



NUTMEG NEWS

Newsletter of the CT Chapter ASHRAE

April 2007

Volume 34 Issue 7

Thursday, April 12, 2007

The Courtyard at Marriott, Cromwell Connecticut (Exit 21 off I-91)

Board of Governors Meeting: 4:45 PM
Technical Session: 5:00 PM
Attitude Adjustment: 6:00 PM
Dinner/Guest Speaker 7:00 PM

Technical Session: ***“Types of Appliances & Vent Material; Drafts, Flues & Codes”***
Technical Session Speakers: **Mark S. Sylvia – Technical Manager, Exhausto New England**
Dinner Program: ***“Different Types of Air Flow Monitoring Technologies Available”***
Dinner Speaker: **Joe Serdich – Sales Manager, EBTRON**

*Dinner Menu – Entrée Choice: Chicken Milanese or Roast Loin of Pork with Apple Cider Sauce
Each selection comes with Caesar Salad and Apple Pie a la mode*

Please Note: Seating is limited! Please make your reservations early!

Cost: Members: **\$30**; Guests and Late Reservations: **\$35**; Students: **\$8** *(Please note new prices)*

Please give Michelle LeMoine your meal choice by February 5th: Michelle.LeMoine@uinet.com; Fax: (203) 499-2800

Late Reservations have a financial impact on the Chapter, and will not guarantee meal selection.

President’s Message

By Bill Dunn

CRC '08 IS JUST AROUND THE CORNER!

Each August, ASHRAE members from Region I gather for the Chapters Regional Conference (CRC). The location of the annual CRC rotates throughout the region, with a different chapter being the host each year. Last summer the CRC was held in Portland, Maine; this year it will be in Niagara Falls, NY; and in August of 2008 the CRC returns to Connecticut.

At the CRC, officers and committee chairs from each chapter, along with regional officers and Regional Vice Chairs (RVCs), gather for three days to conduct ASHRAE business. Included among the business activities are: voting on various motions and resolutions; the presentation of awards; technical sessions; and training workshops for chapter committee chairs. The CRC is also a great time to socialize with ASHRAE members from other states, especially during the golf outing, the Awards Luncheon, and the Presidential Banquet.

Summer 2008 may seem like a long way off, but it will be here before we know it. As the host chapter for the '08 CRC, there is a lot of work to be done. We have already formed a committee to organize the event, which is chaired by Chapter Treasurer Phil Knowlton. The exact hotel and/or conference facilities have yet to be selected, but we do know the event will take place in arguably the most beautiful region of our state during the summer: the Mystic area.

To conduct a successful CRC, the host chapter needs dozens of volunteers. And of course, those who volunteer are welcomed to take part in the CRC activities and social events. In the coming months, we will be asking for volunteers. If we all pitch in and help out, we will demonstrate to the ASHRAE members in our region exactly what we have known for years: that the Connecticut Chapter of ASHRAE is one of the most vibrant and active chapters in the entire country.

See you at the next dinner meeting on April 12th!

Connecticut Chapter ASHRAE - PO Box 143 Cromwell, CT 06416 www.ctashrae.org

*Statements made in this publication are not expressions of the Society
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Chapter Technology Transfer

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Golf Outing

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Nutmeg News

Julie Williams (203) 791-6019 (203) 791-6050

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Technology Transfer
By Paul Marques

Connecticut ASHRAE chapter would like to thank Larry Felker, Fire & Smoke Product Manager – Belimo Americas, for last month’s technical and dinner session presentations on “Fire and Smoke Dampers.

This month’s technical session presentation will highlight principles of combustion, codes and applications and technical issues that arise while designing flues and exhaust systems.

Mark S. Sylvia currently runs Exhausto New England, LLC which is a master distributor for Exhausto products in southern New England. For five years prior to the creation of Exhausto New England, Mark was the Sales Manager of Commercial Products for EXHAUSTO, Inc out of Atlanta, GA. In his role he was responsible for all sales of commercial products throughout North America as well as assuring the correct usage of Exhausto products in the market place.

Dinner Presentation: Different types of air flow monitoring technologies on the market today and placement guidelines for air flow stations. Why building pressurization is vital in keeping your buildings healthy.

Joe Serdich had worked for Honeywell for 14 years selling indoor air quality devices in both residential and commercial applications. He introduced StrionAir’s new ionization/polarization electronic air cleaner to the engineering community. Now he is employed by Ebtron (Air Flow Monitoring Devices) that monitor outside, return, and supply air to determine IAQ levels and proper building pressurization.

Membership By Matt Mullen

"It Takes a village "to Create an HVAC System

..
With my apologies for paraphrasing that old ancient African proverb once again this month, HVAC systems are inherently dumb machines. HVAC engineers, designers, equipment manufacturers contractors create functioning systems while operators and service technicians keep them operating. HVAC systems cannot exist without human creativity and knowledge to design them and keep them operating.

The original air conditioning systems were as simple as blocks of ice with fans blowing across them. Today we have complex systems which maintain temperature, humidity, indoor air quality and space pressurization at precise conditions with computerized control systems. The HVAC industry's impact on our standard of living is inextricably linked to the increased creativity of our industry's engineers, contractors, manufacturers and building operators.

ASHRAE provides a key role in gathering and disseminating technical knowledge to help advance the industry. And, an active ASHRAE membership can play a key role in advancing your personal career growth and its rewards. Please note I used the term "active membership." You will get maximum benefit from your membership if you attend meetings. Each meeting provides the opportunity to explore new ideas and concepts from speakers and other members that will help you improve professionally.

If you are getting this newsletter, then you are an ASHRAE member already. You have seen the benefit of an ASHRAE membership. We encourage all members to invite at least one person in our HVAC industry to join ASHRAE. All we have to do is ask them!!

For additional membership information, please contact Matt Mullen at 860-870-2250 or via email at mullen@nemsj.com. OR if someone can't wait that long, he or she can go to the ASHRAE website (www.ashrae.org) to join on-line!

Student Activities Committee By Ed Gutowski, P.E.

Scholarship Applications Deadline

The deadline for submission of scholarship applications is April 29, 2007 and they can be downloaded at <http://www.ctashrae.org>. If you are a student or know of one who is interested in the HVAC&R industry we would encourage you to apply. Please contact Edward Gutowski -

ejgutowski@hotmail.com for any questions or concerns.

CCSU Student Visit

Special thanks to Bob Hickey of vanZelm Heywood & Shadford for giving the CT ASHRAE Chapter the opportunity to address his class. Bob teaches a class that is all encompassing with regard to Building Systems. His students have a variety of interests and backgrounds ranging from construction management, industry teachers, and curious students that are between post graduates level to sophomore. We had an opportunity to explain what ASHRAE is, how we are organized and what work we do. We also put on a 1-1/2 hour presentation on the fundamentals of the compression refrigeration cycle and rolled a 10 minute video on the history of air-conditioning. If you are an educator and would like a member of our Student Activities Committee to visit your school, please contact Edward Gutowski at 860-529-8882 or ejgutowski@hotmail.com

Howell Cheney Tech Visit

We had a great visit at Howell Cheney Tech in Manchester CT. The HVAC class is well on their way to becoming part of the much needed technical work force of skilled tradespersons. An introduction to ASHRAE was presented along with some industry samples for talking points. If you have equipment or items of interest that teachers can use for their classes, please contact me at 860-529-8882 or ejgutowski@hotmail.com to facilitate your donation.

Books for Students:

Special thanks to Donald Esthus for his generous donation of math, science and ASHRAE Handbooks. We will find a useful home for them at local school. If you have books you would like to donate, please contact Edward Gutowski at 860-529-8882 or ejgutowski@hotmail.com

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May Technical Tour By Barry Mc Guinness

Just a reminder that in May our tour of the NRG Middletown power station will be the technical session for the May Meeting. Unfortunately, only the first 40 people to sign up for tour will be allowed in. ***Make sure you come to the tour equipped with hard hats and safety glasses!!!***

Help Wanted

HVAC Engineers and Designers

BVH Integrated Services (www.bvhis.com) is currently seeking HVAC designers and engineers at all levels for our New Haven, CT and Hartford/Bloomfield, CT offices.

BVH is a progressive 100 person firm that respects our employees and treats them as professionals. What we expect from everyone on our team is hard work, a willingness to adapt, and a can-do attitude. What we offer in return is a great working environment, the chance to learn and grow, and a highly competitive salary package. We also offer a comprehensive benefits package including 401k with match and generous company contributions to dental and health plans. Both of our offices offer free parking and are close to the interstates and mass transit.

BVH is presently working on some of the most interesting and challenging projects in the region. From university science centers to nanotechnology laboratories, convention centers to LEED-certified buildings, BVH produces hundreds of projects annually for clients in the academic, research, healthcare, and corporate sectors.

Let us show you what a great place BVH can be for you. To apply, submit your cover letter and resume to: BVH Integrated Services, 50 Griffin Road South, Bloomfield, CT 06002; F: 860-242-0236; marial@bvhis.com. EOE

Titan Mechanical Contractors Inc. a PPL Corporation Company is seeking a commercial HVAC Service Technician to join our growing service department. Excellent pay and benefits include, medical, and dental insurance, short, and long-term disability insurance, life insurance, 401K plan, paid vacations, paid holidays, paid sick time, safety incentives, bonuses, company vehicle, uniforms, and technical service training. S-2, D-2 license required. To apply send resume to Attn: Service Manager 150 Batson Dr. Manchester CT. 06042, or email mcase@titanmechanical.com EOE.

BUILDING AUTOMATION POSITIONS

RCMS Controls, Inc., CT & RI's Automated Logic Dealer is growing and we are presently seeking motivated individuals to join our team. We have openings for Project Managers, Control Engineers and Control Technicians. Please go to our WEB site www.rcmscontrols.com for detailed descriptions

of these positions and application details or please feel free to contact us at 203-284-0100.

Progressive Engineering, Inc., a growing East Hartford, CT based consulting engineering firm, seeks motivated HVAC Designer. Progressive Engineering offers excellent benefits and working environment. Sign on bonus for the right candidate.

Come learn from Yoda and the Jedi Masters. Don't be swayed by the "Darkside". Send resume in confidence to: Paulm@progressiveeng.com.

Historian's Report By Phil Knowlton, P.E.

This month we are pleased to highlight two women who have joined 16 men in the ASHRAE Hall of Fame.

Mary Engle Pennington, Ph.D., 1872 – 1952, whose pioneering work improved the safety of perishable foods, was inducted into the ASHRAE Hall of Fame at its 2007 Dallas Winter Meeting. She thus became the second woman to be so recognized. Margaret Ingels, 1892 – 1971 joined the Hall of Fame in 1996. There are now 18 members of ASHRAE's Hall of Fame.



The Hall of Fame honors deceased members of the American Society of Heating, Refrigerating and Air-Conditioning Engineers who have made milestone contributions to the growth of HVAC&R technology.

Pennington was the first female member of and a Fellow of The American Society of Refrigerating Engineers (ASRE), an ASHRAE predecessor Society. As part of the ASRE Centennial in 2004, ASHRAE commissioned U.S. postage stamps featuring likenesses of pioneers in refrigeration, including Pennington.

She was known for her outstanding contributions to the refrigerated preservation of foods in storage. Her most renown achievement was development of refrigerated rail car standards, which she studied by riding back and forth across the country on freight trains and recording temperatures in cars by electrical thermometers.

In 1907, she was named the first chief of the food research laboratory of the U.S. Department of Agriculture to oversee implementation of the Pure Food and Drug Act passed the previous year. To do so, she adopted the motto "care, cleanliness and cold," developing standards for milk inspection, designing packing cases to reduce breakage of eggs and establishing methods for safely freezing and storing fish.

As a private consultant, she supervised the design, construction and operation of cold storages, pre-coolers, commercial and household refrigerators for the protection of eggs, fruits, vegetables and other perishables. She is credited with making the cold storage egg acceptable to the public.

In 2002, Pennington was inducted into the National Women's Hall of Fame, which noted that she "saved thousands of lives by creating national standards for milk and dairy inspection and improved the safety and convenience of refrigerated and frozen foods."

She was awarded the American Chemical Society's Francis Garvan Gold Medal in 1940 for being the American woman who had rendered the most distinguished service to chemistry.

Her ASRE service included serving as associate editor of the ASRE Data Book and Refrigerating Engineering magazine, and as a member of the ASRE council and several committees.

She was born in Nashville, Tenn., in 1872, and died in 1952.



MARGARET INGELS, 1892 – 1971, was a woman who was a generation before her time. She was a student of F. Paul Anderson and was the first woman to graduate from the University of Kentucky School of Engineering and the second woman to receive an

engineering degree in the United States. In addition, she was the first woman in the United States to receive a graduate engineering degree.

She received national attention and was invited to the White House, being recognized as one of 100 women whose career choice did not exist 100 years ago. Ms. Ingels worked with F. Paul Anderson at the ASVE laboratory and later became a long time associate of Dr. Willis Carrier. Because of her close association with Dr. Carrier and assignments with Carrier Corporation, she became a great spokeswoman, not only for Carrier, but for the

industry. She captured the interest of many young minds with demonstrations of refrigeration principles and her speeches inspired young people to enter the air conditioning and refrigeration fields.

Ms. Ingels was more than just a competent engineer, as her 45 technical publications in various journals attest. She developed the "effective temperature" scale to incorporate humidity and air movement in the equation for human comfort. Outstanding among her writing contributions is her book "The Father of Air Conditioning," which outlined some of the Carrier family history and the life and contributions of Dr. Willis Carrier himself. Margaret Ingels was inducted into the ASHRAE Hall of Fame on June 22, 1996 at the Society's 1996 Annual Meeting in San Antonio, Texas.

CT ASHRAE Golf Outing - 2007 By Barry McGuiness

At the end of this newsletter you will find a sign-up sheet for our 2007 golf outing at Shennecossett in Groton. If this might be of interest, please shoot me your email address. bmcguiness01@snet.net

Of Interest: Dallas - Winter 2007 By Phil Knowlton

ASHRAE AWARDS – Winter 2007

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) recognized 42 people for their contributions to ASHRAE and the HVAC&R industry at the Society's 2007 Winter Meeting held in Dallas.

The ASHRAE Hall of Fame honors deceased members of the Society who have made milestone contributions to the growth of HVAC&R technology. The Society inducted Mary Engle Pennington, Ph.D., whose pioneering work improved the safety of perishable foods, into the ASHRAE Hall of Fame. Pennington was the first female member of and a Fellow of The American Society of Refrigerating Engineers (ASRE), an ASHRAE predecessor Society. She was known for her outstanding contributions to the refrigerated preservation of foods in storage.

The ASHRAE/ALCO Medal for Distinguished Public Service recognizes distinguished public service by an ASHRAE member. The recipient was David McKenney, P.E., a Life Member from Atlanta.

Fellow ASHRAE is a membership grade that recognizes distinction in the arts and sciences of environmental technology. ASHRAE elevated 19 members to the grade of Fellow ASHRAE

The ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building designs, which incorporate ASHRAE standards for effective energy management and indoor air quality. First place was awarded to three members. Honorable Mention was awarded to four additional members.

The ASHRAE Student Design Project Competition. First place was awarded in two separate categories to a team from Penn State. Savannah College of Art and Design won first place in a third category.

The John F. James International Award is given to an ASHRAE member who has done the most to enhance the Society's international presence. Co-winners were from Athens, Greece and Palmetto, Florida.

The E.K. Campbell Award honors outstanding achievements by engineering educators. The recipient was Ronald H. Howell, Ph.D., P.E., Fellow ASHRAE, Life Member, who serves as an adjunct lecturer at Boise State University.

Election Ballot for the 2007-2008 Season

The Nominating Committee is pleased to put forth the following ballot to the membership. This year we are proud to have two (2) members volunteer to run for the Secretary position, and twelve (12) members volunteer to fill seven (7) Board of Governors positions. The Nominating Committee asks that you take a couple of moments and submit your ballot. Historically only 3% of the membership exercise their right to select the leadership for the Chapter.

Chapter Officers: (vote for one, each office)

President-Elect: _____ Matt Mullen Write in: _____ Name: _____
Emcor, New England Mechanical, Inc

Vice President: _____ Philip Knowlton, PE Write in: _____ Name: _____
Retired

Treasurer: _____ Marty Waung Write in: _____ Name: _____
Titan Mechanical, Inc

Secretary: _____ Edward Gutowski, PE
URS Corp

Secretary: _____ John Lauria Write in: _____ Name: _____
RCMS Controls

Incoming President is Paul Marques, *Progressive Engineering*

Board of Governors: (vote for up to seven (7))

_____ Joe Furman <i>Belimo Aircontrols</i>	_____ Barry McGuiness <i>Buckley Associates</i>	_____ Keith Sweitzer, PE <i>Progressive Engineering</i>
_____ Brenda Wall <i>VZHS</i>	_____ Michelle Le Moine <i>UI</i>	_____ Julie Williams <i>Boehringer Ingelheim</i>
_____ Gil Cormier <i>Occupational Risk Control Svcs</i>	_____ Shane Grigas <i>Mega Mechanical</i>	_____ Cary Mandeville <i>Trane Connecticut</i>
_____ David Jackson, PE <i>Fuss & O'Neil</i>	_____ John Lauria <i>RCMS Controls</i>	_____ Edward Gutowski, PE <i>URS Corp</i>

Write in : _____ Name: _____

Incoming BOG member as Past President is Bill Dunn, *Air Equipment, LLC*

Note: Both members running for the Secretary's position are also running for the Board of Governor's position. If the elected Secretary also receives enough votes to be in the top seven (7), his name will be removed and the next highest BOG candidate receiving votes will be elected.

Member in good standing _____
Signature

_____ *Date*

_____ *Print*

_____ *Membership #*

Please fax ballots to: 860-674-4340
 Sean Bronson
 Nominating Committee Chair

or mail to: Connecticut Chapter ASHRAE
 Elections
 PO Box 143
 Cromwell, CT 06416

Ballots must be received by fax or postmarked by April 30, 2007

2007 ASHRAE GOLF OUTING
FRIDAY, JUNE 15th – RAIN OR SHINE

SHENNECOSSETT GOLF COURSE
93 PLANT ST.
GROTON, CT 06340
TEL.# (860) 445-0262
www.shennygolf.com

11:00 a.m. - Practice and Lunch
12:30 p.m. - Shotgun Start
5:00 p.m. - Cocktails
6:00 p.m. - Sit-Down Dinner & Prizes

Name: _____ **Company:** _____

Email: _____ **Tel #:** _____

Guest 1 _____

Guest 2 _____

Guest 3 _____

Golf, Lunch & Banquet - \$150.00 p.p. x _____ = \$ _____

Sponsor a Tee or Green for ASHRAE Research - \$100 each.

Prizes for 1st place, long drive, straightest drive & closest to the pin

Directions: From I-95, take Exit 87, Route 349 south (Clarence B. Sharp Highway). Turn right at second light (Pequonnock Road-Rainville-Chester Street). Follow to end, then turn left onto Eastern Point Road (Route 349 south). Go past Pfizer plant, turn left onto Plant Street. Club is on the right.

Please mail registration & check payable to:
CT ASHRAE, PO BOX 143, CROMWELL, CT 06416

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