The Central New Yorker ASHRAE Newsletter

The CNY Chapter of the American Society of Heating, Refrigerating and Air Conditioning Engineers

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THE PRESIDENT'S Message

2₀₀₉ has come to an end already. I hope it was a good year for everyone. It seemed to go by in the blink of an eye and a little bit faster than 2008. That old saying that the older you get the faster the years go by is very true. I'd like to wish everyone a happy new year with good health and prosperity.

Last months Holiday Party was a very good time. We had dinner at Rico's Ristorante and the food was delicious. We had 17 people show up for dinner and the weather turned out not to be a factor. Thank you all who showed up and I hope you had as good a time as I did.

This month's speaker will be Mark Capriotti from Flex-Hose. Mark will be speaking about Seismic Movement-Isolating Building Joints and a Review of 2009 International Building Code (IBC). Mark is also a past ASHRAE President.

Hope to see you at the meeting.

Jim Walker CNY Chapter President

ASHRAE Monthly Meetings

Location: Doubletree Hotel Syracuse 6302 State Route 298, Carrier Parkway East, Syracuse, NY 12205

 Times:
 5:30 - 6:00 p.m. Social Hour (cash bar)

 6:00 - 6:30 p.m. Dinner
 6:30 - 6:45 p.m. ASHRAE Business

 6:45 - 8:00 p.m. Main Program

Cost: \$25.00 per person. Reservations: http://centralnewyork.ashraechapters.org

http://www.centralnewyork.ashraechapters.org

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2010 CNY ASHRAE Programs

Happy New Year!!! I hope everyone had a Happy Holiday! Our Christmas gathering at Ricco's was great, I am sure everyone had their fill.

Our program for January will be from our own Past President, Mark Capriotti from Flex Hose Inc. It will be on Seismic Movement-Isolating Building Joints and a Review of the 2009 International Building Code (IBC) & The American Society of Civil Engineers Requirements (ASCE 7-05).

We encourage all to attend especially our Engineers.

Upcoming Programs

January 13	Mark Carpiotti (ASHRAE Past President) — International Building Codes
February 10	UVC — Joint Meeting ASHE (Speaker provided from EDCO Filters) SU Night
March 10	Carrier History Night
April 14	Tour — Cornell Combined Heat & Power Plant
May 12	Julian DeBullet — Variable Refrigerant Flow/Joint Meeting RSES
June	Clambake & Golf Tournament

— Steve Sill Vice President/Programs

The Association of Energy Engineers (AEE)

The Association of Energy Engineers (AEE) is a nonprofit professional society of over 11,000 members in 78 countries. The mission of AEE is "to promote the scientific and educational interests of those engaged in the energy industry and to foster action for Sustainable Development."

To many, the AEE is best known for it's Certified Energy Manager (CEM) certification. Since its inception in 1981, the CEM credential has become widely accepted and used as a measure of professional accomplishment within the energy management field. In addition, the AEE offers training and certification for Energy Auditors, Energy Procurement, Distributed Generation, Building Commissioning, and other energy-related specialties. The Foundation of the Association of Energy Engineers is a nonprofit organization that is dedicated to furthering education in energy and management. To date, the Foundation has awarded over \$480,000 in scholarships for use by outstanding students.

The AEE was founded in 1977 by Al Thurmann, who still serves as it's executive director. There are 70 local chapters which meet regularly to discuss regional issues and networking. Although there is not an active AEE chapter in Syracuse, those interested can participate in either the Albany or newly formed Rochester (WNY) chapter. The WNY Chapter meets monthly at Mario's via Abruzzi Restaurant in Pittsford. Contact Ronald. Lapointe@XEROX.com for more information.

Thank You!

With the support of thousands, ASHRAE Research would like to extend a special thank you to these top investors in the Central New York Chapter and invite others to add their names to the 2009-2010 Honor Roll of Investors at https://www.ashrae.org/aboutus/resource_promotion.asp

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ASHRAE Supporters

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Cool Link of the Month: Want to see your Research dollars at work? http://www.ashrae.org/publications/page/1604" \t "_blank" Download the free Advanced Energy Design Guide for Hospitals and Healthcare Facilities

The CNY Chapter is now accepting business card advertising in this monthly newsletter. Send us your business card (or text for a line card) and we'll scan it in and for \$50 your card will run in the newsletter for the year. Send your ad and payment to:

ASHRAE Newsletter, Advertising, P.O. Box 2396, Syracuse, NY 13220 If you have a digital card (or questions), email it to us at westbror@upstate.edu.

Building Energy Labeling Program

Program to provide information aimed at reducing building energy use Pilot Building Energy Labeling Program Launched by ASHRAE with Leading Owners, Designers

ATLANTA — A new program to inform building owners and operators, tenants and prospective buyers on the energy use of buildings, similar to a nutrition label on food or miles per gallon ratings on cars, was launched today to encourage the building industry to find ways to cut energy use and costs.

The Building Energy Quotient program, which will be known as Building EQ, will include both As Designed (asset) and In Operation (as operated) ratings for all building types, except residential. It also will provide a detailed certificate with data on actual energy use, energy demand profiles, indoor air quality and other information that will enable building owners to evaluate and reduce their building's energy use. The program is administered by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

"Information on a building energy's use is the critical first step in making the necessary changes and choices to reduce energy use and costs," Gordon Holness, ASHRAE president, said. "The Building EQ program provides an easily understood scale to convey a building's energy use in comparison to similar buildings, occupancy types and climate zone, while also providing building owners with building-specific information that can be used to improve building energy performance."

Holness noted that building energy use disclosure is already mandatory in California; Washington, D.C.; Austin, Texas; Washington State; the European Union; and Australia. Those participating in the pilot program are leading building owners and designers, real estate developers and government agencies, including:

The Durst Organization, the owner, manager and builder of 9 million square feet of mid-town Manhattan office and residential properties, will include 4 Times Square, 1155 Avenue of the Americas and One Bryant Park in New York City in the pilot.

The U.S. General Services Administration, the primary agency responsible for the acquisition and management of federal buildings owns or leases 8,600 properties and maintains an inventory of more than 354 million square feet of workspace for 1.1 million federal employees. Wright Runstad and Co. develops, acquires, manages and leases high-quality commercial office buildings located primarily in the Pacific Northwest, headquartered in Seattle, WA., Ashforth Pacific, Portland, Ore., a diversified real estate firm that owns, develops and invests in assets and provides third-party services, including assets and property management, general contracting and construction management BNIM Architects, a leader of a new generation of design firms headquartered in Kansas City, Mo., will include The Omega Center for Sustainable Living in Rhinebeck, N.Y.; the Internal Revenue Service, Kansas City Campus, Kansas City, Mo.; and the Fayez S. Sarofin Research Building, home of the Brown Foundation Institute of Molecular Medicine for the Prevention of Human Diseases, the University of Texas Health Science Center, Houston, in the pilot Hines, a privately owned real estate firm involved in real estate investment, development and property management worldwide headquartered in London and Houston, Texas, will place high-profile properties from five major U.S. market in the pilot.

The Detroit-Wayne Joint Building Authority will include the Coleman A. Young Municipal Center, which is home of six branches of city and county government including Circuit and Probate Courts, City and County Clerks and the Executive and Legislative branches of the City of Detroit, in the pilot The Michigan Department of Management and Budget, which acquires and manages properties for many of the state's agencies Russell Development Co., which has produced significant commercial buildings in downtown Portland, Ore., will include 200 Market Building in the pilot.

"The Durst Organization is proud to assist ASHRAE with this pilot program," Don Winston, P.E., vice president technical services, The Durst Organization, said. "To continue advancing the state-of-the-art of high-performing buildings, it is essential that the gap between predicted and actual performance be identified and understood. By including both As Designed and In Operation ratings, this system will help us better understand what works and

what doesn't, and allow us to make better informed design choices in future projects."

Through the pilot program, the Building EQ program will allow fine-tuning and final development of the program. In parallel with this effort, ASHRAE has developed a certification program for building energy modelers. Following completion of the pilot program in mid-June, the program is expected to be fully functional by the end of 2010.

Under the program, new buildings will be eligible to receive an As Designed, or asset, rating, which provides an assessment of the building based on the components specified in the design and is based on the results of building energy modeling and simulation. An In Operation rating will be available once the building has at least one year of data on the actual energy use and is based on a combination of the structure of the building and how it is operated. Existing buildings would be eligible to receive both an As Designed and In Operation rating.

"With procedures for both an As Designed and In Operation rating, building owners can make side-by-side comparisons that could further reconcile differences between designed and measured energy use on an ongoing basis," Holness said.

For more information, visit www.buildingEQ.com.

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.

ASHRAE Government Affairs Update President Obama Proposes Home Energy Retrofit Program for Job Creation

President Barack Obama proposed a new rebate program to reward homeowners for making their homes more energy efficient, while also proposing additional federal investments in energy efficiency and renewable energy. As part of a speech about jobs and the economy, the president noted that home energy retrofits create jobs, save money for families, and reduce the pollution that threatens our environment. President Obama also called for aid to small businesses and new investments in infrastructure. Most of the president's proposals will require congressional approval.

President Obama's job plan calls for an expansion of select American Recovery and Reinvestment Act initiatives that promote energy efficiency and clean energy jobs. The president noted that one-third of the Recovery Act is intended for investments "to put Americans to work doing the work that America needs done," such as doubling the U.S. capacity for producing power from renewable energy. But most of those initiatives are oversubscribed, causing many strong ideas to go unfunded. With that in mind, the Obama Administration is supporting the expansion of programs for which additional federal dollars will leverage private investment and create jobs quickly, such as investments in industrial energy efficiency, as well as new or extended tax incentives for investing in U.S. manufacturing facilities for renewable energy technologies. See the White House press release (HYPERLINK "http://www.whitehouse.gov/the-press-office/president-obama-announces-proposals-accelerate-job-growthand-lay-foundation-robust" http://www.whitehouse.gov/the-press-office/president-obama-announces-proposals-acceleratejob-growth-and-lay-foundation-robust) and a transcript of the president's remarks http://www.whitehouse.gov/the-press-office/ remarks-president-job-creation-and-economic-growth).

NY Approves Property Assessments for Solar and Energy Efficiency

The New York legislature passed a law authorizing municipal loan programs for renewable and energy efficiency improvements to homes and businesses. The measure allows municipalities to use Property Assessed Clean Energy (PACE) financing. Under PACE, cities or counties set up special clean energy finance districts capable of issuing low-interest bonds to participants. The bonds are used to cover the costs of renewable energy and efficiency improvements on private property, and participants pay the loans back through a 20-year assessment on their property taxes. PACE programs are entirely voluntary. There are no requirements for municipalities to set them up for homeowners to take out loans from the programs. They are now allowed by state law in California, Colorado, Florida, Louisiana, Maryland, Nevada, New Mexico, New York, Ohio, Oklahoma, Oregon, Texas, Vermont, Virginia, and Wisconsin

Recently, DOE announced \$454 million in Recovery Act funds to help set up programs such as PACE. For more information, read the New York governor's press release http://www.ny.gov/governor/press/press_1116091.html, and the DOE Energy Efficiency and Conservation Block Grant Program application http://www.eecbg.energy.gov/about/competitive_grants.html.

EPA Signs Two Rules Addressing HCFCs and the Ozone Layer

The U.S. Environmental Protection Agency has announced two final rules that will further cut ozone-depleting pollutants, protecting the Earth's ozone layer and reducing harmful greenhouse gases. The rules reduce the availability and use of hydro-chlorofluorocarbons (HCFCs).

The first rule prohibits the use of specific HCFCs to manufacture new air-conditioning and refrigeration equipment beginning in 2010, while allowing limited HCFC use to service existing equipment. The second rule prohibits the sale, distribution, and import of air-conditioning and refrigeration appliances and their components containing certain HCFCs that are manufactured or imported after January 1, 2010.

More information on the two rules: http://www.epa.gov/ozone/title6/phaseout/rulesoverview.html

New Category of Geothermal Heat Pumps Can Earn Energy Star

The U.S. Environmental Protection Agency is announcing new requirements for residential geothermal heat pumps (GHPs), enabling water-to-water geothermal heat pumps to earn the Energy Star label for the first time. EPA's stringent specifications for this new category of geothermal heat pumps will help protect the environment and reduce energy costs, because GHPs that meet the new standards will be up to 45 percent more efficient than conventional pumps.

EPA worked with industry stakeholders to revise the requirements in response to growing consumer demand for water-to-water geothermal heat pumps. The new requirements for water-to-water equipment complements existing efficiency and performance requirements for water-to-air and direct geoexchange GHP models. Homeowners who install geothermal heat pumps with the Energy Star are eligible for a 30 percent federal tax credit.

More information on the heat pumps see http://www.energystar.gov/ghp. For more information on the tax credit see http://www.energystar.gov/taxcredits.

About the ASHRAE Government Affairs Update

ASHRAE's Government Affairs Update features 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).

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.

As the new year starts, I thought it would be a good time to acknowledge and thank the people from CNY who serve and participate at the national level. The collaboration of these experts and others from across the country in these national committees is what develops, drives and standardizes advancements in the HVAC and R industry, energy conservation, and occupant comfort and health.

Bill Walters - Carrier

Standards Committee Standards Project Liaison Subcommittee Standards Reaffirmation Subcommittee ASHRAE Foundation Board of Trustees Standing Standards Project Committee 34 (SSPC 34) - Designation and Safety Classification of Refrigerants Technical Committee (TC)2.5 – Global Climate Change TC 3.1 - Refrigerants and Secondary Coolants

Ron Westbrook - Upstate University Hospital

Electronic Communications Committee (standing committee) through 2012 TC9.7, Educational Facility HVAC Applications Chairman, since 2007, participating since 2005 TC9.8, Large Building HVAC Applications, since 2004 TC9.6, Health Care Facility HVAC Applications since 2005 Webmaster for TC 9.7, 9.8 and 9.6 Infectious Diseases and Energy subcommittees SPC91-2 (Special Projects Committee), HVAC Design Manual for Hospitals and Clinics (revision)

Michael Taras - Carrier

TC 1.3 Heat Transfer & Fluid FlowTC 8.4 Air-to-Refrigerant Heat Transfer EquipmentTC 8.5 Liquid-to-Refrigerant Heat Transfer

Don Rich - Retired - Carrier

Historical Committee. Term will be completed in June. Prior to that served a one year term on the planning committee.

James Pegues - Carrier

TC 4.1 – Load Calculations and Data (voting member) SSPC 140 – Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs (voting member) SPC 183 – Peak Cooling and Heating Load Calculations in Buildings Except Low-Rise Residential Buildings

Jerry Groff – Groff Associates

Publications & Education Council Associate Societies Alliance. In recent years Jerry has also served on the following: Board and on the Society's Nominating Committee (5 yrs) Planning Committee (5 yrs) Technology Council (3 yrs) Chair of the AASA (3 yrs).

Peter Baade - Peter Baade Company

TC 6.01 Hydronic and Steam Equipment Systems TC 6.10 Fuels and Combustion TC 5.01 Fans

Terry Brennan - Camroden Associates T-STDS-SSPC 62.2 Ventilation and Acceptable Indoor Air Quality in Low Rise Residential Buildings

Peter Bushnell - Carrier Transicold TC 5.01 Fans

TC 10.06 Transport Refrigeration

Michael Collins TC 10.07 Commercial Food Display and Storage Equipment

Micheal Froelich - Carrier

TC 2.07 Seismic and Wind Restraint Design TC 2.06 Sound and Vibration Control

Ellis Guiles - TAG Mechanical

STDS-SSPC 180 Standard Practice for inspection and Maintenance of Commercial Building HVAC Systems

Hugh Henderson - CDH Energy

- T-RAC Research Administration Committee
- TC08-11 Unitary and Room Air Conditioners and Heat Pumps
- TC10.03 Refrigerant Piping
- TC10.07 Commercial Food Display and Storage equipment
- TC10.08 Refrigeration Load calculation
- TC10.01 Custom Engineered Refrigeration Systems
- TC10.06 Transport Refrigeration
- TC10.09 Refrigeration Application for Foods and Beverages
- TC10.04 Ultra-Low Temperature Systems and Cryogenics
- TC10.10 Immiscible Oil Refrigerant systems
- TC10.05 Refrigerated Distribution and Storage Facilities
- TC10.02 Automatic ICMAKING Plants and Skating Rinks
- TC08.10 Mechanical Dehumidification Equipment and Heat Pipes
- TC01.10 Cogeneration Systems
- TC06.07 Solar Energy Utilization
- TC08.12 Desiccant Dehumidification Equipment and Components
- TC03.05 Desiccant and Sorption Technology
- TC06.08 Geothermal Energy Utilization

Robert Joseph Hill – Intertek Testing Services T-STDS-SPC 184 – Method of Test for Field Test of Liquid-Chilling Packages

Byron F. Horak - Intertek Testing Services

TC06.03 – Central Forced Air Heating and Cooling Systems TC08.11 – Unitary and Room Air Conditioners and Heat Pumps SPC 164 – Method of Test for Residential Central-System Humidifiers TC05.05 – Air-To-Air Energy Recovery SPC 116-1995R – MOT for Rating Seasonal Efficiency of Unitary A/C & Heat Pumps

Thomas J. Kelly - Carrier Corporation

TRG4 SDGM – Sustainable Building Guidance and Metrics TC05.05 – Air-To-Air Energy Recovery TC02.03 – Gaseous Air Contaminants and Gas Contaminant Removal Equipment

Ezzat H. Khalifa - Syracuse University

TC04.10 – Indoor Environmental Modeling

TC02.03 - Gaseous Air Contaminants and Gas Contaminant Removal Equipment

James R. Kline – Intertek

TC02.06 - Sound and Vibration Control

TC05.03 – Room Air Distribution

Alex Lifson - Carrier Corporation

TC08.01 – Positive Displacement Compressors TC01.11 – Electric Motors and Motor Controls

Scott M. MacBain - Carrier Corporation

SPC 186 – Method of Test for Rating Positive Displacement Compressors that operate at Supercritical Temperature of the Refrigerants TC08.01 – Positive Displacement Compressors

John A. O'Brien SPC 23-1993R – MOT for Rating Positive Displacement Refrigeration Compressors and Condensing Units

Kevin Brent Peck – Intertek

SSPC 41 – Standard Methods for Measurement TG8.VRF – Variable Refrigerant Flow Mar D. Saroka – Carrier Corporation TC10.07 – Commercial Rood Display and Storage Equipment

Lawrence Schaefer – Carrier Corporation

TC01.05 – Computer Application GPC 20 – SML Definitions for HVAC&R

Thomas A. Schmitkons – Inficon, Inc. TC03.08 – Refrigerant Containment SPC 173P – Method of Test to Determine the Performance of Halocarbon Refrigerant Leak Detectors

Chris Spunar – Carrier Corporation TC09.03 – Transportation Air Conditioning

Michael Stark – Carrier Corporation TC06.02 – District Energy TC08.02 – Centrifugal Machines

Christopher G. Stone – Intertek TC08.11 – Unitary and Room Air Conditioners and Heat Pumps

Brian D. Videto – Carrier Corporation TC06.10 – Fueld & Combustion

R. Víjayakumar – Aerfil, LLC TC09.11 – Clean Spaces

Dílip Y. Vyavaharkar – Carrier Corporation TC05.05 – Air-To-Air Energy Recovery

Derald G. Welles - Steril-Aire, Inc.

TC02.02 – UV Air & Surface Treatment
SPC 185 – Method of Testing UVC Lights for Use in Air Handling Units or Air Ducts to Inactivate Airborne Microorganisms
TC02.04 – Particulate Air Contaminants and Particulate Contaminant Removal Equipment
TC09.06 – Health Care Facilities
TC05.06 – Control of Fire and Smoke
TG2.HVAC – Heating Ventilation and Air-Conditioning Security
TC02.03 – Gaseous Air Contaminants and Gas Contaminant Removal Equipment

George S. Yamamoto

TC07.05_P – Mechanical Dehumidification Equipment and Heat Pipes TC07.06_P – Unitary and Room Air Conditioners and Heat Pumps TC08.11 – Unitary and Room Air Conditioners and Heat Pumps

Jianshun S. Zhang – Syracuse University

TC02.03 – Gaseous Air Contaminants and Gas Contaminant Removal Equipment
TC04.03 – Ventilation Requirements & Infiltration
T-EH – Environmental Health Committee
TC05.03 – Room Air Distribution
TC04.10 – Indoor Environmental Modeling

Xiaotang Zhou – Carrier Corporation TC10.06 – Transport Refrigeration

As can be seen from this list there are many local members that contribute to ASHRAE's success. These committees serve our industry by compiling technical knowledge; day to day operations of the organization; creating standards for integration of new technologies and distribution and preservation of this shared knowledge.

For anyone interested in participating at the national level contact Carolyn Kettering at the National office (404) 636-8400.