [] Airside-II				
Name:		Title:					
Company:							
Address:							
Phone:	E	mail:					

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

Authorizing Person

Printed Name		Signature	Date		

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

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

Teaching Methodology:

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

About the Instructor:

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

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

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



American Society of Plumbing Engineers

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Vice President Technical: TERRY BROWN, CPD M/E Engineering, PC 150 North Chestnut Street Rochester, NY 14604 585-288-5590

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Affiliate Liaison: FRED SCHREINER Buckpitt & Company 88 University Ave Rochester, NY 14605 585-454-7474



Rochester, NY Chapter

President's Message

Happy New Year to everyone.

ASPE is starting off the New Year with January and February lunch presentations available with .pdh credits. Hopefully this offering will be able to help out both ASPE members as well as non-members. As always, our monthly technical lunch meetings are open to anyone who is interested. Time/date/location are all listed below. Please just contact me for reservations if you are interested. Check payable to ASPE, or cash is collected at the door. If you are interested in the topic and need .pdh credits, we'd love to see you at our meetings.

Look for upcoming announcements for our April meeting. We are planning a factory tour at High Falls Brewery.

Jennifer Wengender, P.E.

Rochester Chapter President

	Meeting Notice
Topic:	"Fire Pump Systems – NFPA 20" presented by William Cook, Frank P. Langley Co.
Credits:	1.0 pdh
Date:	Wednesday, February 20, 2008
Time:	11:45 a.m. – 2:00 p.m. (please plan on being seated by noon)
Place:	Calabria's, Pixley Road off Buffalo Road
Cost:	\$18 member or non-member
RSVP:	by 2/11/08 to Jennifer Wengender, PE
	Clark Patterson Lee
	(585)454-4570 X1094

<u>SEMINAR</u> Understanding LEED® Projects from Design to Construction

Presenters:

Alex Strasenburgh, PE, LEED₀ AP, Pathfinder Engineers LLP - Alex will be presenting on LEED₀ from an Engineering standpoint and why LEED₀ building construction is a benefit to the end user/customer

Steve Beck, LEED_®, AP, LeChase Construction - Steve will be presenting on LEED_® from a Construction standpoint; to educate contractors on what they will need to do to ensure the LEED_® Project they work on is completed with LEED_® compliancy.

This Seminar is the first of a multi part training program series to be held by the JBX in 2008.



Date: 2.28.2008

Time: 8:30am to 1:00pm

Location: Midvale CC

Cost: \$30 per person

(includes breakfast & lunch)

Please RSVP by 2.15.2008

Contact person:

jill Modzel—jill.modzel@robex.com

585.586.5460

Please make checks payable to:

The JBX

180 Linden Oaks

Rochester, New York 14625-2837





Wednesday, March 5, 2008 at the David L. Lawrence Convention Center, Pittsburgh PA



The Premier Conference on Green Building for the Mid-Atlantic & Ohio Valley Region

GreenSense 2008: Capture Your Share of the Green Market

The exploding market demand for green building crossed a new threshold in 2007. The number and types of green buildings in the United States proliferated, with every structure from hospitals to university campuses, K-12 schools, historic properties and sporting venues going green. Against a backdrop of growing concerns for achieving energy independence and controlling CO2 emissions, developers and architects found customers clamoring for green features and benefits. Learn how to be competitive in this rapidly expanding market and what it means for you and your business at Green\$ense 2008.

KEYNOTE SPEAKERS:



Rick Fedrizzi As the President, **CEO** and Founding Chairman of the United States Green Building Council, (USGBC) Rick Fedrizzi is at the helm of what is arguably the hottest and most influential non-profit organization advancing green buildings and communities in the United States. With new worldwide requests for assistance from Dubai to India, the USGBC continues to drive awareness and change in the built environment on a global basis.



John Knott John Knott is the President and CEO of the Noisette Company, which has created a progressive public/ private development plan for North Charleston, SC.This award-winning integrative plan seeks to preserve historic architectural styles, neighborhood diversity and the unique social fabric of the city. The site is being restored as a sustainable community modeled on the belief that cities must be equally responsive to social needs, environmental responsibility and economic vitality.

Explore the financial benefits and best business practices related to green building

Presented by Green Building Alliance*

Register Sign up by February 20 and Save!

STEP 1: CONTAC	T INFORMATION		STEP 2:	CONFERENCE REGISTE	ATION	N / PA	YMEN	T
					GBA N	/lember	Non-M	e
			No. of Registrants	Green\$ense Activity	Early	After 2/20	Early	
Last Name	First Name	Credentials		Full Conference & Tour Bundle	\$200		L Ó	Ī
Title	Badge Name			Opening Plenary All Conference Sessions Awards Luncheon				
Organization				• Green Development Tour • Exhibits				
Address				Full Conference Only Opening Plenary All Conference Sessions 	\$175	\$225	\$250	
City	State/Province			 Awards Luncheon Exhibits 				
Zip/Postal Code	Country			Tour Only • Green Development Tour • Exhibits	\$20	\$25	\$25	
Phone	Fax			Awards Luncheon Only • Awards Luncheon • Exhibits	\$40	\$50	\$50	
Email (Registratio	on confirmation will be emailed)							
				TOTAL CONFER		REGIST	RATIO	N
REGISTRATION P	ION			now to enjoy the discounte ams throughout the year. For .gbapgh.org/Membership_				
Center Hotel, 100	ooms has been reserved at the West)0 Penn Avenue, in downtown Pitts d request the discounted room rate	burgh. Call	□ \$1000 Cham	\$500	\$250 Patron		\$100 Stewar	c

REGISTRATION POLICIES

- Registration confirmations will be emailed.
- Discounts for early registration end at close of business (EST) Feb. 20, 2008.
- Payment information must accompany each registration form.

Green\$ense Conference NO LATER THAN FEBRUARY 20, 2008.

- Only individuals who are registered and have a badge may attend conference events.
- Substitutions are permitted. However, you must email the contact information for both the substitute attendee and the original attendee to karenp@gbapgh.org at least 48 hours prior to the start of the conference.

REGISTRATION CANCELLATION POLICIES

- Refunds will only be issued for cancellations made in writing prior to Feb. 27, 2008. No exceptions.
- Cancellations received prior to Feb 27, 2008 will be issued a full refund LESS a \$50 administrative fee.
- Refunds will be processed six to eight weeks after the conference.

QUESTIONS AND INFORMATION?

Contact Karen Puff at the Green Building Alliance at karenp@gbapgh.org or 412-431-0709.

STEP 2:			17 PA						
	GBA Member Non-Me								
No. of Registrants	Green\$ense Activity	Early	After 2/20	Early	After 2/20	Amount Due			
	Full Conference & Tour Bundle • Opening Plenary • All Conference Sessions • Awards Luncheon • Green Development Tour • Exhibits	\$200	\$250	\$275	\$300	\$			
	Full Conference Only • Opening Plenary • All Conference Sessions • Awards Luncheon • Exhibits	\$175	\$225	\$250	\$275	\$			
	Tour Only • Green Development Tour • Exhibits	\$20	\$25	\$25	\$30	\$			
	Awards Luncheon Only • Awards Luncheon • Exhibits	\$40	\$50	\$50	\$55	\$			
	TOTAL CONFERENCE REGISTRATION FEE \$								
for progra visit www \$1000 Cham (Corpo \$100 Public	Public Sector Advocate Student Nonprofit (Individual) (Individual) (c								
		G	RAND	TOTAL	DUE	\$			
🗌 Visa	□ Visa □ MasterCard □ AMEX □ Check								
Credit Ca	Credit Card Number Exp. Date								
ZIP Code	ZIP Code at which credit card billing statement is received.								
STEP 3:	SEND	STEP 3: SEND							

Conference information and a downloadable registration form are available at www.gbapgh.org/Green\$ense2008.asp.

Fax to: 412.431.1432

Mail to: Green\$ense 2008 Registration c/o Green Building Alliance 64 South 14th Street Pittsburgh, PA 15203



INTRODUCTION TO MODERN

HYDRONICS AND RADIANT

HEATING SYSTEMS SEMINAR

Sponsored by the Frank P. Langley Co., Inc. Presented by Roy Ahlgren ITT Fluid Handling Director of Little Red School House

FRIDAY MARCH 7, 2008 8:00 AM - 4:00 PM ROCHESTER, NEW YORK

- 1. Fundamentals of Hydronics
 - Why Hydronics?
 - Important Definitions
 - System Components
 - The Design Process
- 2. Example Problem: Series Loop Baseboard System
 - Six Step Design Process
 - Applying Rules of Thumb for Small Systems
- 3. Air Management in Hydronic Systems
 - Role of the Compression Tank
 - Air Separation
 - System Pressurization
 - Installation Details
- 4. The Bell and Gossett System Syzer®
 - How to Make Better Design Decisions

- 5. Radiant Panel Systems
 - The Design Process: Example Problem
 - Panel Design More Definitions Important Decisions How to Handle System Limitations Supplemental Heat Special Components
- 6. Zoning with Primary-Secondary Pumping
 - Fundamentals of Primary-Secondary Pumping
 - Piping Details
 - Providing Different Supply Temperatures

ATTENDEES REQUIRING CEU WILL RECEIVE .7 CEU CREDITS

WHO SHOULD ATTEND

Anyone who needs an increased knowledge of commercial hot water heating systems such as;

- Contractors
- Design Engineers
- Estimators

- Project Managers
- Maintenance Personnel
- Facility Engineers

Class Instructor:

Roy Ahlgren - Director of ITT Fluid Handling's Training & Education Department, is a graduate of the U.S. Naval Academy with a degree in Naval Science, and the Illinois Institute of Technology, with a Master's Degree in Management. Roy was a Navy Training Specialist and served as Executive Officer of the Recruit Training Command, "boot camp," at Great Lakes and NROTC unit at Northwestern University prior to joining ITT. He has taught at the ITT Bell & Gossett "Little Red Schoolhouse" in Morton Grove, Illinois since 1985. He is a past Chairman of the ASHRAE Technical Committee on Hydronic and Steam Systems and Equipment and is active in the Chicago Chapter of ASPE and the Chicago Area Runner's Association. Roy has written many articles for ASHRA and ASPE magazines.

REGISTER NOW! SEATING IS LIMITED! FOR MORE INFORMATION CALL US OR VISIT OUR WEBSITE AT WWW.FPLCO.COM FRANK P. LANGLEY CO., INC. (585) 248-5010

REGISTRATION WILL BEGIN @ 7:30 AM, MARCH 7TH Location: Holiday Inn Airport 911 Brooks Avenue Rochester, New York 14624

COMPANY		
STREET ADDRESS		
CITY, STATE, ZIP		TELEPHONE
E-MAIL ADDRESS	(NEEDED FOR CONFIRMATION)	
ATTENDEES 1)		
2)		
3)		
4)		

REGISTRATION FEE \$65.00 PER ATTENDEE

PLEASE SEND CHECK BY FEBRUARY 28TH PAYABLE TO: FRANK P. LANGLEY CO., INC. MAIL TO: 219 CREEKSIDE DRIVE P.O. BOX 744 AMHERST, NEW YORK 14228-0744 PHONE: 716-691-7575 FAX: 716-691-7347

REGISTRATION FEE INCLUDES: CONTINENTAL BREAKFAST, LUNCH, REFRESHMENTS AND REFERENCE MATERIAL.

- I HAVE ENCLOSED A CHECK FOR \$_
- □ Charge to □ Visa □ MasterCard □ American Express

Name on Credit Card (please type or print)

Card No.

Expiration Date

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.



Associates. P.C.

LaBella Associates, P.C. is a fast growing engineering, architecture, planning and environmental consulting firm with three office locations in New York State. We are a multi-disciplined firm dedicated to client satisfaction through teamwork, respect, and trust.

We are currently looking to fill the following positions in our Rochester, NY office:

Mechanical Engineer: Junior Level (EIT): Bachelor's degree in Mechanical Engineering with a focus in HVAC. Will work with Senior Engineers to develop project designs, drawings and specifications. Will grow into working more independently on projects with in house training and mentoring programs. AutoCad experience required. Prior experience working at an A/E consulting firm desired.

Mechanical Engineer: Mid-Level (PE): Bachelor's degree in Mechanical Engineering with a focus in HVAC and Energy Projects. Will work independently and with other Engineers as part of a Project Team to develop concepts, strategies, designs, drawings, specifications and reports. Will be part of the project brainstorming, peer review, and QA/QC processes. AutoCad experience required. Minimum of five years of experience working at an A/E consulting firm preferred

If you are interested in any of these positions, please e-mail cover letter and resume to hr@labellapc.com. For additional information about our firm, please visit our website at www.labellapc.com



PRO-ENGINEERED INSPECTIONS

Warren Engineering, Rochester's leading home inspection firm, is seeking an engineer!

Are you an independent, ambitious, engineer seeking an escape from the office setting? Do you want a job that compensates you in direct proportion to the amount of work you perform? We will train you to perform home and building inspections as part of the Warren Engineering inspection team. You will also be able to perform noncompeting work for any of your own clients that you may develop, since you will be an independent, self-employed engineer.

Position requires good people and communication skills. Candidates must be dependable and able to work independently without direct supervision. P.E. license required (any discipline). A general knowledge of building construction is required, and direct experience in the building/construction industry is a plus.

Contact Lisa at 585-385-4766 or send resume to engineers@warreninspect.com

XEROX_®

Please apply on-line at: https://sjobs.brassring.com/1033/asp/tg/cim_jobdetail.asp? partnerid=194&siteid=80&AReq=4732BR

AutoReqId	4732BR
Common Job Title	HVAC/Plant Operations Technician
Primary Work Loca- tion	NY, Webster
Employee Classifi- cation:	Regular Full-Time
Job Description	 At Xerox, where business runs on fresh ideas, staying on the crest of digital technology demands originality, creativity, and ingenuity. That's why Xerox recruits exceptional people, whose professional talents are fueled by imagination. We've created a workplace where inventiveness flourishes, where employees are encouraged to express their vision, their ideas, and their leadership. Our products and technology represent the leading edge of the industry. They integrate technology, the web, business process, and the way people work in order to deliver to our customers the best document solutions. Position Summary: This position in the Xerox Site & Facilities Services group is for a technician in the HVAC/R field. The person will work with an Engineer to perform all varieties of work within the HVAC/R field. The person will work with an Engineer to perform all varieties of work within the HVAC/R trade, such as preventive maintenance, corrective maintenance and minor project work. The equipment serviced ranges from commercial to industrial in size and complexity and includes hot water and steam boilers, condensate returns, chillers and cooling towers, compressors (air and refrigeration), air handlers, Direct Digital Control, reverse osmosis and deionizers, water treatment, etc. Responsibilities: The successful candidate would be expected to work with the Engineer to perform all duties as required to maintain the equipment. Some heavy lifting and working in sometimes awkward positions may be required. Work Schedule: Staight days but candidates must be flexible to work rotating shifts in the future. Assisting Maintenance and Senior Maintenance Engineers with work assignments and supporting Watch Engineers as required.
Requirements:	The position requires, at minimum, an two year (AS or AAS) or certificate in HVAC/R from an accredited institution.
	Computer literacy: Microsoft XP and Office products.
	The successful candidate will be expected to become a member of the International Union of Operating Engineers IUOE Local 832s and, over time, to obtain a Universal Refrigerant license and a City of Rochester Steam-3 license.
	Drawing on diversity of a global workforce and offering an equal opportunity to achieve success. EOE M/F/D/V.

2007-2008 Presidential Award of Excellence Summary

Chapter #	Chapter Name	Chapter Mem- bers / Students		Student Activities		Chapter Technology Transfer	History	Chapter Operations	Chapter PAOE Totals
11	Rochester	218/13	50	100	130	360	225	200	1065

ATTEND A FREE ASHRAE WORKSHOP



Reduce Energy Use at Your Data Center by up to 75%

Energy usage by data centers in New York State is an estimated \$593 million annually. As a consequence, governmental agencies and utility companies are promoting use of energy efficient datacom equipment and best practices.

ASHRAE in collaboration with the New York State Energy Research and Development Authority (NYSERDA) will present 5 full-day workshops throughout New York State focusing on thermal guidelines for data processing, datacom facility energy efficiency, and high density data centers. The workshops are led by instructors who are data center authorities and who are active in ASHRAE Technical Committee 9.9, Mission Critical Facilities, Technology Spaces and Electronic Equipment. You need not be a member of ASHRAE to participate.

Because of the importance of reducing New York State's energy use and the opportunities for savings that can be achieved through improved datacom center design and operation, ASHRAE and NYSERDA are funding these seminars. There is no registration fee. But attendees must register in advance. Space is limited.

All attendees will also receive at no cost three ASHRAE design manuals, a value of nearly \$200.

FREE ASHRAE/NYSERDA Workshop

1st Workshop

Time: 8:30 a.m.-5:00 p.m.

Date: March 25, 2008

Place: College of Nanoscale Science and Engineering, University at Albany, SUNY

Cost: FREE! Register at <u>www.ashrae.org/datacenter</u>.

Additional Workshops in 2008:

New York City-May 20, 2008 Syracuse, NY-July 29, 2008 Buffalo, NY-September 9, 2008 New York City-November 6, 2008

You must RSVP in order to attend. Seats are limited, <u>reserve now</u>.

Attendees will receive 3 ASHRAE design manuals at no cost:

- Thermal Guidelines for Data Processing Environments
- Improving Datacom Facility Energy Efficiency
- High Density Data Centers–Case Studies and Best Practices



For more information, visit www.ashrae.org/datacenter

Brian Haynes, Marketing Specialist - American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. Direct Line: 678-539-1132 Fax: 678-539-2132 eMail: <u>BHaynes@ashrae.org</u> Web:<u>www.ASHRAE.org</u>



ASHRAE Publishes Updated Version of Energy Efficiency Standard

ATLANTA – Energy reduction through new requirements related to lighting, façades, and mechanical systems is achievable in the latest energy efficiency standard from ASHRAE and the Illuminating Engineering Society of North America (IESNA).

Just published, the 2007 version of ANSI/ASHRAE/IESNA Standard 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings. The standard contains changes made through 47 addenda to the 2004 standard.

"One of the best ways to reduce building energy consumption is to reduce, or eliminate, the cooling or heating loads," Mick Schwedler, chair of the Standard 90.1 committee, stated. "By doing so, the systems installed in buildings become smaller and use less energy. For example, on a hot, sunny day, having more insulation in the roof and better glass on the southern and western façades of a building reduce the air conditioning necessary as well as its resultant energy use. Two of the addenda do this by enhancing the insulation and fenestration (or window) requirements for the building exterior."

The standard also addresses reduction of electrical and cooling loads and thus electricity by allowing less power for lighting. An addendum revised lighting allowances for retail displays, as it allows more flexibility for designers and better reflects actual retail lighting function.

Schwedler cited forewords from three approved mechanical addenda to quantify a portion of the energy savings:

Addendum an: "...would save about 18 trillion Btu of gas and oil annually once the existing boiler stock turns over."

- Addendum g: "will save an estimated 1.05 Quads of cumulative primary energy by 2035."
- Addendum f: "will save an estimated 2.3 Quads of cumulative primary energy by 2035."

"These substantial savings are credited to the work of past Standard 90.1 Chair Jerry White, the Standard 90.1 committee, and those that aided in the rigorous public review process," Schwedler said. "We know that many projects are achieving considerable energy savings at reasonable costs and ask the entire design, operation, and owner communities to share these project ideas and contribute toward future energy and energy cost savings."

The cost of the I-P version of ANSI/ ASHRAE/IESNA Standard 90.1-2007, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, is \$119 (\$95, ASHRAE members). The SI version will be available later this spring. The standard is co-sponsored by the Illuminating Engineering Society of North America (IESNA).

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 at <u>www.ashrae.org/bookstore</u>.

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

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From the Editor's Desk

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

Any announcements of interest, as well as letters, opinions, questions or comments, should be addressed to Christina Walter, Trane, 75 Town Centre Drive, Suite 300, 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.