



THERMOGRAM



The New Jersey Chapter of ASHRAE Newsletter

www.njashrae.com

September 2011

reply@njashrae.com

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Open

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Audit

Janet Shipton
732-547-0546

Budget

Roger Shults
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Chapter Bylaws

Open

ASHRAE
*Sustaining ASHRAE
Through Leadership*

NJ Chapter of ASHRAE Meeting

Tuesday, October 4, 2011

Renaissance Hotel

Route 1 South

Iselin, New Jersey

Topic: *Active Chilled Beams*

Speaker: Scott Smith, P.E.

Vice President

Accuspec, Inc.



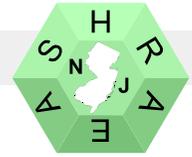
Cost: Members \$55.00
Non-members \$50.00
YEA members \$25.00
Students \$5.00

Time: 5:30 pm

**RSVP: REPLY@NJASHRAE.COM or
Call 732-218-7463**

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NJ ASHRAE is on Facebook



COMMITTEES
(continued)

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973-565-7622

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732-938-2666

Nominating
Chris Phelan
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Programs
Roger Shults
973-396-4152

Refrigeration
Dave Halko
609-520-1600

Research/Promotion
Roger Shults
973-396-4152

Scholarships
James Sarno, PE
732-938-2666

Seminars
Open

Special Events/ Golf Outing
Chris Phelan
973-777-6700

Student Activities
Saheel Chandrani
973-396-4252

Technical Sessions
Open

Web Page Editor
Open

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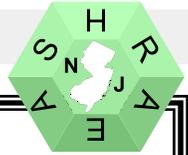
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Calendar of Upcoming Meetings

November 1, 2011 Jerry Sipes - Price-HVAC
Acoustics

December 6, 2011 Charlie Cunliffe - Parker/Sporlan
Refrigeration Electronic Valves and Controls

January 2012 Joint Meeting with MCA and ASPE
Speaker and Topic To Be Announced



Speaker Bio: Scott Smith, P.E.
Vice President
Accuspec, Inc.

Presentation Title: Active Chilled Beams

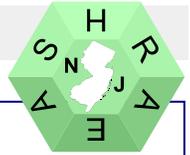
Scott oversees the general business activities of Accuspec's NJ Branch, and actively calls upon clients in the consulting engineering, end-user and contracting communities.

Prior to joining Accuspec, Scott had an extensive career with two notable design-build HVAC firms in Northern New Jersey. His responsibilities with these firms included sales, marketing, business development, sales management, engineering management, and general management. In these various roles, Scott has been extensively involved in the design and construction of HVAC and process systems serving pharmaceutical manufacturing, pharmaceutical and chemical research, food processing and specialty manufacturing facilities.

Scott is actively involved with Contracting Business Magazine, serving on their advisory board, contributing numerous articles, and frequently speaking at their Commercial Contractor's Roundtable. Two of Scott's projects have won the magazine's prestigious Design-Build Award.

Scott received a Bachelor of Science in Electrical Engineering from Rutgers University. He has completed formal HVAC training courses at both the Johnson Controls Training Institute in Milwaukee, WI and at the Carrier Corporation in Syracuse, NY. Scott successfully passed the Professional Engineering Exam in the mechanical discipline and is licensed to practice in the state of New Jersey. In addition, he holds a certification in air and hydronics balancing from the National Environmental Balancing Bureau (NEBB).

Scott is an active member of the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), and a Board member of its New Jersey Chapter. He is also an active member of the International Society for Pharmaceutical Engineering (ISPE) and is a past board member of its New Jersey chapter.



NJ ASHRAE CHAPTER - SCHOLARSHIPS

A new college semester is upon us and if you work with or know of a student who is studying mechanical engineering, enrolled in an HVAC program, and meets the requirements listed below, have them contact Jim Sarno, NJ ASHRAE Scholarship Chair.

Scholarship Eligibility Requirements

High School Seniors

High School seniors that have been accepted into a Mechanical Engineering degree program at a college, university, or technical school.

Students Enrolled In Two-Year Program

They must be full or part-time students who have complete a minimum of 25% of the required curriculum.

They must be students in a curriculum that grants an AAS degree, preferably in HVAC&R technology, and includes at least two (2) courses in this discipline.

They must have a grade point average higher than 3.0. They shall direct the school to forward a certified copy of their academic transcript directly to the committee. They must sign a release form that permits the Selection Committee to examine their academic transcript.

The Chair of their department or their academic advisor must provide a letter of recommendation for the award.

They must complete and submit a minimum 500-word essay describing their educational goals and objectives, and how they expect their career to evolve.

Students Enrolled In Four-Year Programs

They must be full or part-time students who have completed a minimum of 25% of the required curriculum in a school that grants a Bachelor's degree. The student must have successfully completed at least two (2) courses in HVAC&R fundamentals and exhibit a sincere interest in pursuing an HVAC&R related career.

They must have a grade point average higher than 3.0.

They shall direct the school to forward a certified copy of their academic transcript directly to the committee. They must sign a release form, which permits the selection Committee to examine their academic transcript.

The Chair of their department or their academic advisor must provide a letter of recommendation for the award.

They must complete and submit a minimum 500-word essay describing their educational goals and objectives, and how they expect their career to evolve.

Graduate Students

They must be a full-time student enrolled in a HVAC&R related program.

They must have a grade point average higher than 3.0. They shall direct the School to forward a certified copy of their academic transcript directly to the committee. They must sign a release form that permits the Selection Committee to examine their academic transcript.

The Chair of their department or their academic advisor must provide a letter of recommendation for the award.

They must complete and submit a minimum 500-word essay describing their educational goals and objectives, and how they expect their career to evolve.

General Requirements

Applicant shall live and/or be matriculating at a school in the NJ ASHRAE region.

Relatives of ASHRAE members are eligible to apply and be considered for scholarships.

For additional information contact Jim Sarno jsarno@ksi-pe.com or call 732-938-2666 ext: 112





ASHRAE Government Affairs Update

**Importance of Resuming Work on the 2011 Commercial Buildings Energy Consumption Survey
Spotlighted by Senate Funding Subcommittee**

The Senate Energy & Water Development Appropriations Subcommittee issued a report earlier this week that accompanies that Senate Energy & Water Development Appropriations Bill for fiscal year 2012, and calls on the U.S. Energy Information Administration (EIA) to resume work on the 2011 Commercial Buildings Energy Consumption Survey (CBECS).

The Energy & Water Development Appropriations Subcommittee is the Senate funding committee that drafts the Senate’s annual Energy & Water Development Appropriations Bill.

CBECS is a nationally representative survey of commercial building energy consumption and expenditures, and their energy-related characteristics in the United States. The Survey has been conducted about once every four years. “Commercial buildings” in the CBECS context includes all buildings in which at least half of the floor space is used for a purpose that is not residential, industrial, or agricultural; thus it includes building types that might not traditionally be considered “commercial”, such as schools, correctional institutions, and buildings used for religious worship .

The most recent CBECS data available are from the 2003 edition of the Survey. The 2007 data are flawed and unusable due to data collection errors that have since been corrected for the 2011 edition of the Survey. Work on the 2011 CBECS has been halted due to appropriations reductions in fiscal year 2011 to EIA, which oversees the Survey.

The specific language from the Senate report is below, but what this boils down to is that because of this report language (which helps convey Congressional intent), EIA is more likely to use funds they receive in the coming fiscal year to resume work on the 2011 CBECS, however this action is still dependent upon the level of funding EIA receives from Congress for fiscal year 2012.

ASHRAE has been leading a large coalition in support of encouraging the resumption of work on the 2011 CBECS.

The Senate report language follows:

ENERGY INFORMATION ADMINISTRATION

Appropriations, 2011	1 \$95,409,000
Budget estimate, 2012	123,957,000
House allowance	105,000,000
Committee recommendation	105,000,000

1 Does not include rescission of \$86,300,000 under Public Law 112-10.

The Committee recommends \$105,000,000 for the Energy Information Administration. The Committee notes that the Energy Information Administration has announced that it will not release the 2007 Commercial Buildings Energy Consumption Survey [CBECS] due to data and sample flaws resulting from the survey method employed. The 2003 CBECS remains the most current survey of commercial building efficiency used as the baseline for The Energy Star program at U.S. EPA, the U.S. Green Building Council’s Leadership in Energy and Environmental Design [LEED] program, and Green Globes. In light of the age of the 2003 survey and the failure of the 2007 study, the Committee recommends that the Energy Information Administration complete a new Commercial Buildings Energy Consumption Survey during fiscal year 2012.



ASHRAE Government Affairs Update

President Obama Calls on Congress to Pass Legislation that Would Repair & Modernize 35,000 Schools

Addressing a joint session of Congress last night, President Barack Obama laid out a proposal called the American Jobs Act, which is designed to spur America's economy and job growth - much of which would be done through infrastructure projects, including building construction and modernization.

Details of the proposed legislation are not yet available, however the White House has released an overview of what the President would like to see in this bill. Below are highlighted building-related sections of this plan. The full overview is available at <http://1.usa.gov/mT2Nok>

Modernizing Over 35,000 Schools - From Science Labs and Internet-Ready Classrooms to Renovated Facilities: The President is proposing a \$25 billion investment in school infrastructure that will modernize at least 35,000 public schools - investments that will create jobs, while improving classrooms and upgrading our schools to meet 21st century needs. This includes a priority for rural schools and dedicated funding for Bureau of Indian Education funded schools. Funds could be used for a range of emergency repair and renovation projects, greening and energy efficiency upgrades, asbestos abatement and removal, and modernization efforts to build new science and computer labs and to upgrade technology in our schools. The President is also proposing a \$5 billion investment in modernizing community colleges (including tribal colleges), bolstering their infrastructure in this time of need while ensuring their ability to serve future generations of students and communities.

Establishing a National Infrastructure Bank: The President is calling for Congress to pass a National Infrastructure Bank capitalized with \$10 billion, in order to leverage private and public capital and to invest in a broad range of infrastructure projects of national and regional significance, without earmarks or traditional political influence. The Bank would be based on the model Senators Kerry and Hutchison have championed while building on legislation by Senators Rockefeller and Lautenberg and the work of long-time infrastructure bank champions like Rosa DeLauro and the input of the President's Jobs Council.

Project Rebuild: Putting People Back to Work Rehabilitating Homes, Businesses and Communities. The President is proposing to invest \$15 billion in a national effort to put construction workers on the job rehabilitating and refurbishing hundreds of thousands of vacant and foreclosed homes and businesses. Building on proven approaches to stabilizing neighborhoods with high concentrations of foreclosures, Project Rebuild will bring in expertise and capital from the private sector, focus on commercial and residential property improvements, and expand innovative property solutions like land banks. This approach will not only create construction jobs but will help reduce blight and crime and stabilize housing prices in areas hardest hit by the housing crisis.



ASHRAE, AHR Expo Return to Chicago for 2012 Winter Conference

ATLANTA—Registration is open for ASHRAE's 2012 Winter Conference in Chicago where attendees have the chance to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design, as well as participate in technical tours; attend ASHRAE Learning Institute courses; earn professional credits; and obtain ASHRAE certifications.

The 2012 Winter Conference takes place Jan. 21-25 at the Palmer House Hilton. The International Air-Conditioning, Heating, Refrigerating Expo®, held in conjunction with the Winter Conference, will run Jan. 23-25. The Expo, www.ahrexpo.com, is held at the McCormick Place.

In keeping with ASHRAE's goal of continuing education the Conference offers over 200 Professional Development Hours, as well as Continuing Education Units, which can be applied toward a Professional Engineering license.

The technical program features more than 90 programs and 300 speakers addressing energy modeling applications; integrated design; healthcare, laboratories and data center applications, among others; operations and maintenance; high performance buildings; as well as refrigeration and systems and equipment sessions. Additionally, there is a new "mini-conference" on Installation, Operation & Maintenance of HVAC Systems built within the Technical Program. The O&M mini-conference is scheduled on Jan. 22-23. The full Technical Program, which will be announced later this month, offers the opportunity to earn a year's worth of PDHs, NY PDHs, AIA LUs and LEED AP credits.

The Chicago Virtual Conference is included with a paid Conference registration—comp and single day registration excluded—and includes on-demand access to all speakers' audio presentations synced to their presentations. Attendees and speakers can post comments on the presentations for a two-week period. Those not attending the Chicago Winter Conference in person may register for the Virtual Conference only. Register at www.ashrae.org/chicagovirtual.

Five Professional Development Seminars and 15 Short Courses are offered to help industry professionals stay current on HVAC technology, including how to apply the newest ASHRAE standards. The ASHRAE Learning Institute (ALI) is offering a new half-day short course on the basics of combined heating and power systems, as well as updates to the full-day professional development seminars focusing on Standards 62.1, Ventilation for Acceptable Indoor Air Quality, and 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings. ALI courses are approved for renewal of professional engineer and professional architect licenses, as well as for industry certification programs.

Additionally, ASHRAE offers a special administration of all six certification examinations on Jan. 25: Building Energy Assessment Professional (BEAP), Building Energy Modeling Professional (BEMP), Commissioning Process Management Professional (CPMP), High-Performance Building Design Professional (HBDP), Healthcare Facility Design Professional (HFDP) and Operations & Performance Management Professional (OPMP). ASHRAE's certification program recognizes industry professionals who have mastered knowledge and skills reflecting best practices in certain aspects of building design and operations. More information on each certification can be found at www.ashrae.org/chicagoexams.

ASHRAE Conference technical tours give you a first-hand look at technology developed by members to further the industry. Tours include the North Central College Residential and Recreation Center, Loyola University Information Commons, the University of Chicago Mansueto Library and Rush University Medical Center Central Energy Plant.

The Winter Conference also includes a program designed for students of the Society. Highlights of the program, held on Sunday, Jan. 22, include speakers, a professional development session and presentations by the recipients of the Student Design Competition and a technical tour of the University of Chicago library.

To register and for complete Conference information, visit www.ashrae.org/chicago.



ASHRAE is Supporting Sponsor of Solar Decathlon 2011

ATLANTA—ASHRAE is proud to once again shine a light on the key role solar energy will play in the development of net-zero energy buildings as a supporting sponsor of the Solar Decathlon 2011.

The Decathlon sponsored by the Department of Energy and held on the National Mall from Sept. 23-Oct. 2 is a competition in which 20 teams of college and university students compete to design, build and operate the most attractive, effective and energy-efficient solar-powered house.

The students participating in the Solar Decathlon are the future leaders of the building industry, Ron Jarnagin, ASHRAE president, said. "ASHRAE is eager to support these young leaders in their goal of finding the best way to reach net-zero. We can learn a lot from their innovation, enthusiasm and dedication."

As part of its role as a supporting sponsor ASHRAE will host two workshops, one focusing on recent updates on commercial and residential building design standards, held Friday, Sept. 23, and one focusing on renewable energy options for homeowners, to be held Sunday, Sept. 25.

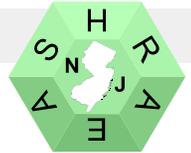
To provide the Solar Decathlon student teams with the best possible engineering resources as they plan their solar homes, ASHRAE has made available a variety of resources to the student teams such as HVAC Simplified and the ASHRAE GreenGuide, to name just a few.

Perhaps the greatest resource ASHRAE has to offer is its members' expertise. Over a dozen ASHRAE members have been selected by DOE and the National Renewable Energy Lab to serve as Solar Decathlon Observers. ASHRAE Observers are assigned to observe two to four houses each to manage the 10 contests that make up the entire competition. ASHRAE Observers plan to dedicate several days to serve in this capacity.

I believe that the Solar Decathlon is a unique opportunity for students to design, test, build, and see their buildings work, Dru Crawley, an ASHRAE member and volunteer Observer, said. "This hands-on application of what they're learning in a broad range of disciplines cannot be replicated any other way."

Additionally, ASHRAE has encouraged its members who live in the D.C. area to volunteer their time at the Solar Decathlon by helping to answer questions asked by the visiting public or assisting organizers with operating the competition. Whether available to volunteer for a few hours or multiple days, ASHRAE members' volunteer contribution helps make the Solar Decathlon 2011 a success.

ASHRAE also offers students, who participate in several intense days of construction, a way to relax by co-sponsoring a student reception with USGBC and AIA on Sept. 24. The reception allows participants to meet and greet decathletes, organizers and sponsors, as well as enjoy great food and the chance to win raffle prizes.



Research Promotion Update

By Roger Shults

ASHRAE's research program, established in 1912, supports 85 research projects with a combined value of more than \$10 Million. Research focus includes energy and resource efficiency, indoor environmental quality, design and operation and management tools, alternative technologies and materials and equipment. Through scholarships, grants and awards, the Society supports engineering education for undergraduate students and research projects for graduate engineering students and new post-doctoral scholars.

We gratefully acknowledge the following contributions made to Research during the 2010-2011 meeting year:

Technical Air Systems Incorporated	\$ 550.00
PSE&G	\$ 2,500.00
CALMAC Manufacturing Corporation	\$10,000.00
AERCO International Inc	\$ 1,500.00
Baltimore Aircoil Co	\$ 1,200.00
Stillwell Hansen	\$ 1,000.00
SRS Enterprises	\$ 1,500.00

Research is an ongoing endeavor and we hope that these fine companies will continue their support during the 2011-2012 year. There is room on the list for others who appreciate the contribution that ASHRAE makes to the industry in which they earn their living. Contributions are also welcomed from individuals who recognize the importance of supporting organizations that are important to their business. The officers of the NJ Chapter are going to set an example for the members by giving at least 100.00 each to research by October 30, 2011. We hope you will follow suit.

Newsletter Update

By Jim Sarno

Welcome to a new year of the ASHRAE NJ Chapter's Newsletter, the Thermogram. We've had some changes this year and the first is that I'll be taking over for Jori Fahrenfeld as the Editor. Jori had the duties of Editor for several years and did a great job and has been instrumental in helping me send the inaugural 2011 Edition out to press as well. Thanks Jori for all of your years as Editor and your help.

Some changes you'll start to see is the Chapter Committee Chairs will be rotating through the ranks and including update letters/columns on a monthly basis. This is to give the membership an idea of what is taking place in each of the Committee's. Along these lines, the Chapter's new Research and Promotion Chair, Roger Shults, has stepped up and his first column is located above.

If there is something you as a member would like to see added to the Thermogram, please feel free to email me and we'll see what we can do to have it incorporated.

Thanks again for taking the time to read the Newsletter and I look forward to seeing many of you at our monthly meetings.

Jim Sarno

ASHRAE Learning Institute 2011 Fall Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Note: You may register up to 24 hours prior to an online seminar. Courses are in US Eastern Standard Time.



Complying with Standard 90.1-2010: Envelope/Lighting
Mon, October 3, 2011 – 1:00 pm to 4:00 pm EST

Healthcare Facilities: Best Practice Design
Mon, October 31, 2011 – 1:00 pm to 4:00 pm EST

Healthcare Facilities: Best Practice Application
Wed, November 2, 2011 – 1:00 pm to 4:00 pm EST

Evaluating the Performance of LEED-Certified Buildings
Mon, November 7, 2011 – 1:00 pm to 4:00 pm EST

Project Management for Improved IAQ
Wed, November 9, 2011 – 1:00 pm to 4:00 pm EST



The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/DPH credits. Archiving is available.

Data Center Energy Efficiency – Part 1
Mon, October 10, 2011 – 1:00 pm to 4:00 pm EST

Data Center Energy Efficiency – Part 2
Wed, October 12, 2011 – 1:00 pm to 4:00 pm EST

Using Standard 90.1 to Meet LEED Requirements – Part 1
Mon, October 17, 2011 – 1:00 pm to 4:00 pm EST

Using Standard 90.1 to Meet LEED Requirements – Part 2
Wed, October 19, 2011 – 1:00 pm to 4:00 pm EST

Implementing Standard 189.1 for High-Performance Green Buildings – Part 1
Mon, October 24, 2011 – 1:00 pm to 4:00 pm EST

Implementing Standard 189.1 for High-Performance Green Buildings – Part 2
Wed, October 26, 2011 – 1:00 pm to 4:00 pm EST

ASHRAE HVAC Design Essential Workshop

January 11-13, 2012 • ASHRAE Foundation Learning Center • Atlanta, GA

ASHRAE Certification Programs

Obtain the skills needed to:

- Improve overall building performance
- Design high-performance HVAC systems
- Effectively collaborate on an integrated design team

ASHRAE has created the HVAC Design Essentials to provide intensive, practical education for designers and others involved in delivery of HVAC services. Developed by industry-leading professionals, this workshop provides participants with training design to accelerate their evolution into effective member on a design, construction or facilities maintenance team.

In addition to gaining in-depth knowledge and understanding, attendees will receive real-world examples of HVAC systems based on the newly renovated ASHRAE Headquarters building. The workshop teaches a systematic approach to guide a design team to a solution that optimally meets the client's expectations.

Who Should Attend

- Engineers new to the HVAC industry
- Facilities managers involved in new construction or major renovation projects
- Technicians who would like to gain design knowledge
- Architects who want to understand HVAC design
- Construction project managers involved with mechanical systems



- Building Energy Assessment Professional (BEAP)
- Building Energy Modeling Professional (BEMP)
- Commissioning Process Management Professional (CPMP)
- Healthcare Facility Design Professional (HFDP)
- High-Performance Building Design Professional (HBDP)
- Operations & Performance Management Professional (OPMP)

For more info, visit
www.ashrae.org/certification

Visit www.ashrae.org/hvacdesign to register



Advertise with NJ ASHRAE

Advertising Rates

Newsletter Ad Includes:

- ◆ Business Card ad in 3 Newsletters (next newsletter is April, 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

	LAW OFFICE OF MICHELE L. ROSS, LLC MICHELE L. ROSS ATTORNEY AT LAW
CONTRACT REVIEW COMMERCIAL CONTRACT DISPUTES COLLECTION MATTERS/MECHANIC'S LIENS	
560 SYLVAN AVENUE • ENGLEWOOD CLIFFS, NEW JERSEY 07632 PHONE: 201.568.2064 • FAX: 201.608.7191 E-MAIL: MICHELE@MROSSLLC.COM • WWW.MROSSLLC.COM	