



THERMOGRAM



The New Jersey Chapter of ASHRAE Newsletter

www.njashrae.com

September 2008

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ASHRAE
Engineering
for
Sustainability

NJ Chapter of ASHRAE Meeting
Tuesday, October 7th, 2008

at

Woodbridge Sheraton
515 Route 1 South & Gill Lane, Iselin, NJ

Value Driven Commissioning
Presented by Mr. Tim Fee, RDK Engineers



Cost: \$50.00 Members
\$55.00 Guests & Walk-ins
\$5.00 Students

RSVP: REPLY@NJASHRAE.COM
NO LATER THAN October 3rd, 2008

Schedule: 4:30 Board of Governors Meeting
5:30 Guest Registration /Cocktail Hour
6:30 Chapter Announcements
7:15 Dinner and Presentation



Please consider the environment before printing this newsletter



COMMITTEES
(continued)

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Scholarships	Russ Graham 908-418-4949
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Student Activities	Russ Graham 908-418-4950
Technical Sessions	Mark Richter, P.E. 212-354-5656
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Calendar of Upcoming Meetings



OCTOBER 7, 2008
Dinner Session: "Value Driven Commissioning"
Presented by Mr. Tim Fee, RDK Engineers

NOVEMBER 11, 2008
Past President's Night
Visit by Joe Furman, Region I RVC Membership Chair
Dinner Session: "Combined Heat and Power Applications and Latest Technologies" *presented by Mr. James Pfeifer, Powerhouse Energy*

DECEMBER 2, 2008
Membership and History Night
Dinner Session: "ASHRAE Advanced Energy Design Guides"
presented by Mr. Drury Crawley, U.S. Department of Energy, ASHRAE Distinguished Lecturer

JANUARY 7, 2009 (Joint Meeting with MCA@ Woodbridge Hilton)

FEBRUARY 3, 2009
Research and Promotion Night

MARCH 3, 2009

APRIL 7, 2009
Student Night

MAY 5, 2009
Scholarship Award Night & Installation of Officers

JUNE 2, 2009
Spouses Night

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ASHRAE Society
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President's Message



As incoming Chapter President, I would like to welcome you to the start of 2008/2009 Chapter Year. The Officers, Board of Governors, and Committees have working diligently during the "off-season" in preparing an action-packed year for our Chapter Members as well as outreach to the community in promoting the "Maintain to Sustain" promises of our Society President Mr. Bill Harrison. Below are some of the activities we have planned for this year:

- ❖ **Dinner Programs.** We are finalizing our programs for the year highlights include a visit by ASHRAE Society President Mr. Bill Harrison in the Spring 2009, two (2) ASHRAE Distinguished Lecturers presenting on separate topics, Sustainable dinner programs, including commissioning and Cogeneration dinners. We are also considering some roundtable discussions on Construction Legal Issues, Mechanical Code issues, and a lecturer on Seismic Applications. We are arranging some joint meeting with other societies in the state, which will be a good way of networking and sharing information.
- ❖ **Society Awards.** It is my goal to find N.J. State Projects worthy of submission for Society Level awards. This is a great marketing opportunity for a State design or construction firm to obtain recognition. Awards such as the Chapter Government Activities Award, Milton Garland Award, and Comfort Cooling Award are just a few. If you have or know of some great projects in our Garden State, please contact me.
- ❖ **Student Activities.** We will be re-establishing contact to select Student Chapters and relationships to specific colleges and Universities in the state.
- ❖ **Golf Outing.** As always, we have a great Golf Outing Planned in the Spring.
- ❖ **All Day Seminar.** We are planning a full day seminar on Chiller Plant design with a Society distinguished Lecturer. In the past, the chapter has had this lecturer present. You do not want to miss it.
- ❖ **Tours.** We are proposing a tour of a newly-constructed facility in Newark. Once we have more information, we will let you know.

As you can see, we have a busy year ahead of us. We have re-structured our dinner meetings to be primarily on the first Tuesday of the month. We hope that this will allow you to take sometime to visit us.

Thank you for your time. I hope to see or hear from you this year.

Regards,

Mark

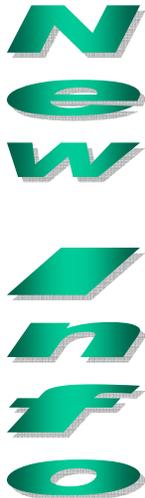
2008-2009 Presidential Award of Excellence (PAOE) Summary

Chapter #	Chapter Name	Chapter Members/ Students	Member Promotion	Student Activities	Research Promotion	CTTC	History	Chapter Operations	Chapter PAOE Totals
007	N.J.	787	-	-	-	-	-	-	-

SPEAKER BIO

Tim Fee is a Commissioning Mechanical Engineer with over 15 years experience in mechanical systems commissioning, retro-commissioning, and mechanical systems validation.

Since 1982, Mr. Fee has specialized in commissioning of high tech and specialty facilities in the areas of medical device manufacturing, automated manufacturing, pharmaceutical manufacturing and transportation. Mr. Fee's expertise encompasses HVAC systems, fire alarm/life safety systems, and building automation systems.



OCTOBER 7TH DINNER MENU

Tossed Salad
Your choice of Roast Sirloin Tip of Beef
or
Grilled Fillet of Salmon
Vegetables and Potato
Carrot Cake



SOCIETY NEWS

ASHRAE, The Green Grid Collaborate to Develop Data Center Efficiency

ATLANTA – Publications that provide improved guidance for data center design and operation will result from a new agreement between ASHRAE and The Green Grid.

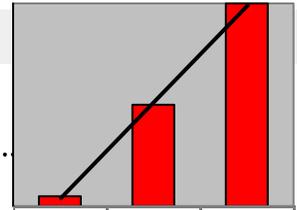
The cooperative publication agreement between ASHRAE and The Green Grid encourages the sharing of technical information, particularly guidance regarding energy efficiency, between the two groups.

With datacom center operations running 24 hours a week, 7 days a week, approximately three times the annual operating hours of most commercial properties, energy use is typically large and concentrated. As a result, issues such as sustainable design, energy efficiency and operating cost become critically important for these facilities.

"This agreement raises our collaboration efforts in the electronics industry and enhances our efforts to provide data center operators with important information to improve the energy efficiency of data centers, paralleling the work already being done by ASHRAE to improve energy efficiency in all types of buildings," said Roger Schmidt, chair of ASHRAE's technical committee on mission critical facilities, technology spaces and electronic equipment. "ASHRAE's unique membership makeup of manufacturers, designers, facility managers, architects and code officials will go a long way in assisting the member companies of The Green Grid."

"With energy shortages and rising energy costs now topping the list of concerns for large scale organizations, the movement to reduce data center and other IT energy usage patterns is quickly gaining momentum," said Geoffrey Noer, a director of The Green Grid. "We believe achieving greater IT energy efficiency is a crucial step to ensuring that growing companies can control costs while enabling future expansion."

The Green Grid, www.thegreengrid.org, is a global consortium dedicated to advancing energy efficiency in data centers and business computing ecosystems.



ASHRAE Raises More Than \$2 Million for Research Promotion

ATLANTA –Five hundred twenty-five thousand six hundred minutes. How do you measure, measure a year?

So goes the song from the hit play Rent. But at ASHRAE, we've measured the past year in dollars: \$2,081,422 to be exact. Exceeding the 2007-2008 fiscal year's \$2 million goal, ASHRAE's efforts on the chapter and Society level for raising funds for research have led to a record-breaking year.

"Surpassing our goal for Research Promotion truly signifies the dedication of our volunteer base," says Bill Harrison, ASHRAE president. "ASHRAE volunteers are the backbone of our Research Promotion program, which is a grassroots effort. I thank each of the 160 dedicated fundraising volunteers on the chapter level for helping fund our research program, which is widely respected in the building industry."

With 6,000 total donations for the year, nearly half came from individual ASHRAE member donations, with corporate donations comprising the remainder. With an increase of nearly \$300,000 over the previous year, the money raised will fund research projects beginning in the 2008-2009 fiscal year. ASHRAE conducts about \$8 million in research in any given year, with projects often spanning several years. Currently, there are 92 active research projects, including ones focusing on hospital operating room air distribution and air quality on board commercial aircraft.

Individual chapters raise funds in a variety of ways, including golf tournaments, auctions and educational seminars. ASHRAE's Region VIII, which covers Oklahoma, Texas, Arkansas and Louisiana, led the regions in total funds raised with \$375,591.

High-Performance Building Design Professional Certification

In today's buildings, implementing innovative technologies for energy-efficient and sustainable designs is essential. Increase awareness of your knowledge of environmentally friendly designs for new and existing buildings by earning the High-Performance Building Design Professional Certification from ASHRAE.

ASHRAE has developed the HBDP program in close collaboration with the Illuminating Engineering Society of North America (IESNA) and the Mechanical Contractors Association of America (MCAA) and with input from the U.S. Green Building Council (USGBC) and the Green Building Initiative (GBI). Candidates who earn the HBDP certification will have demonstrated a well-rounded understanding and knowledge of how HVAC&R design is integrated into high performing buildings to achieve the overall goal of producing a sustainable HVAC&R design.

The HBDP examination is designed to increase awareness of environmentally friendly HVAC&R design in new and existing buildings. The first administration of the HBDP examination took place on June 25 in Salt Lake City, UT, in conjunction with ASHRAE's Annual Meeting.

The examination will be available on computer at testing centers worldwide starting in August – so you'll be able to take the exam at a location, on a date, and at a time most convenient to you. Apply for the computer-based exam by reading the [HBDP Candidate Guidebook](#) and then completing [the application](#). **Although the application is now available, the exam will not be available until August.** If you apply early and ASHRAE approves your application, we will notify you as soon as the computer-based testing system is ready for you to schedule your exam.



Be Recognized as a High Performer!

Visit the ASHRAE website for more information about this certification and the Health Facility HVAC&R Design Certification. Let us know when you earn your certification and we'll publish your name in the Thermogram.



ASHRAE GreenGuide: The Design, Construction, and Operation of Sustainable Buildings, 2nd ed.

The *ASHRAE GreenGuide* provides guidance to designers of HVAC&R systems in how to participate effectively on design teams charged with producing green buildings. It also covers green design techniques applicable to related technical disciplines, such as plumbing and lighting, and it addresses how mechanical and electrical systems may interact and be influenced by architectural design. It starts with the very earliest stages of a green building design project and carries through to the resulting structure's construction, operation and maintenance, and eventual demolition.

The *ASHRAE GreenGuide* is a useful reference for architects, building owners, building managers and operators, contractors, and others in the building industry who want to understand some of the technical issues regarding high-performance design from an integrated building systems perspective. Considerable emphasis is placed on teamwork and close coordination between interested parties.

The second edition of the *ASHRAE GreenGuide* includes a new chapter on LEED guidance for mechanical engineers and a new chapter on buildings systems' impact on the local environment, both indoor and outdoor. There are 20 new *GreenTips*, including a new version of the *GreenTip* that focuses on specific building types. Some of the chapters from the first edition have been reorganized in an attempt to more accurately mirror the path that an actual project would take from pre-design to post-occupancy.

For additional information about purchasing the second edition of the *GreenGuide*, visit the ASHRAE website.

ASHRAE Installs New Officers and Directors at 2008 Annual Meeting in Salt Lake City

President: William (Bill) Harrison, president, Trane Arkansas, Little Rock, Arkansas

President-Elect: Gordon V. R. Holness, P.E., Fellow ASHRAE, Life Member, consulting engineer, Grosse Pointe Shores, Mich.

Treasurer: Lynn G. Bellenger, P.E., Fellow ASHRAE, partner, Pathfinder Engineers, Rochester, N.Y.

Vice President: Jim Fields, vice president, Superior Mechanical Services, Greensboro, N.C.

Vice President: Andrew Persily, Ph.D., Fellow ASHRAE, group leader, National Institute of Standards And Technology, Gaithersburg, Md.

Vice President: Vincent Tse, Fellow ASHRAE, managing director, Parsons Brinckerhoff (Asia), Hong Kong.

Vice President: Thomas Watson, P.E., chief engineer, McQuay International, Staunton, VA.

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ASHRAE installed the following directors to serve a three-year term from 2008-2011:

Region VII Director and Regional Chair: Pat Kempf, retired from Gulf Power Co., Pensacola, Fla.

Region VIII Director and Regional Chair: Kenneth Fulk, P.E., partner, Reed, Wells, Benson and Co., Consulting Engineers, Dallas, Texas.

Region IX Director and Regional Chair: Rich Rose, owner/general manager, Mechanical Technology, Billings, Mont.

Region X Director and Regional Chair :Jack Zarour, lead mechanical engineer, Genentech, San Francisco, Calif.

Region-at-Large Director and Regional Chair: Walid Chakroun, Ph.D., chairman, Mechanical Engineering Department, College of Engineering and Petroleum, Kuwait University, Kuwait.

Director-at-Large: Tim Dwyer, principal lecturer, London South Bank University, London.

Director-at-Large: Wayne Reedy, Fellow ASHRAE, recently retired engineering manager, Carrier Corp., Indianapolis, Indiana

Director-at-Large: Kay Thrasher, vice president, Townsend Engineering, Chattanooga, Tenn.



The New Jersey Chapter of ASHRAE belongs to Region I. Garry Myers, Region I director and Spencer Morasch, Assistant Regional Chair (ARC) & Treasurer are both members of the NJ Chapter. Also note the ASHRAE Society Treasurer Lynn Bellenger is from Region I.



SOCIETY NEWS

ASHRAE Student Membership Transfer Program: 16-40-40

What is the 16-40-40 student transfer program?

Simply put, it's the best way for ASHRAE student members to continue receiving the many member benefits of ASHRAE after finishing college.

How does it work?

- 1.) The first year out of college annual membership is still only \$16.
- 2.) Then it is only \$40 for the second year and \$40 for the third year.
- 3.) You save up to \$274! and get three years of membership for \$96. (\$16-\$40-\$40)

Save Money. Save Time. Plan Smart.



ASHRAE, Global Cold Chain Alliance Ban to Promote Mutual Refrigeration Interests

ATLANTA – Under a new agreement, ASHRAE and the Global Cold Chain Alliance will work together in a strategic partnership to advance and promote the mutual interests of refrigeration and facility professionals.

Potential collaborative efforts include development of a refrigerated warehouse guide, updating the existing refrigeration warehouse chapter and other guidance in the ASHRAE Handbook, Refrigeration, and co-sponsoring of research related to refrigeration.

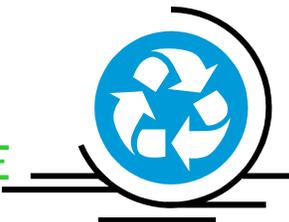
“ASHRAE’s involvement in refrigeration began more than 100 years ago, and since that time the Society has been a strong link in the cold chain through our research, education and other technical information,” ASHRAE President Bill Harrison said. “Through our agreement with the Global Cold Chain Alliance, we will strive to revitalize refrigeration to better serve the needs of the world. Working together, we must seek the best in refrigerants, efficiency, cost reduction, reliability and energy utilization.”

“This signed agreement for Strategic Partnership between the Global Cold Chain Alliance and ASHRAE is an example of the strength of an industry addressing the challenges of a safe and efficient cold chain around the world. ASHRAE members represent a key element in the success of this initiative,” Bill Hudson, president and CEO of the Global Cold Chain Alliance, said.

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.

Comprised of its Core Partners, including the International Association of Refrigerated Warehouses, the World Food Logistics Organization, the International Refrigerated Transportation Association, and the International Association for Cold Storage Construction, the Global Cold Chain Alliance (GCCA) represents all major industries engaged in temperature-controlled logistics. GCCA unites partners to facilitate communication, networking, and education for the perishable food industry. For more information, visit www.gcca.org.

REDUCE
REUSE
RECYCLE



REDUCE
REUSE
RECYCLE



SOCIETY NEWS....

ASHRAE Publishes New Guideline on Commissioning Process

Specific tasks to successfully implement the commissioning process for HVAC&R systems and assemblies are featured in a new guideline from ASHRAE.

ASHRAE Guideline 1.1, *HVAC&R Technical Requirements for the Commissioning Process*, describes the technical requirements for the application of the commissioning process described in ASHRAE Guideline 0-2005 that will verify that the HVAC&R systems achieve the owner's project requirements.

"The quality-oriented process outlined in the guideline provides improved quality and greater cost effectiveness compared to commissioning as currently practiced by many commissioning providers," Walter Grondzik, secretary of the committee that wrote the guideline, said. "One problem with the current practice is that 100 percent checking is performed during the construction phase of the project delivery process, and this checking usually focuses on limited or targeted systems. Quality-based sampling is not used, and so the current approach has limited quality-based random inspection procedures."

The guideline contains more than 100 pages of annexes, providing concrete examples of forms and documents to assist the commissioning team and owners in their efforts to deliver quality buildings that meet the owner's project requirements. Twenty-five sample checklists, covering pre-design, design and construction, are included along with a sample owner's project requirements verification test procedure.

The cost of ASHRAE Guideline 1.1, *HVAC&R Technical Requirements for the Commissioning Process*, is \$69 (\$55, ASHRAE members).

To order, contact ASHRAE Customer Service at 1-800-527-4723 or visit at www.ashrae.org/ bookstore.



Why should you use the commissioning process?

Commissioning a building (and systems within a building) helps ensure that:

- The Owner's project requirements are complete, feasible and well-documented
- The design team's solutions adequately address the owner's requirements
- Construction is complete and of appropriate quality
- The Owner receives the training and project documentation to successfully operate the project
- The many players in the project acquisition process can cooperate for the common good



REGIONAL CHAPTER ANNOUNCEMENT

Philadelphia Chapter Meeting

Date: Thursday, September 18, 2008 held at Battleship New Jersey

Speaker: Bill Harrison, President ASHRAE

Topic: Maintain to Sustain

For additional details, visit: www.ashrae-phila.org



If you would like to submit project or technical articles for the *THERMOGRAM*, please contact Jori Fahrenfeld @ 609-520-1600 or via email Jori.Fahrenfeld@Emerson.com for further details.



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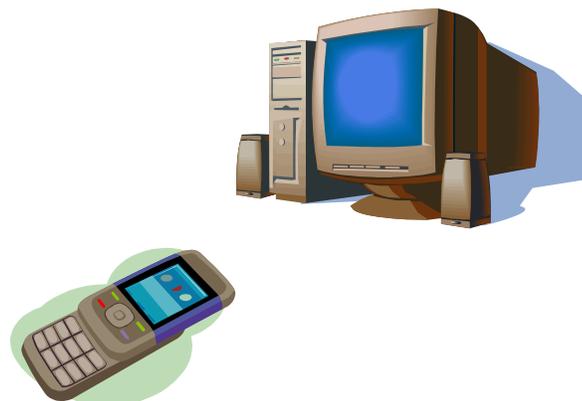
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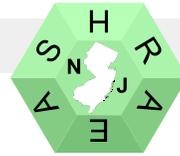
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