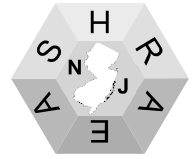




THERMOGRAM



The New Jersey Chapter of ASHRAE Newsletter

WWW. NJASHRAE.COM

OCTOBER 2005

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NEWSLETTER ADS

OPEN

NEWSLETTER EDITOR

MARK RICHTER P.E.
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NOVEMBER 3, 2005
SHERATON - WOODBRIDGE
ROUTE 1 AT GILL LANE, ISELIN, NJ

**COST \$50.00 MEMBERS, \$55.00 GUESTS,
& \$5.00 STUDENT**

**RSVP TO NJASHRAE.COM OR CALL 1-800-927-7234
NO LATER THAN NOVEMBER 1ST**

5:45 COCKTAIL HOUR

6:45 DINNER AND SPEAKER

**SPEAKER: EDWARD EICHEN, PRESIDENT
OAK ENVIRONMENTAL GROUP**

TOPIC:

**“INDOOR ENVIRONMENTAL
QUALITY”**

PRESENTATION WILL COVER BUILDING INDOOR ENVIRONMENTAL ISSUES WITH EMPHASIS ON MOLD CONTAMINATION.

**THIS DINNER SESSION IS CURRENTLY UNDER REVIEW FOR
ONE (1) PROFESSIONAL DEVELOPMENT HOUR**

**PLEASE VISIT OUR NEW WEBSITE NJASHRAE.COM FOR
THE LATEST CHAPTER NEWS.**

**COMMITTEES
(CONTINUED)**

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THE PRESIDENT'S MESSAGE
Principals of Engineering Firms In NJ

As a principal in a firm that designs HVAC systems I'm sure you recognize the role that ASHRAE plays in our industry. The standards, design guidelines, and research provided by ASHRAE form the basis of our practice. These standards, guidelines and research have not been created in a vacuum. They are the outgrowth of feedback, ideas, requests for information, and needs of our fellow practitioners. A significant part of that process is the interaction of our members at society meetings at the local and national level. Without that interaction the process weakens.

I'm writing to ask for your assistance in promoting the participation of your employees and fellow engineers at the local chapter monthly meetings. As a member of the design community, each of us has the responsibility to participate in the interactive process. We learn together. Some people may think that they have nothing to contribute. Actually, the opposite is true. Everyone can and does contribute. By asking questions or indicating that they "don't know", we learn where knowledge gaps exist and can work to fill those gaps.

The leadership of the New Jersey chapter would like to make the monthly meetings more attractive to our membership – programs geared to their educational needs, a venue to meet and interact with other industry members, roundtable discussion opportunities, and to learn about new ideas, etc. To do that we need feedback from our members and attendance at the monthly meetings.

We're asking you to encourage your employees to attend the monthly meetings by providing incentives – e.g. paying for meeting dues, time off (~ 1hr) to leave the office early to get to the meeting, paying for gas to get there, "honorable mention" for those who attend regularly, etc.

An additional incentive which may be attractive to your "PE's" is PDH points for attendance at qualified presentations. While New Jersey does not presently require PDH points for license renewal, NY State does. Attendance at our qualified meetings is one way to accumulate those points.

We'd appreciate you're feedback to this request. What can we do to help make the local NJ chapter of ASHRAE more relevant to your practice?

Yours truly,
Russ Graham, *Chapter President*

Yours truly,
Kal Feinberg, *Bd of Governors*

**NJ ASHRAE
2005 – 2006
DINNER MEETING SCHEDULE***

**DECEMBER 8TH
DAVID GOLD, VITEC CORPORATION
DESSICANT DEHUMIDIFICATION**

**JANUARY 12TH
JOINT MEETING WITH MCA**

**FEBRUARY 2ND
MR. MATTHEW MORELLO P.E.,
LEWIS GOODFRIEND & ASSOC.
NOISE & VIBRATION**

**MARCH 2ND
JOINT MEETING WITH IESNA**

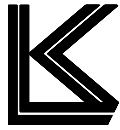
**APRIL 6TH
SPEAKER TO BE ANNOUNCED
SYSTEM INTEGRATION**

**MAY 4TH
TO BE DETERMINED**

**JUNE 8TH
SPOUSE'S NIGHT**

** Speakers and topics subject to change. Refer to monthly newsletter announcements for available PDH credits for dinner speaking sessions.*

HELP WANTED



KALLEN & LEMELSON CONSULTING ENGINEERS, LLP

MECHANICAL • ELECTRICAL • PLUMBING • FIRE PROTECTION

We are presently seeking a **Senior Level Mechanical Engineer** for a key position on interesting and challenging projects.

The successful candidate should have the following experience:

- Design of HVAC systems for institutional and commercial buildings (preferably 10+ years of design experience)
- Project Management experience, with good communication and organizational skills
- Degreed engineers with P.E. licenses are preferred, although not mandatory

This position comes with unlimited growth and partnership potential.

We are also seeking qualified Designers and CAD Draftspersons for non-management positions, with HVAC, plumbing and/or fire protection experience.

If you meet the above qualifications, please forward your resume including cover letter and salary requirements to:

Kallen & Lemelson, LLP
520 Eighth Avenue, 17th Floor
New York, NY 10018
ATT: Gloria McIntosh
Email: gmcintosh@klengineers.com
K&L is an Equal Opportunity Employer

HVAC Manufacturers Representative:

Long Island based HVAC/Plumbing manufacturers' representative is opening an office in northern N.J. and seeks experienced 3-Phase ups/switchgear sales people to cover northern New Jersey. Candidates must possess 5 to 10 years experience in the sales/specification of 3-phase ups, switch gear, gensets, racks, PDU's CRAC's etc. Must possess a strong customer base of engineers, contractors VAR's and end-users.

If you are looking for the career opportunity of a lifetime with excellent salary, commission and benefit package look no further. Extensive factory training included.

Frank D. Morgigno
Applied Technologies of NY, Inc.
90 Plant Ave, Suite 110
Hauppauge, NY 11788
Tel:(631) 331-0215



Schoor DePalma is looking for a seasoned HVAC designer with mechanical design experience in the field of HVAC. The individual should possess strong Communication and Computer-aided Design experience. Contact Mark Richter P.E. at (732)577-9000 ext 1277 or email resume to MRichter@schoordepalma.com

Schoor DePalma, a leading engineering and consulting firm in the region, offers a broad range of consulting services for public and private clients from 11 office locations throughout New Jersey, Pennsylvania and New York. Our award-winning company provides transportation services, land development planning, public works services, environmental services and building services.



**Four Years
In a Row!**

Your
award winning
bottom line results partner.



HELP WANTED

Drafter/Estimator/Designer

A well established New Jersey family-owned Design-Build Mechanical Contracting & Service company is seeking a highly qualified Drafter / Designer / Estimator to join their expanding commercial and institutional contracting business.

Job Purpose:

Candidate will work closely with owners in preparing mechanical drawings, estimating material/equipment/sub-contracting costs, and designing new construction projects.

Minimal Requirements:

10-15 years in commercial/industrial HVAC industry, non-smoker, college degree, experience with CADD, project design, estimating & organizational skills for multiple projects, ability to work independently meeting specific time deadlines.

Duties:

- Prepares rough sketches and final as-built drawings.
- Onsite observations to validate mechanical layout.
- Organize and prioritize multiple projects.
- Solicit vendors and accurately make comparisons for material cost take-offs.
- Design drawings for new design/build projects.
- Maintains reliable data base on current and future work.

Skills/Qualifications:

CADD, Microsoft office suite, scheduling, self-motivated, vendor relationships, deadline-oriented, U.S. citizen, excellent teamwork, focused concentration, emotionally resilient, pleasant attitude.

Salary/Benefits: Competitive salary, comprehensive medical/dental/401k plan

Ken Celiano, Psy.D.
Dir. Personnel & Organizational Development
AJ Celiano, Inc. 460 Ludlow Ave
Cranford, NJ 07016 847-338-2199 (mobile)
www.ajceliano.com - kceliano@ajceliano.com

**If you wish to contribute articles in this years 2005-2006 issues of the
Thermogram**

E-mail articles to: MRichter@Schoordepalma.com or fax article to 732-431-9428

Reminder

Go to www.njashrae.com to update your personal information. Keeping your information current helps us to find you. Please add e-mail, phone number, fax number, address correction, etc.

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SOCIETY NEWS....

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ASHRAE Research Plan Provides Guide for a Sustainable Future

ATLANTA - Providing navigation for a sustainable future is the goal of a new research strategic plan developed by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

The plan outlines ASHRAE's research goals for the next five years. It centers on sustainability, which is defined as "the concept of maximizing the effectiveness of resource use while minimizing the impact of that use on the environment."

"Research and technology are the foundation of ASHRAE on which everything else is built," said John Mitchell, Ph.D., P.E., chair of the Research Advisory Panel that developed the plan. "With issues related to energy conservation, refrigeration and indoor air quality facing our industry, our foundation must remain strong."

The plan contains goals in five targeted areas. These include:

Energy and Resources

Provide guidance on techniques to working toward achieving net zero-energy use by 2015, meaning buildings that consume equal or less energy than they produce on an annual basis.

Produce by 2015 new residential and light commercial buildings that have 70 percent less energy use than buildings built at the turn of the millennium according to ASHRAE Standard 90.2, Energy-Efficient Design of Low-Rise Residential Buildings.

Optimize and make consistent ASHRAE Standards 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings, 62.1, Ventilation for Acceptable Indoor Air Quality, and 55, Thermal Environmental Conditions for Human Occupancy, to achieve measured and verified high system energy efficiency with high indoor environmental quality (IEQ) for indoor built environments.

Indoor Environmental Quality

Make improvements in occupant health and comfort that can yield a 20 percent increase in productivity by 2015.

Provide an optimal indoor environment for buildings, vehicles and facilities with respect to comfort, productivity, health and safety.

Provide better understanding of how contagious viruses are transmitted in an indoor environment and develop remediation techniques and equipment to minimize exposure.

Tools and Applications

Develop more effective tools that will improve the productivity of the design process by 25 percent by 2015.

Develop dual path standards where paths are prescriptive based and performance based.

Develop a measurement-based rating system to establish the environmental performance of a building and its system.

Provide design guidance for buildings and systems to address the past and expected change in climatic conditions.

Equipment, Components and Materials

Establish techniques to improve the energy efficiency and reliability of heating, ventilating, cooling and refrigeration system components.

Improve performance and reliability and minimize the environmental impacts of working fluids and materials.

Advance ASHRAE's role in the safety and security of food distribution.

Develop techniques that reduce the installed energy use of HVAC&R system auxiliary equipment by 50 percent by 2015.

Education and Outreach

Make the results of ASHRAE sponsored and cooperative research available to the technical community.

Ensure that ASHRAE research has an international impact.

To view the plan or for more information on ASHRAE's research program, visit www.ashrae.org/research.

ASHRAE, founded in 1894, is an international organization of 55,000 persons. Its sole objective is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve the evolving needs of the public.

ASHRAE Releases Proposed Cabin Air Standard for Public Comment

ATLANTA - A proposed standard that will define air quality and comfort levels on airplanes has moved one step closer to publication.

ASHRAE's proposed standard 161P, Air Quality within Commercial Aircraft, is open for public comment until Nov. 7, 2005.

Also open for review until that date is the proposed companion guideline to the standard, Guideline 28P, Air Quality Within Commercial Aircraft. It provides supplemental information on air quality in air-carrier aircraft and on measurement and testing related to aircraft air quality.

The proposed standard would apply to commercial passenger air-carrier aircraft carrying 20 or more passengers. It is intended to apply to all phases of flight operations and to ground operations whenever the aircraft is occupied by passengers or crew members.

No such standard encompassing ventilation, thermal comfort and filtration currently exists for aircraft.

"The environment aboard commercial aircraft is different than that found in other spaces commonly occupied by people," Byron Jones, Ph.D., chair of the 161 committee, said. "While aircraft are operated with the comfort of passengers and crew in mind, their safety and health must always be paramount."

Among the reasons aircraft cabin environments are unique are occupant activity levels range from almost completely sedentary (passengers) to active (flight attendants); passengers and crew make up a wide cross section of the general population; and aircraft must be regarded as both a public place (passengers) and a workplace (crew).

The proposed standard requires a minimum total air supply of 15 cubic feet per minute (cfm) and recommends 20 cfm per person. The requirement may be met with a mixture of outside air and filtered recirculated air or with 100 percent outside air. A minimum of 7.5 cfm per person of outside air is required.

In addition to ventilation requirements, the proposed standard addresses supply air quality and control and monitoring of contaminants to further ensure satisfactory air quality is maintained, according to Jones. Requirements for comfort factors, such as rate of change of cabin pressure, air temperatures and surface temperatures, and minimum and maximum air velocities, also are included.

An informative appendix supplements the requirements of the standard with background information on a variety of potential air contaminants, methods of measurements, references to standards and guidelines of allowable levels, and data for levels measured on aircraft.

Drafts of ASHRAE's proposed standards and guidelines are available only during their related public review periods. To obtain electronic draft versions of the Standard 161P or Guideline 28 during the comment periods, log on to ASHRAE Online at www.ashrae.org/standards.

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Addenda Availability Changes

ASHRAE Implements New Process to Update Code-Intended Standards

ATLANTA - As part of ongoing efforts to increase use of its standards, the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has announced a major change to availability of addenda to code-intended standards.

The move puts ASHRAE in line with issuance of model building codes.

In the past, addenda for code-intended standards on continuous maintenance were posted individually on ASHRAE.org after being approved by the Board of Directors for publication. Now, Board-approved addenda to code-intended standards will be published in a supplement. The supplements for each standard will be published on a regular schedule halfway between the three year publication of each standard. The addenda also will be incorporated into each standard when it is reissued after its last publication.

Richard Hermans, P.E., chair of ASHRAE's Standards Committee, acknowledges the change is significant.

"Our whole approach to how we relate to the building code industry is changing," Hermans said. "We are seeking more involvement with the model code development community to assist us in our code proposals. We are responding to member concerns over the cost of keeping up with our code-intended standards. By cost, I am not referring to the dollars spent for obtaining the updated documents but rather the cost in time to train employees about the new requirements contained in addenda. And we are aligning our release of certain standards to coincide with the model code schedules for code change proposals."

All of these actions point to a policy of releasing addenda on a predictable schedule spaced out over years, he said. "In this way, we will develop our code-intended standards in the same way that groups such as the International Code Council and the National Fire Protection Association, both of which incorporate ASHRAE standards, maintain their model codes," he said.

The change applies only to code-intended standards that are on continuous maintenance. These are:

- Standard 15, Safety Standard for Refrigeration Systems;
- Standard 34, Designation and Safety Classification of Refrigerants;
- Standard 52.2, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size;
- Standard 62.1, Ventilation and Acceptable Indoor Air Quality in Commercial, Institutional, Industrial and High-Rise Residential Buildings;
- Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings;
- Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings;
- Standard 90.2, Energy Efficient Design of Low-Rise Residential Buildings;
- Standard 140, Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs.

The first supplements for standards published will be available in March 2006.

For more information on ASHRAE's work in standards, visit www.ashrae.org/standards.

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**Comment on Proposed ASHRAE Standard
Proper Ventilation Integral Part of Patient Care**

ATLANTA - Just as the right dose of medication can improve their health, proper ventilation is an integral part of patients' well-being in health care facilities.

Requirements to ensure high quality ventilation can be found in ASHRAE's proposed standard 170P, Ventilation of Health Care Facilities. The proposed standard is open for public comment from Sept. 23- Nov. 7, 2005. The standard is being developed by ASHRAE and the American Society for Health Care Engineering.

"Without high quality ventilation, patients, health care workers and visitors can become infected through normal respiration of particles in the air," Richard Hermans, P.E., chair of the committee writing the standard, said. "Poorly ventilated health care facilities are places where the likelihood of pathogenic particles occurring in the air is quite high. Because such pathogens can be found everywhere in health care facilities and because patients are susceptible to them, additional care should be taken in the design of ventilation systems."

The proposed standard will define requirements for ventilation system design intended to provide environmental control for comfort, as well as infection and odor control.

It addresses systems and equipment, space ventilation for a variety of areas in health care facilities, including airborne infection isolation rooms, critical care units, burn units, surgery rooms, and Class B and C operating rooms, and planning, construction and system startup.

Drafts of ASHRAE's proposed standards and guidelines are available only during their related public review periods. To obtain electronic draft versions of the Standard 170P during the comment periods, visit ASHRAE.org at www.ashrae.org/standards.

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