



THERMOGRAM



The New Jersey Chapter of ASHRAE Newsletter

www.njashrae.com

September 2012

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Broadening ASHRAE's Horizons

Speaker's Topic:

ASHRAE Standard 170 Pertaining To Patient Rooms Using Displacement Ventilation or Chilled Beams

Speaker: Jerry Sipes, PhD, PE
Vice President Engineering
Price Industries



Cost: Members \$50.00
Non-members \$55.00
YEA members \$25.00
Students \$5.00

Time: 4:30 pm Board of Governors Meeting
5:30 pm Sign In and Networking
6:30pm Chapter Announcements, Dinner and Speaker to follow

Location: Renaissance Woodbridge Hotel
515 US Highway 1 South
Iselin, NJ
732-634-3600

RSVP: REPLY@NJASHRAE.COM
(click on hotlink above to email)
or Call 732-218-7463 and leave a message

Certificates Of Attendance Will Be Provided For NJ PE's That Require Them

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Seminars

Open

Special Events/ Golf Outing

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Student Activities

Spencer Reynolds

Technical Sessions

Open

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President's Message By Jim Sarno



Once again, summer has passed too fast and here we are ready for our first Chapter Dinner Meeting of the 2012-2103 year. Let me be the first to welcome both old and new members to what we hope will be a banner year for the NJ Chapter and its members.

I'd like to thank Roger Shults, the Officers and the Board of Governor members for the 2011-2012 Chapter Year who volunteered their time and energy to create what ended up being a terrific year.

The Officers and Board of Governors have worked over the summer in order to prepare for the upcoming year. Some highlights include:

An increased focus on the YEA (Young Engineers in ASHRAE) members in the Chapter. This includes a YEA night, informal meetings with the Dinner Speakers after their dinner presentation to discuss the topic, and what we hope will be a big draw with Back to Basics Night. The Back to Basics night topic is Psychrometrics and is planned to help both the newer members in the HVAC field as well as act as a refresher for 'seasoned' HVAC engineers.

In light of the NJ PE PDH requirements, the Chapter will be issuing Certificates of Attendance to those members that require them to confirm their attendance and/or NYS PDH credits depending on the speaker.

Our Chapter has consistently met our Research Promotion goals set by Society. Our plan is to ensure that the individual members and businesses that donate receive the recognition they deserve. We will track and identify donors in the Thermogram to give you the credit you deserve.

Even though two meetings are shown as "speaker to be confirmed" the dinner meeting speaker schedule is filled and we are just finalizing which speaker can speak on which date.

At our October dinner meeting, the Chapter will be hosting our Region I visitor, Alex Weiss who is the RVC for History and CTTC. Please help me in welcoming him to the Chapter.

As you can see on Page 6, several members of the Chapter received awards at the Region I Chapters Regional Conference held in Boston in August. Congratulations to all who received recognition!

Over the last few years, the Chapter has seen an increase in volunteers. We'd like to continue this trend since spreading the workload out over more people helps make the workload that much easier to handle. If you or someone you know is looking to volunteer for a few hours at an event or maybe help out on a committee, please see either myself, an officer or any Board of Governors member for additional information.

While I know many of the attendees at our monthly meetings, I'm hoping to meet many more of you this year and if you have any ideas, please feel free to email me or see me. I'd love to hear from you....

Jim

2012—2013 Presidential Award of Excellence (PAOE) Summary

Chapter Members	Member Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	NJ Chapter PAOE Point Total
-	Min = 500	Min = 300	Min = 800	Min = 100	Min = 400	Min = 450	-
-	Par = 800	Par = 500	Par = 1,050	Par = 300	Par = 1,000	Par = 1,050	-
695	0	0	0	0	0	0	0

Speaker Bio: Jerry Sipes, PhD, PE
Vice President Engineering
Price Industries

**Presentation Title: ASHRAE Standard 170 Pertaining To Patient Rooms Using
Displacement Ventilation or Chilled Beams**

Jerry Sipes is the Vice President of Engineering for Price Industries and a Professional Engineer with more than twenty years of experience in the HVAC field. He received his Ph.D. in Mechanical Engineering from Kansas State University in 1998, and is a registered professional engineer in 2 states. His technical areas of interest include heat transfer, fluid flow, human thermal comfort, HVAC and acoustics. The title of his Dissertation is "Analytical, Experimental and Numerical Analysis of Moisture Movement in Walls Exposed to Hot and Humid Climates".

In the field of Engineering Research and Education, he served for ten years as a Senior Researcher at the Institute for Environmental Research at Kansas State University and lectured part time for the Mechanical Engineering Department.

Dr. Sipes is a Member in the American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE), and a member of the USGBC Education Steering Committee. At ASHRAE, he is the vice chairman of ASHRAE Technical Committee 5.3 Room Air Distribution, member of standard 195, chairman of standard 200, *Method of Testing for Chilled Beams*, member of standard 79, and past chairman of standard 130, *Methods of Testing for Rating Ducted Air Terminal Units*. He is a past Board Member of the Air-Conditioning, Heating and Refrigeration Institute (AHRI), past chairman of the AHRI Air Control and Distribution Devices (ACDD) Section, the chairman of the AHRI ACDD and AHRI Chilled Beams engineering committees, vice chairman of the AHRI Chilled Beam Section, member of the AHRI Compliance Committee and is the chairman of the ARHI Standard 1240P, *Performance Rating of Active Chilled Beam Units*.

He has presented at various worldwide conferences including most recently, ISHRAE and FEBRAVA.

Jerry has presented to the NJ Chapter several years in a row and we look forward to his presentation on Tuesday.



Calendar of Upcoming Meetings/Events



Date	Speaker	Topic	Theme
October 2, 2012	Jerry Sipes, PE Price Industries	ASHRAE Standard 170 Pertaining To Patient Rooms Using Displacement Ventilation or Chilled Beams	Welcome Back
November 13, 2012	Hank Jackson, PE ETech Solutions	Beam Me Up Scotty! Transport Energy; Motors, Fans & Pumps	Past President's Night
December 4, 2012	Tyler Malm Trane North Jersey	Fundamentals of Psychrometrics	Back To Basics Night
January 9, 2013	Anirban Basu Sage Policy Group	Economic Policy	Joint Meeting With NJ ASPE & NJ MCA
February 5, 2013	Speaker To Be Confirmed Daikin McQuay	High Performance Chilled Water Systems	Research Promotion Night
March 5, 2013	Speaker To Be Confirmed	Energy Modeling Of Existing Buildings	Membership & History Night
April 2, 2013	Ben Mueller Ostergaard Acoustical Associates	Noise Complaint Case Study	Student & YEA Night
May 7, 2013	James Trainor JCI	The Benefits Of Using Variable Speed Drives In Central Plants With Multiple Chillers	Installation of New Officers & Scholarship Award
June 2013	Summer Social	To Be Determined	Spouse's Night

REGION I CHAPTERS REGIONAL CONFERENCE (CRC) AWARDS FOR NJ CHAPTER

The Region I CRC was held in Boston from August 23rd thru August 25th at the Boston Marriot Copley Place. The event coincided with the 100th anniversary of the Boston Chapter. NJ Chapter members that attended the CRC were:

- Spencer Morasch - Outgoing DRC Region I, New ARC Region I
- Garry Myers - Regional Representative
- Michelle Contri - YEA Chair
- Chris Phelan - Region I Vice Chair for Research Promotion
- Jim Sarno - Alternate Delegate/President

During the CRC, the following awards were received by NJ Chapter Members:

Spencer Morasch

- Outgoing Officer - Certificate of Appreciation ; DRC Region I

Bob Daly

- Historian - Golden Ribbon Award Certificate

Roger Shults

- Chapter Technology Transfer Certificate Sustainability Award
- PAOE Certificate, Honor Roll and Special Citation

Jim Sarno

- Newsletter Blank Ink Award for the Thermogram



ASHRAE Installs New Officers, Directors

SAN ANTONIO - ASHRAE has installed new officers and directors for 2012-13 at its Annual Meeting being held here June 23-27.

The new president is Thomas E. Watson, P.E., Fellow Life Member, chief engineer, McQuay International, Staunton, Va. His presidential theme is Broadening ASHRAE's Horizons, which emphasizes the role of ASHRAE members as leaders in the application of sustainable design and practices in our communities worldwide.

"Let us build on a strong heritage as a technical society and broaden the application of our technology to serve humanity and promote a sustainable world," he said. "We must look at broadening our technology, our applications and our people."

Other officers installed for a one-year term are:

- President-Elect: William "Bill" P. Bahnfleth, Ph.D., P.E., Fellow ASHRAE, professor, The Pennsylvania State University, University Park, Pa.
- Treasurer: Thomas "Tom" H. Phoenix, P.E., Fellow ASHRAE, ASHRAE-Certified Building Energy Assessment and Building Energy Modeling Professional, principal and vice president, Moser Mayer Phoenix Associates, Greensboro, N.C.
- Vice President: Constantinos A. Balaras, Ph.D., P.E., Fellow ASHRAE, research director at the Institute for Environmental Research and Sustainable Development, National Observatory of Athens, Greece
- Vice President: Daniel C. Pettway, sales representative, Hobbs and Associates, Norfolk, Va.
- Vice President: Timothy G. Wentz, P.E., Fellow ASHRAE, ASHRAE-Certified High Performance Building Design Professional, associate professor, University of Nebraska - Lincoln.
- Vice President: Thomas E. Werkema, senior consultant, Arkema Inc., Knoxville, Tenn.

ASHRAE installed the following directors to serve a three-year term from 2012-2015:

- Region I Director and Regional Chair: Joseph L. Furman, senior sales engineer, Automated Logic, Wallingford, Conn.
- Region II Director and Regional Chair: Isabelle Lavoie, P.E., branch account manager systems and HVAC, Province of Quebec, Johnson Controls, Saint-Laurent, Quebec, Canada
- Region III Director and Regional Chair: Paul E. Petrilli, P.E., principal, H.F. Lenz Co., Johnstown, Pa.
- Region XI Director and Regional Chair: Kevin L. Marple, president, Benz Air Engineering Co., Inc., Portland, Ore.
- Director-at-Large: Charles H. Culp III, Ph.D., P.E., Fellow ASHRAE, ASHRAE-Certified High Performance Building Design Professional, professor, Texas A&M University, College Station, Texas.
- Director-at-Large: Kirk T. Mescher, P.E., principal, CM Engineering Inc., Columbia, Mo.
- Director-at-Large: Dennis J. Wessel, P.E., Fellow ASHRAE, senior vice president, Karpinski Engineering, Cleveland, Ohio.

New Scholarship Honors ASHRAE's First Female President

ATLANTA - A scholarship created in memory of Presidential Member Lynn G. Bellenger, P.E., Fellow ASHRAE, has been announced for the 2013-2014 school year.

The one-year \$ 5,000 Lynn G. Bellenger Scholarship will be awarded to a deserving female undergraduate engineering student pursuing a degree in a field related to HVAC&R.

"Lynn was a role model for us all, and her dedication to energy modeling helped to promote a more sustainable world," ASHRAE President Tom Watson said. "Through this scholarship we hope to build upon her legacy by encouraging students to pursue excellence in the field of engineering, just as she did."

More information on the scholarship and details on how to apply can be found at www.ashrae.org/scholarships. Bellenger served as ASHRAE's president during 2010-2011 and was ASHRAE's first woman president in its 116 year history. Her presidential theme was Modeling a Sustainable World; she was a recognized expert in energy management, with a strong focus on the need for energy modeling to help create and refine more efficient buildings.

During her time as president, Bellenger promoted sustainable design, which according to her, "ignited a passion in people that is changing the world." The first ASHRAE Energy Modeling Conference was also held during her presidency.

Bellenger passed away in 2011. To honor her legacy, ASHRAE established the Lynn G. Bellenger Scholarship, which is being used to recognize women in engineering. Contributions to help fund the scholarship are being accepted at www.ashrae.org/bellenger.

ASHRAE Proposes First Standard on Commissioning Process

ATLANTA - ASHRAE's first standard focused on the commissioning process is open for public comment. Standard 202P, *Commissioning Process for Buildings and Systems*, would identify the minimum acceptable commissioning process for buildings and systems as described in ASHRAE's Guideline 0-2005, The Commissioning Process. The proposed standard is open for public review from Aug. 17-Oct. 1, 2012. To comment or more information, visit www.ashrae.org/publicreviews.

By taking the best practices from the guideline, first published in 1989, and writing a standard, the requirements can be adopted by code bodies and used by standards developers, according to Gerald Kettler, chair of the Standard 202P committee.

"The proposed standard will benefit the industry by ensuring that the built environment industry follows the owner's quality-oriented process for achieving, verifying and documenting that the performance of buildings, systems and assemblies meets defined criteria," he said. "Standard 202P will support the requirements in other ASHRAE standards and programs."

The commission process assumes that owners, programmers, designers, contractors and operations and maintenance entities are fully accountable for the quality of their work. The process begins at project inception and continues for the life of a facility.

"The process includes specific tasks to be conducted to verify that design, construction, verification, testing, documentation and training meet the owner's project requirements," Kettler said.

ASHRAE first began developing formal guidelines for commissioning in 1982, looking at documenting best practices to achieve facilities that perform according to an owner's needs and requirements. Its original guideline on commissioning was published in 1989.

ASHRAE Assists College Students with Tuition through Scholarships

ATLANTA—To help support future generations of engineers, ASHRAE is awarding over \$86,000 in scholarship money for the 2012-2013 school year.

"Engineers build our future, so we want to help build up future engineers," William Murphy, Ph.D., P.E., chair of the Scholarship Trustees, said. "Many of the ASHRAE scholarship recipients are already working in the industry part time and some are exploring careers in various areas of HVAC&R. We hope that this added exposure to the industry will lead to employment opportunities for them in the field during and after college."

The recipients of ASHRAE's scholarship assistance include the following:

- Reuben Trane Scholarship: \$10,000 to be awarded over two years, Drew Miller, University of Nevada-Las Vegas, mechanical engineering and business management; Kody Jones, Oklahoma State University, mechanical engineering; and Paul Nelson, North Dakota State University, mechanical engineering. The scholarship was established by the Trane Co. in memory of its founder, an innovative engineer, inventor and business executive.
- Willis H. Carrier Scholarships: \$10,000 for one year Elizabeth McLean, Kettering University, mechanical engineering; and Patrick McGrail, Kansas State University, architectural engineering. The scholarship was established by the Carrier Corp. in memory of its founder, who installed the world's first scientifically designed air-conditioning system.
- Frank M. Coda: \$5,000 for one year, Jayson Bursill, University of British Columbia, mechanical engineering. The scholarship was created in memory of ASHRAE's former executive vice president, who served from 1981-2004.
- David C.J. Peters Scholarship: \$5,000 for one year, Julia Pollard, California Polytechnic State University-San Luis Obispo. The scholarship, new for the 2012-2013 school year, is awarded to a third-year student in a four-year undergraduate mechanical engineering program or a fourth-year student in a five-year undergraduate mechanical engineering program at Pennsylvania State University, Virginia Polytechnic Institute and State University or California State University at San Luis Obispo. The scholarship was created by Southland Industries to honor Peters, an advocate of recruiting quality.

The following awards include one-year \$3,000 scholarships:

- Boggarm S. Setty Scholarship: Jared Levy, University of Maryland, mechanical engineering. This scholarship, new for the 2012-2013 school year, is awarded to an undergraduate engineering student attending an institution within ASHRAE Region III, which covers Delaware, Maryland, Pennsylvania, Virginia and Washington, D.C. An ASHRAE Fellow and a member of the Society since 1972, Setty has served on more than 50 technical committees for the society.
- Duane Hanson Scholarship: Cody Knuth, Kansas State University, architectural engineering. The scholarship was established by Gayner Engineers and is named for the company's former president.
- Alwin B. Newton Scholarship: John Heineken, Missouri University of Science and Technology, mechanical engineering. The scholarship is named for an industry pioneer and ASHRAE Fellow who was granted 219 patents.
- Henry Adams Scholarship: Alexander Pray, University of Colorado-Boulder, architectural engineering. The scholarship was established by Henry Adams Inc. in memory of its founder, a Charter Member and sixth president of ASHRAE'S predecessor society, ASHVE, established in 1899.
- ASHRAE Region IV/Benny Bootle Scholarship: Lauren Bridgers, East Carolina University, mechanical engineering. The scholarship was established collaboratively by Region IV and Benny Bootle, a former Region IV director and regional chair on the ASHRAE Board of Directors.
- Donald E. Nichols Scholarship: Arturo de Jesus Santa Ruiz, Tennessee Technological University, mechanical engineering. The scholarship is awarded to a full-time undergraduate engineering student attending Tennessee Technological University. It is named for a former ASHRAE vice president and graduate of Tennessee Technological University.
- ASHRAE Memorial Scholarship: Joshua Kavanaugh, University of Alabama, mechanical engineering.
- ASHRAE General Scholarships: Yu Ho Kwok, University of Hong Kong, building services engineering; and Jingyu Lee, Illinois Institute of Technology, architectural engineering.
- Bachelor of Engineering Technology Scholarship: Yoginder Rana, Ferris State University, HVAC&R technology.
- High School Senior Scholarships: Jonathan Hankenhof, University of Cincinnati, mechanical/architectural engineering; and Katlyn McDermott, University of Missouri, mechanical engineering. The scholarships were established in 2010 for high school seniors entering their freshman year of college in an engineering or engineering technology program.

Over the course of 22 years ASHRAE has awarded over \$1 million to approximately 250 deserving undergraduate and graduate students. For more information on ASHRAE scholarships, visit www.ashrae.org/scholarships. Applications are now being accepted for the 2013-14 undergraduate, regional and university-specific scholarships. The deadline is Dec. 1, 2012.

Additional Combustion Safety Testing Options Proposed for ASHRAE Residential IAQ Standard

ATLANTA - Additional methods to demonstrate combustion safety - an area of major concern for homes in weatherization programs - are being proposed for ASHRAE's residential indoor air quality standard. ANSI/ASHRAE Standard 62.2-2010, *Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings*, defines the roles of and minimum requirements for mechanical and natural ventilation systems and the building envelope intended to provide acceptable indoor air quality in low-rise residential buildings. Three proposed addenda to Standard 62.2-2010 currently are open for public review. For more information, visit www.ashrae.org/publicreviews.

Standard 62.2 currently has limits on exhaust that are based on specific assumptions about the house, specifically that the house is fairly tight. Proposed addendum w would provide professionals working in existing homes additional methods to demonstrate combustion safety, according to Paul Francisco, vice chair the Standard 62.2 committee. This addendum allows users to consider the attributes of the actual house when assessing combustion safety to determine whether there are conditions for sufficient depressurization to cause spillage of backdrafting of a combustion appliance. This is typically an issue for atmospherically-vented appliances, usually caused by some combination of excessive exhaust, duct leakage and door closures that cause pressure imbalances.

"Combustion safety is a major issue for weatherization programs that are using Standard 62.2," Francisco said. "The majority of homes in those programs are leakier than the assumed leakage in the current 62.2 exhaust flow limit, even after retrofit. The current limit in 62.2 can prescriptively preclude them from using an exhaust option even though from a performance standpoint there would not be a problem."

A secondary impact is that addendum w makes it clear that existing combustion appliances do not need to be brought up to current code as a minimum requirement of 62.2, while reinforcing that any new installations must be to code.

"The issue of bringing appliances up to code is also an issue for weatherization programs," Francisco said. "There are many appliances installed that operate satisfactorily despite not being installed to the latest code. With the limited budgets of retrofit programs, as well as rules in some programs prohibiting spending these limited dollars bringing existing appliances up to code unless there is a demonstrated active concern, making it clear that it is a not a mandatory requirement of 62.2 makes it easier for these programs to fully adopt 62.2 while still delivering a final result that is safe for the residents."

One other addendum is open for public review from Sept. 14 until Oct. 14, 2012. The Standard 62.2 committee received comments from users of the standard, especially on addendum n, who did not understand which height was to be used when calculating the Normalized Leakage. Proposed addendum v would clarify the intent of the standard on how to calculate the building height.

Also open for public review from Sept. 14 until Oct. 29 is addendum u, which simplifies compliance with the intermittent ventilation requirements of Section 4.5 if the duty cycle is three hours or less. Under the current wording, designers of intermittent systems had to calculate a ventilation effectiveness factor even if operating the system 90 percent of the time with a duty cycle of one hour. This proposed addendum returns to the three hour maximum duty cycle from earlier editions of 62.2 before the ventilation effectiveness factor must be reduced below 1.0. This will simplify compliance for 80 percent of the users of 62.2. It also addresses the use of two or more fans to provide the required ventilation rate.

ASHRAE Government Affairs Update

ASHRAE Honored in Knoxville

Coincidental with the Region VII Chapter Regional Conference, the region and its East Tennessee Chapter (the CRC's host chapter) were feted by the City of Knoxville and Mayor Madeline Rogero.

On August 23, Region VII Director and Regional Chair Jeff Gatlin, accepted a proclamation from Mayor Rogero, declaring August 20-26 to be "ASHRAE Week" in Knoxville. The proclamation noted the work that the Society, its regions, and chapters do through the writing of standards that improve the quality of life not only in Knoxville and in Tennessee, but worldwide.

Mayor Rogero - who was introduced by the CRC's General Chair, Walter Law (the Region VII Research Promotion chair) - welcomed CRC attendees to Knoxville and spoke to the city's efforts to make public buildings more comfortable, improve indoor air quality, and enhance energy efficiency in the built environment.

Region VII recognized how such events and proclamations can be excellent opportunities for ASHRAE regions, chapters, sections, and members to engage with local lawmakers and regulators, and to promote ASHRAE, the use of its standards, and its priority public policy issues. If you are coordinating a conference, special event - or simply a chapter meeting - consider (as East Tennessee Chapter member Nancy McBee did through her facilitation of Mayor Rogero's participation) how the involvement of policymakers in your area might improve the occasion - and enhance ASHRAE's presence in your community.

For more suggestions on connecting with decision-makers in your area, please contact Mark Wills, Manager, State and Local Government Affairs, at mwills@ashrae.org

COMNET Launches Energy Modeling Portal

COMNET is a quality assurance initiative with a mission to standardize building energy modeling. Managed by the New Buildings Institute with support from the Architectural Energy Corporation, Institute for Market Transformation, and RESNET, COMNET developed a set of energy [modeling guidelines and procedures \(MGP\)](#) that governs this standardization to create consistent baselines relative to various energy codes. COMNET extends and supports existing systems for assessing and rating the energy efficiency of new commercial and multifamily buildings in the United States and offers quality assurance services to green building rating agencies, energy code authorities, utility energy efficiency programs, and other programs that rely on, or require, energy models.

In August, the COMNET team - along with its several committees that include ASHRAE, the U.S. Green Building Council, U.S. Department of Energy, U.S. Environmental Protection Agency, Natural Resources Defense Council, and the California Energy Commission - launched its first commercial product, which allows design teams to directly upload their building energy modeling information into LEED Online.

Free to use during its introductory phase, the [COMNET Energy Modeling Portal](#) can save substantial time and also offers basic quality assurance features to reduce errors in LEED submittals to GBCI. The portal supports two file types - legacy outputs from eQUEST (.sim files) and COMNET XML standard output files. Currently, Trane TRACE™ 700 and EnergySoft's EnergyPro v5.1 have enabled COMNET XML outputs, and several other software vendors are developing this capacity.

Test the portal [here](#). Download the [COMNET Overview](#) and [COMNET Energy Modeling Portal](#) fact sheets. For more information, visit comnet.org.

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- ◆ Business Card ad in 3 Newsletters (next newsletter is October), will be published the end of the month)

COST: \$75

Website Ad Includes:

- ◆ Business card ad on website for 1 year (starts month payment and business card are received)
- ◆ Link to your website

COST: \$300

Newsletter and Website Includes:

- ◆ Business card ad in newsletters through June 2012
- ◆ Business card ad on website for 1 year
- ◆ Link to your website

COST: \$350

