

ASHRAE Rochester



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VOLUME 4, ISSUE 2

SEPTEMBER 4, 2009

It's time for the ASHRAE Clambake...

Topic: "Energy Conservation at the Eastman Business Park"

Presenter: Raúl Santiago P.E., Kodak Rochester Energy Manager, Eastman Kodak Company

When: September 14, 2009 at 5:00 PM

Where: White House Lodge at Webster Park

Cost: \$25.00 plus \$5.00 per dozen clams (No limit, Pre-order as many dozens as you want)

Tickets must be purchased by September 1st. No tickets will be sold at the door. **See clambake announcement on page 5** of this issue for specifics on how to make your reservation.

Reservations are Required





Chapter Officers

President

Jeffrey Davis, PE
585-381-3360/381-3368(fax)
jdavis@turnerengineeringpc.com

President Elect

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

Vice President/Tech

Jeffrey Ellis
585-334-7710/334-7738(fax)
ellis@airsystemsbalancing.com

Secretary

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

Treasurer

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

Board of Governors

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

Trisha Jackson
585-272-4650/272-4676(fax)
tjackson@nrg-concepts.com

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

Phil Masters
585-288-1600/288-2481(fax)
philm@rpfedder.com

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

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



Committee Chairs

CTTC/Programs

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

CTTC/TEGA

Carlos Dachary 585-671-8110
cdachary@spc-ny.com

CTTC/ Refrigeration

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

Historian

Lee Loomis 585-262-2870/262-4156(fax)
leeloom@aol.com

Membership

Phil Masters 585-288-1600/288-2481(fax)
philm@rpfedder.com

Research Promotion

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

Student Activities

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

Newsletter Editor

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

Attendance & Reception

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

Webmaster

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



ASHRAE 2009/2010 MEETING SCHEDULE

DATE	EVENT	LOCATION	SCHEDULE
9/14/2009 Donor Recognition	Annual Clambake: Raul Santiago -Eastman Kodak Company "Energy Conservation at Eastman Business Park"	Webster Park White House Lodge	5:00 PM
10/12/2009 Membership Night	Danja McMillan—Camfil Farr "ASHRAE 52.2-2007"	Mario's	12:00-2:00 PM Lunch
11/9/2009	David Meyer—Pathfinder Engineers Possible tour of new downtown office with review of LEED Accomplishments	Pathfinder - Dinner downtown?	5:30 PM
12/14/2009 Research Promotion	TBD—Possible Distinguished Lecturer Speaker	Mario's	12:00-2:00 PM Lunch
1/11/2010 Student Night	Steve Beck—Envelope Commissioning Joint Meeting with USGBC	Mario's?	12:00-2:00 PM Lunch
2/8/2010 Student Night	RIT CIMS Building—Thermal Fluids Lab Al Rodgers & Carl Lundgren	RIT - Dinner through RIT Food Service	5:30 PM
2/13/2010	Valentine's Dinner Dance	Hyatt Downtown Rochester	7:00 PM
3/8/2010 Membership Night	TBD—Possible Distinguished Lecturer Speaker	Mario's	12:00-2:00 PM Lunch
4/12/2010	Refrigeration Tour—Tour of Perry's Ice Cream Possible Joint Meeting with Niagara Chapter	Perry's Ice Cream—Akron Dinner?	
5/18/2010	Annual ASHRAE Golf Outing and Picnic	Ravenwood Golf Club	8:00 AM Golf 2:00 PM Picnic 6:45 PM Dinner

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

Over the past several years, there has been a profound shift in the building construction industry toward more energy and environmentally conscious buildings. LEED certified buildings are becoming increasingly prevalent. In addition to this, there are many organizations that have instituted green building initiatives. Right in the Rochester community, there are several organizations that are stewards of LEED certification. The Rochester Institute of Technology has completed one new LEED building on their campus and is in the process of completing another.

Last year, the Rochester Chapter was fortunate to have current ASHRAE Society President Gordon Holness make an extremely informative and timely presentation on energy efficiency in existing buildings. His presidential theme is "Sustaining our Future by Rebuilding Our Past." Mr. Holness states that the vast majority of buildings that will exist in the year 2030 already exist today. Energy efficiency in buildings has taken on new meaning of late when we consider the escalating cost of construction materials, and the cost of operating a building.

Rochester based Kodak corporation has undertaken substantial energy efficiency initiatives

throughout their buildings. Raul Santiago will be discussing many of these measures at our annual kickoff clambake at the White House in Webster Park. The beautiful view of Lake Ontario and the recent renovations to the lodge provide the perfect setting for our annual kickoff event. Please come and join us to start off our season.



Jeff Davis, PE, 2009-2010 President



ASHRAE CLAMBAKE



White House at Webster Park

When: September 14, 2009
 Where: Webster Park White House Lodge
 Time: 5:00 P.M.
 Cost: \$25.00 plus \$5.00 per dozen clams

(No Limit, Pre-Order as Many Dozen as You Want)

Tickets must be purchased by September 1st. No tickets sold at the door.

Energy Conservation at the Eastman Business Park

Presented by: Raúl Santiago P.E., Kodak Rochester Energy Manager, Eastman Kodak Company

Raúl Santiago (Kodak Rochester Energy Manager) has over 20 years of experience evaluating and optimizing a variety of mechanical systems supporting manufacturing operations and processes. In support of Kodak's transformation, he has been leading teams of technical experts in reducing overall energy consumption utilizing Lean Manufacturing tools and principles. Energy conservation efforts over the last 3-4 years have resulted in yearly savings of over \$25 million dollars, and the closure of one of Kodak's' cogeneration power plants. Raul holds a bachelors degree in Mechanical Engineering from the University of Puerto Rico and is a licensed professional engineer in the state of NY.

Buffet Menu: Marinated Split Roast Chicken; Pulled Pork, Baked Beans, Salt Potatoes, Corn on the Cob, Tossed Green Salad, Rolls/Butter, Pop, Beer, Coffee and Dessert.

Catered by: Flaherty's Three Flags Inn

If you have questions contact Kacie at R.F. Peck at (585)697-0836 x105 or E-mail to khoffman@rfpeck.com



Take 104E towards Webster. Take Holt Rd exit. Turn left on Holt Rd. and take to end. Turn left on Lake Rd & enter park. Whitehouse Lodge is on the right hand side of Lake Rd. on the shores of Lake Ontario.

Non- ASHRAE Members are Welcome!

Cut Here

Make check out to Rochester Chapter of ASHRAE and mail with completed form to:
 ASHRAE Clambake, Attn: Kacie, R.F. Peck Co. Inc, 889 Atlantic Ave., Rochester, NY 14609

Name: _____ ASHRAE Member Yes No
 (Circle one)

Company: _____

Address (where tickets are to be sent): _____

City: _____ State: _____ Zip Code: _____

Number of Buffet Tickets: _____ x \$25.00 = Total \$ _____

Number of Dozen Clams: _____ x \$5.00 = Total \$ _____

Total Check Amount: \$ _____

Reservations must be mailed in by September 1st.

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Governmental Affairs Update

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, 08/21/09

- [DOE Announces Funding for Improving Energy Efficiency in Federal Buildings](#)
- [Alaska Legislature Overrides Veto on Stimulus Funds](#)
- [Energy-Related Carbon Dioxide Emissions Projected to Drop 5% in 2009](#)
- [Nation's First Green Building Code Takes Effect in CA](#)
- [More than \\$2 Billion in Tax Credits Announced for Energy Manufacturers](#)
- [Energy Efficiency Mission to India Scheduled](#)



[DOE Announces Funding for Improving Energy Efficiency in Federal Buildings](#)

The U.S. Department of Energy (DOE) announced more than \$20 million in high-end technical assistance to federal agencies to help ensure the widest possible implementation of leading edge energy efficiency technologies across the federal government. To assist federal agencies, DOE's Federal Energy Management Program (FEMP) will make available the technical expertise from DOE's National Laboratories for such projects as cool roofs, greenhouse gas reductions, renewable energy, smart grids, zero energy homes, sustainable buildings, and energy and water retrofits.

Fifteen agencies will share more than \$20 million in technical assistance:

- Architect of the Capital
- Department of Homeland Security
- Department of Commerce
- Department of Defense
- Department of Energy
- Department of Interior
- Department of Justice
- Department of Labor
- Department of Transportation
- General Services Administration
- Health and Human Services
- National Archives
- Treasury Department
- United States Department of Agriculture
- Department of Veteran Affairs



The federal government, as the nation's largest energy consumer, has a tremendous opportunity and clear responsibility to lead by example. FEMP is central to this responsibility, guiding agencies to use funding more effectively in meeting federal and agency-specific energy management objectives and goals, including reducing federal energy intensity by 30% by 2015 from 2003 levels, reducing water intensity by 16% by 2015 from 2007 levels, and generating or purchasing renewable electric energy equivalent to at least 7.5% of its electricity use by 2013.

Many projects will help create new jobs and expand a clean energy economy.

\$17 million will be used to enhance and accelerate FEMP service functions to the federal Government, \$3 million to develop a comprehensive greenhouse gas (GHG) management and abatement program, and \$2.5 million to develop an energy, water and emissions reporting and tracking system for federal facilities.

For more information on these and other Recovery Act related funding opportunities, visit DOE's Recovery and Reinvestment Web site (<http://www.energy.gov/recovery>).

[Alaska Legislature Overrides Veto on Stimulus Funds](#)

The Alaska State Legislature completed a one-day special session in Anchorage, confirming Craig Campbell as Lieutenant Governor and overriding a veto of more than \$28 million in federal economic stimulus funds for energy efficiency and cost relief. The Legislature voted to override the stimulus funds 45 to 14 with one excused. The override will allow Alaska to accept more than \$28 million in federal stimulus funds previously vetoed in May. The Legislature debated the funding extensively throughout the recently-completed regular session, and throughout the interim, and the U.S. Dept. of Energy advised legislators that the stimulus funds would not force the state to adopt more stringent building codes or carry other federal mandates.

The DOE letter said Alaska's governor or Legislature can qualify for the money by assuring "that the state will encourage, promote and assist municipalities that choose to adopt their own energy-efficiency codes to achieve the goals ... reduced energy consumption in public or private buildings."

[Energy-Related Carbon Dioxide Emissions Projected to Drop 5% in 2009](#)

U.S. carbon dioxide emissions from the burning of fossil fuels are projected to decrease by 5% in 2009, according to DOE's Energy Information Administration (EIA). The EIA's "Short-Term Energy Outlook," projects annual energy-related carbon dioxide emissions for the first time. Economic downturns are generally bad news, but they're great for reducing greenhouse gas emissions, because businesses and industries use less energy and people generally drive less. In 2008, energy-related carbon dioxide emissions decreased by 3.2% in the United States, and that trend is expected to deepen this year. Energy-related carbon dioxide emissions are the dominant greenhouse gases emitted in the United States, so the overall greenhouse gas emissions generally follow the same trend as the energy-related carbon dioxide emissions.

Breaking it down by fossil fuel, the EIA expects carbon dioxide emissions from petroleum to decline by 4% in 2009, primarily due to the decreased consumption of jet fuel and fuel oil, with motor fuel consumption holding steady. Emissions from burning natural gas should drop by 2.3%, due to a lower production of electricity, while emissions from burning coal are expected to drop by 7.9%, due to declining industrial use and the switch of electric utilities to fuels other than coal. Looking ahead to 2010, the EIA sees a 0.7% increase in energy-related carbon dioxide emissions as the economy improves. Increased coal and natural gas consumption will push coal emissions up by 1.1% and natural gas emissions up by 0.5%. And even though transportation fuel consumption is expected to increase by 1.5% in 2010, the growth in biofuels is expected to hold the growth in carbon dioxide emissions to only 0.6%. See the EIA's "Short-Term Energy Outlook" (<http://www.eia.doe.gov/emeu/steo/pub/contents.html>).

Governmental Affairs Update (continued)

[Nation's First Green Building Code Takes Effect in CA](#)

As of August 1st, 2009, the nation's first Green Building Code is in effect in California, announced the California Building Standards Commission recently. Plans for the code were announced last year, and while the code is currently voluntary, mandatory rules should be completed by the end of 2010.

The requirements set high standards, requiring new construction to reduce potable water use by 20 percent, a reduction beyond California's Energy Code which is already one of the most stringent codes in the country. The code also establishes a two tiered 15 or 30 percent energy reduction above current levels for all buildings through a combination of more efficient appliances and windows, better insulation, and other upgrades. The code also includes improvements to air quality and resource conservation and suggests various site improvements such as parking for hybrid vehicles.

Download the code from the California Building Standards Commission website: <http://www.bsc.ca.gov>.

[More than \\$2 Billion in Tax Credits Announced for Energy Manufacturers](#)

As part of an innovative partnership aimed at increasing economic development while setting our nation on the path to energy independence, the U.S. Department of the Treasury and the U.S. Department of Energy announced a program to award \$2.3 billion in tax credits for manufacturers of advanced energy equipment. Authorized by the American Recovery and Reinvestment Act (Recovery Act), this new program will provide tax credits to manufacturers who produce clean energy equipment.

The Recovery Act created a new tax credit program by authorizing Treasury to provide developers with an investment tax credit of 30% for facilities that manufacture particular types of energy equipment. Qualifying manufactures will produce solar, wind, and geothermal energy equipment; fuel cells, microturbines, and batteries; electric cars; electric grids to support the transmission of renewable energy; energy conservation technologies; and equipment that captures and sequesters carbon dioxide or reduces greenhouse gas emissions.

The manufacturing tax credit is capped at \$2.3 billion, and credits are available for two years or until the cap is reached. Companies can expect to receive payments within 180 days of filing for the credit. To view the program summary and guidance for applying for the tax credit, see the U.S.

Department of Energy's Advanced Energy Manufacturing Tax Credit Web page (<http://www.energy.gov/recovery/48C.htm>).

[Energy Efficiency Mission to India Scheduled](#)

The U.S. and Foreign Commercial Service, will lead an Energy Efficiency Trade Mission to India, November 16–20, 2009. Organized by the United States Department of Commerce, International Trade Administration, U.S. and Foreign Commercial Service (CS), in partnership with the U.S. Department of Energy (DOE) and U.S. Agency for International Development (USAID), the mission will introduce U.S. manufacturers of energy efficient products and technologies to opportunities in the Indian market. Delegation members will participate in a major DOE and USAID event called "U.S.-India Energy Efficiency Technology Cooperation Conference" in New Delhi. The mission will include appointments, briefings and site visits in New Delhi, Chennai and Mumbai, some of India's most progressive cities dealing with energy efficiency. Trade mission participants will have customized business matchmaking appointments with potential clients, end-users, and partners, and meetings with key Government of India (GOI) and local government officials.

While energy efficiency has many applications in India, recruitment efforts for the trade mission will focus on industry and construction/green building. Best prospects include, but are not limited to, heating/cooling (HVAC) systems, lighting units, pumps, appliances, steam systems/generators, roofing systems, windows, recycled building materials, efficient water technologies, renewable energy technologies, landscape design and effective controls and building management systems.

All parties interested in participating in the Energy Efficiency Trade Mission to India must complete and submit an application for consideration by the Department of Commerce. All applicants will be evaluated on their ability to meet certain conditions and best satisfy the selection criteria.

The mission will be open on a first come first served basis to 12 qualified U.S. companies.

For more information, see the Federal Register Notice 74 FR 41677 at <http://edocket.access.gpo.gov/2009/pdf/E9-19777.pdf>.

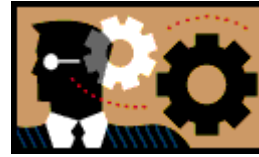
Job Postings & Help Wanted



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.



Corporate Office:
2430 North Forest Road, Suite 106
Getzville, New York 14068

Energy Engineer

Company Description

PRES Services is a national provider of energy solutions to reduce the operational cost bottom line for customers coast to coast. PRES makes buildings comfortable, safe, productive, more efficient and less costly to operate with a full range of services and solutions. At PRES, you're skills will be challenged and encouraged to grow with the advancement of technologies.

Job Description

Applicants should possess the following skills, attributes and experience:

- Capability and leadership skills to work independently out of a home office.
- Building auditing and analysis of existing building systems performance.
- Ability to apply building energy simulation programs, other energy calculation software, and preparation of detailed spreadsheet calculations as it relates to building systems.
- Develop design or retrofit concepts, write accurate scope of work descriptions, calculate savings potential, and estimate budget implementation cost.
- Prepare detailed facility audit reports and other related technical writing documents.
- Participate in the identification and qualification of potential client project opportunities.
- Coordinate the procurement of equipment and project implementation.
- Assist in commissioning activities for retrofit solutions to ensure the design meets performance requirements and the customer's expectations.

Qualifications

Degree in Engineering or other related field. This role requires applicable experience in engineering, construction, or facility operations with direct involvement in energy systems and/or energy reduction initiatives. Strong written and verbal communication skills and is comfortable working in customer-facing situations. Annual average travel is estimated at 30%.

Please forward resumes to Jeff Close at jeff.close@pres-services.com

2009-2010 Presidential Award of Excellence Summary

Chapter #	Chapter Name	Chapter Members / Students	Member Promotion	Student Activities	Research Promotion	Chapter Technology Transfer	History	Chapter Operations	Chapter PAOE Totals
11	Rochester	218 /26	0	0	0	0	0	0	0



Society News: Role of HVAC&R Systems in Infectious Disease Transmission Addressed by ASHRAE

ATLANTA –As health and school officials deal with a second wave of the H1N1 virus, commonly referred to as swine flu, new information is available on health consequences of exposure to such airborne infectious diseases and the implications on the design, installation and operation of HVAC&R systems.

“While the long-standing public health view is that influenza transmission occurs through direct contact or large droplets, newer data suggests it also occurs through the airborne route, meaning HVAC&R systems may contribute far more to transmission of the disease and, potentially, to reduction of that same transmission risk,” said Gordon Holness, president of the American Society of Heating, Refrigerating and Air-Conditioning Engineering (ASHRAE) that developed the guidance.

ASHRAE’s *Airborne Infectious Diseases Position Document* addresses the impact of ventilation on disease transmission, the disease for which ventilation is important for either transmission or control and the control strategies that are available for implementation in buildings. The paper can be read at www.ashrae.org/positiondocuments.

Since the first reported case in the spring of 2009, the H1N1 virus has spread to nearly 170 countries, resulting in 1,154 deaths and some 160,000 illnesses. With a better understanding of ventilation’s effect on the transmission of disease, future incidents of the H1N1 virus may now be easier to prevent, according to Holness. He said several technical solutions are available to assist in avoiding transmission. These include: dilution ventilation, airflow strategies, room pressurization, personalized ventilation, source control, filtra-

tion and ultraviolet germicidal irradiation.

Airborne transmission through building ventilation systems can be significantly reduced by provision of adequate air filtration and pressurization, Holness said. ASHRAE’s other guidance of relevance includes Standard 170, *Ventilation of Health Care Facilities*, and Standard 611, *Air Quality Within Commercial Aircraft*.

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.

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From the Editor’s Desk

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

Any announcements of interest, as well as letters, opinions, questions or comments, should be addressed to Christina Walter, Trane, 75 Town Centre Drive, Rochester, NY 14623 or email to cmwalter@trane.com

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.

