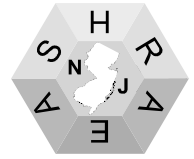




# THERMOGRAM



The New Jersey Chapter of ASHRAE Newsletter

WWW. NJASHRAE.COM

NOVEMBER 2005

1-(800)-927-7234

## CHAPTER OFFICERS

### PRESIDENT

RUSS GRAHAM  
908-663-2180

### PRESIDENT - ELECT

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856-795-2224

### VICE-PRESIDENT

PETER FRANGISKOU P.E.  
201-945-9999

### TREASURER

MARK RICHTER P.E.  
732-577-9000

### SECRETARY

MARK MCLEOD  
973-633-7730

## BD. OF GOVERNORS

LINDA CAROLAN  
908-663-2180  
RUTH GIACOBBE  
732-968-4850  
YOGESH SHAH P.E.  
201-447-6400  
SPENCER MORASCH  
732-212-4133  
KAL FEINBERG, P.E.  
201-837-0856

## COMMITTEES

### MEMBERSHIP

BRIAN MATHIAS  
973.276.2734

### RESEARCH PROMOTION

YOGESH SHAH P.E.  
201-447-6400

### STUDENT ACTIVITIES

PETER FRANGISKOU P.E.  
201-945-9999

### REFRIGERATION

JIM CASEY

### TECHNICAL, ENERGY & GOV. (TEGA)

JUAN MURILLO  
609-860-6600

### NEWSLETTER ADS

OPEN

### NEWSLETTER EDITOR

MARK RICHTER P.E.  
732-577-9000

**DECEMBER 8, 2005**  
**SHERATON - WOODBRIDGE**  
**ROUTE 1 AT GILL LANE, ISELIN, NJ**

## RESEARCH PROMOTION NIGHT

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

**RSVP TO NJASHRAE.COM OR CALL 1-800-927-7234  
NO LATER THAN DECEMBER 7TH**

**5:45 COCKTAIL HOUR**  
COCKTAIL HOUR SPONSORED BY  
VITEC CORPORATION

## 6:45 DINNER AND SPEAKER

**SPEAKER: DAVID GOLD**  
**VITEC CORPORATION**

### TOPIC:

**“DESSICANT DEHUMIDIFICATION”**

*PRESENTATION WILL COVER APPLICATIONS AND ECONOMIC OF  
DESSICANT DEHUMIDIFICATION IN BUILDING HVAC SYSTEMS.*

## Support your N.J. Devils

The Chapter is arranging a Social Event to see the NJ Devils Game on Saturday January 21st at the Meadowlands Arena. Please contact Chapter Administrator or Program Committee Chair if interested in attending. Do not miss a chance to see the Devils at Discount \$36 rate per person on Devils Ski Cap Giveaway Day!!!!

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

**COMMITTEES  
(CONTINUED)**

<b>NOMINATING</b>	LINDA CAROLAN 908-663-2180
<b>PROGRAM</b>	JORI FAHRENFELD 609-243-9286
<b>SEMINARS</b>	MARK RICHTER P.E. 732-577-9000
<b>ROSTER/DIRECTORY</b>	BRIAN MATHIAS 973-276-2734
<b>TECHNICAL SESSIONS</b>	JORI FAHRENFELD 856-795-2224
<b>SCHOLARSHIP</b>	OPEN
<b>CRC 2005</b>	MIKE CASOLARI (609)860-6600
<b>SPECIAL EVENTS/GOLF OUTING</b>	LINDA CAROLAN 908-663-2180
<b>AUDIT</b>	MIKE GARBARINI 732-695-5077
<b>BUDGET</b>	MARK RICHTER 732-577-9000
<b>HISTORIAN</b>	BOB DALY
<b>ATTENDANCE/RECEPTION</b>	MARK MCLEOD 973-633-7730
<b>HONORS &amp; AWARDS</b>	JEFFREY GRANT 908-272-6755
<b>WEB PAGE DESIGN</b>	OPEN
<b>CHAPTER BYLAWS</b>	SPENCER MORASCH 732-212-4133

**N.J. ASHRAE CHAPTER**  
**P.O. Box #3, MIDDLESEX, N.J.**  
**ADMINISTRATOR**  
 RUTH GIACOBBE  
 1-(800)-927-7234

E-MAIL - NJ.ASHRAE@VERIZON.NET

**WWW.NJASHRAE.COM**

**ASHRAE ATLANTA**  
**TOLL FREE MEMBERSHIP**  
**NUMBER**  
**1-(800)-527-4723**

**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\***

**JANUARY 11<sup>TH</sup>**

**DATE TO BE DETERMINED  
JOINT MEETING WITH MCA**

**FEBRUARY 2<sup>ND</sup>**

**MEMBERSHIP AND HISTORY NIGHT**

**MR. MATTHEW MURELLO P.E.,  
LEWIS GOODFRIEND & ASSOC.  
NOISE & VIBRATION**

**MARCH 2<sup>ND</sup>**

**JOINT MEETING WITH USGBC**

**APRIL 6<sup>TH</sup>**

**STUDENT NIGHT  
SPEAKER TO BE ANNOUNCED  
SYSTEM INTEGRATION**

**MAY 4<sup>TH</sup>**

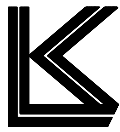
**INSTALLATION OF OFFICERS AND BOARD OF  
GOVERNORS  
FAN AND PUMP DRIVES AND VFDS**

**JUNE 8<sup>TH</sup>**

**SPOUSE'S NIGHT**

*\* Speakers and topics subject to change. Refer to monthly newsletter announcements*

## 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, 17<sup>th</sup> Floor  
New York, NY 10018  
ATT: Gloria McIntosh  
Email: [gmcintosh@klengineers.com](mailto: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 HVAC Engineer with 3– 5 years 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](mailto: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](http://www.ajceliano.com) - [kceliano@ajceliano.com](mailto: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](http://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.**

**Statements made in this publication are not expressions of the Society or of the Chapter and may not be reproduced without permission of the chapter.**

**SOCIETY NEWS...**

Contact: Jodi Dunlop  
Public Relations  
678-539-1140  
jdunlop@ashrae.org  
1791 Tullie Circle NE  
Atlanta, GA 30329

**User's Manual Provides Better Understanding of ASHRAE 62.1**

ATLANTA - A new user's manual provides users with a better understanding of the design, installation and operation requirements in ASHRAE's ventilation standard.

The Standard 62.1 User's Manual explains the requirements of ANSI/ASHRAE Standard 62.1-2004, Ventilation for Acceptable Indoor Air Quality, and contains numerous examples of their application in an easy-to-follow question and answer format.

"Because the standard is written in code-intended language, such material could not be included in the standard itself, so the manual helps users better understand the intent and apply it to their work," Dennis Stanke, chair of the Standard 62.1 committee, said. "It helps users understand what Standard 62.1 requires and how those requirements can be met. It's a document that designers have needed for many years and will find useful for many years to come."

The manual includes a CD containing a spreadsheet to assist in the standard's new ventilation rate procedure calculations.

The manual was developed through ASHRAE research and partially funded by the National Institute of Standards and Technology, the Air-Conditioning and Refrigeration Institute and the U.S. Green Building Council.

The cost of the Standard 62.1 User's Manual is \$55 (\$44, ASHRAE members).

To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, by mail at 1791 Tullie Circle NE, Atlanta, GA 30329, or visit the ASHRAE.org Bookstore at [www.ashrae.org](http://www.ashrae.org).

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.

Contact: Jodi Dunlop  
Public Relations  
678-539-1140  
jdunlop@ashrae.org  
1791 Tullie Circle NE  
Atlanta, GA 30329  
jdunlop@ashrae.org

### **Input Sought in Proposed ASHRAE Risk Management Guideline**

CHICAGO - Guidance for the practical evaluation, design and implementation of measures to reduce multiple risks in buildings will be provided through a proposed guideline from ASHRAE.

"We want to provide practitioners with a voluntary process by which they can perform vulnerability assessments," George Glavis, chair of the committee writing the guideline. "Based on the results of these assessments, practitioners can implement the guideline's recommended protective measures that would benefit occupants during normal operations as well as during emergencies."

Input into ASHRAE's proposed Guideline 29P, Guideline for Risk Management of Public Health and Safety in Buildings, will be sought at a forum at the Society's 2006 Winter Meeting, Jan. 21-25, Chicago.

What Guidance Should ASHRAE Provide for Reducing Multi-Hazard Vulnerability will be held from 9-9:50 a.m. Sunday, Jan.

22. Expedited development of the guideline is being funded in part through a grant from the Alfred P. Sloan Foundation.

It will build on an earlier report from ASHRAE that addresses health, safety and environmental security under extraordinary incidents, according to Glavis, lead mechanical engineer for the State Department Overseas Building Operations.

The proposed guideline will contain recommendations for management of the risk of extraordinary incidents in buildings, including fire, seismic events, chemical and biological releases, blast and other extraordinary hazards. It will address aspects of building performance that affect occupant health and safety, including egress, chemical, biological and radiological protection, fire protection, smoke removal, filtration, air quality, and building envelope.

Homeland security also will be discussed in a forum that questions how hybrid 100 percent outside air systems improve homeland security and sustainability. The need to develop effective HVAC&R strategies to protect building occupants against the threat of chemical-biological warfare (CBW) is often seen as having a priority over making those same buildings

energy efficient. The forum examines whether hybrid 100 percent outside air systems can reduce the threat of CBW without paying an energy penalty to do so. It takes place at 9 a.m. Wednesday, Jan. 25.

A seminar examines analysis, design and operation of HVAC&R and supporting systems as a way to protect from natural or intentional events. It is held from 10:15 a.m.-12:15 p.m. Wednesday, Jan. 25.

For more information on ASHRAE's work in homeland security, visit [www.ashrae.org/homelandsecurity](http://www.ashrae.org/homelandsecurity).

Held with the ASHRAE Winter Meeting is the ASHRAE co-sponsored International Air-Conditioning, Heating, Refrigerating Exposition, Jan. 23-25, at McCormick Place. For more information, contact International Exposition Company at 203-221-9232, [info@ahrexpo.com](mailto:info@ahrexpo.com), [www.ahrexpo.com](http://www.ahrexpo.com).

Registration for the 2006 ASHRAE Winter Meeting is \$635 (\$375, ASHRAE member) prior to Dec. 2. After Dec. 2, the registration fee will be \$750 (\$490, ASHRAE member). For more information or to register, visit [www.ashrae.org/chicago](http://www.ashrae.org/chicago). Johnson Controls is a platinum sponsor of the meeting.

Contact: Jodi Dunlop  
Public Relations  
678-539-1140  
jdunlop@ashrae.org  
1791 Tullie Circle NE  
Atlanta, GA 30329

#### **LEED Credits Now Available for Energy Design Guide Use**

ATLANTA - Designers can now earn credit under Leadership in Energy and Environmental Design (LEED) certification for use of the Advanced Energy Design Guide for Small Office Buildings.

The inclusion of the design guide will help designers achieve LEED certification, offered by the U.S. Green Building Council.

"The small office design guide clearly meets the overall goal of LEED in that it accelerates the development and implementation of green building practices," Lee Burgett, P.E., ASHRAE president, said. "The design guide series is intended to provide prescriptive guidance to bring us 30 percent closer to a net zero-energy building, meaning those that use equal or less energy than they produce on an annual basis. Our goal is to provide the technical resources needed to assist the HVAC&R industry in creating the most sustainable buildings possible."

Specifically, the design guide has been added in LEED-NC 2.1 and the upcoming LEED-NC 2.2 as a prescriptive compliance path to achieve LEED-NC Energy and Atmosphere Credit 1, Optimize Energy Performance (EAcl), credit.

LEED-NC EAcl is intended to reduce environmental impacts associated with excessive energy use by awarding LEED credit to buildings that achieve increasing levels of energy performance above ANSI/ASHRAE/IESNA Standard 90.1-1999.

The guide establishes a previously unavailable prescriptive compliance path and enables small office design teams to earn LEED-NC EAcl points without incurring the costs associated with whole building energy simulation. Small office buildings that successfully demonstrate compliance with the guide will be awarded 4 LEED EAcl points.

The guide was developed by a committee representing a diverse group of energy professionals drawn from ASHRAE, the American Institute of Architects (AIA), the New Buildings Institute (NBI), the Illuminating Engineering Society of North America (IESNA) and the Department of Energy (DOE).

The cost of the Advanced Energy Design Guide for Small Office Buildings is \$59 (\$47, ASHRAE member).

To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), at 1791 Tullie Circle NE, Atlanta, GA 30329, or visit the ASHRAE.org Bookstore at [www.ashrae.org](http://www.ashrae.org).

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.

Contact: Jodi Dunlop  
Public Relations  
678-539-1140  
jdunlop@ashrae.org  
1791 Tullie Circle NE  
Atlanta, GA 30329

### **ASHRAE Energy Design Guide Earns Award from Green Building Council**

ATLANTA - A guide written to make sustainable design easier has earned a leadership award from the U.S. Green Building Council (USGBC).

The Advanced Energy Design Guide for Small Office Buildings is a recipient of a USGBC 2005 Leadership Award, which recognizes outstanding individuals and organizations that signify vision, leadership and commitment to the evolution of green building design and construction.

The guide received the Research Award for being "a significant contribution helping to advance green building." The guide was developed by a committee representing a diverse group of energy professionals drawn from the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), the American Institute of Architects (AIA), the New Buildings Institute (NBI), the Illuminating Engineering Society of North America (IESNA) and the Department of Energy (DOE).

"The Advanced Energy Design Guide developed by ASHRAE and its partner organizations is another tool in the 'green' toolkit, which users need to build a sustainable future," ASHRAE president Lee Burgett, P.E., said. "We thank the USGBC for recognizing our efforts."

"The U.S. Green Building Council's Leadership Awards are presented for leadership in promoting green building design and construction," Rick Fedrizzi, president, CEO and founding chair, USGBC, said. "The Advanced Energy Design Guide for Small Office Buildings is a seminal resource for the green building industry, and is highly deserving of this prestigious award."

The award is the second for the book, which earlier this year was recognized by the Alliance to Save Energy as part of its annual Stars of Energy Efficiency Awards program. The Alliance recognized ASHRAE for its "exemplary illustration of and commitment to energy-efficient policy and practice."

The guide provides a sensible, hands-on approach to design through use of products that are practical and commercially available as "off-the-shelf" technology from major manufacturers.

ASHRAE, AIA, IESNA and the U.S. Green Building Council are currently developing the second guide in the series, which will focus on small retail/mercantile spaces.

The cost of the Advanced Energy Design Guide for Small Office Buildings is \$59 (\$47, ASHRAE member).

To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), at 1791 Tullie Circle NE, Atlanta, GA 30329, or visit the ASHRAE.org Bookstore at [www.ashrae.org](http://www.ashrae.org).

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