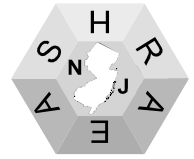




THERMOGRAM



The New Jersey Chapter of ASHRAE Newsletter

WWW. NJASHRAE.COM

MAY 2006

1-(800)-927-7234

CHAPTER OFFICERS

PRESIDENT

RUSS GRAHAM
908-663-2180

PRESIDENT - ELECT

JORI FAHRENFELD
856-795-2224

VICE-PRESIDENT

PETER FRANGISKOU P.E.
201-945-9999

TREASURER

MARK RICHTER P.E.
212-354-5656

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.

MAY 4, 2006

WOODBIDGE SHERATON
ROUTE 1, GILL LANE, ISELIN, NJ

SCHOLARSHIP AWARD NIGHT

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

RSVP TO NJASHRAE.COM
OR CALL 1-800-927-7234
NO LATER THAN MAY 3RD

4:30 BOARD OF GOVERNORS MEETING

5:30 GUEST REGISTRATION / COCKTAIL HOUR

6:30 CHAPTER ANNOUNCEMENTS

7:15 DINNER AND SPEAKER

SPEAKER:

MR. ANTHONY PALUCCI P.E.
SALES MANAGER ANNEXAIR

DINNER TOPIC:

“APPLYING ENERGY RECOVERY”

General overview of air-to-air energy recovery devices including heat wheels, fixed plates and heat pipe technologies. Examples of applications, payback analysis, and LEED Compliance will be presented.

1.0 PDH CREDIT AVAILABLE

**CONGRATULATIONSTO NJ CHAPTER OF ASHRAE NOMINATIONS
FOR 2006-2007 NEW OFFICERS AND BOARD OF GOVERNORS.**

**COMMITTEES
(CONTINUED)**

NOMINATING	LINDA CAROLAN 908-663-2180
PROGRAM	JORI FAHRENFELD 856-795-2224
SEMINARS	MARK RICHTER P.E. 212-354-5656
ROSTER/DIRECTORY	BRIAN MATHIAS 973-276-2734
TECHNICAL SESSIONS	JORI FAHRENFELD 856-795-2224
SCHOLARSHIP	OPEN
CRC 2005	MIKE CASOLARI (609)860-6600
SPECIAL EVENTS/GOLF OUTING	LINDA CAROLAN 908-663-2180
AUDIT	MIKE GARBARINI 732-695-5077
BUDGET	MARK RICHTER 212-354-5656
HISTORIAN	BOB DALY
ATTENDANCE/RECEPTION	MARK MCLEOD 973-633-7730
HONORS & AWARDS	JEFFREY GRANT 908-272-6755
WEB PAGE DESIGN	OPEN
CHAPTER BYLAWS	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**

• **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.

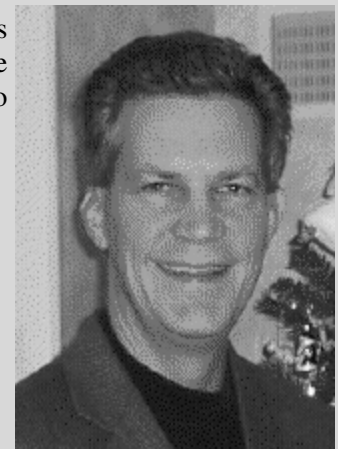
The leadership of the New Jersey chapter would like to make the monthly meetings more attractive to our membership – programs geared to their educational needs, a venue to meet and interact with other industry members, roundtable discussion opportunities, and to learn about new ideas, etc. To do that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



**NJ ASHRAE
2005 – 2006
JUNE 1ST DINNER MEETING
SPOUSE'S NIGHT**

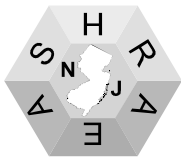
ASHRAE, like most professional engineering associations, is always reaching out to K-12 students to introduce them to technical ideas in an effort to encourage them to consider engineering as their career choice. Where possible, programs are developed to attract the student's interest in a technical area at the Society and Chapter level. Therefore, we have invited the Hillsborough Roboraiders to present their winning robots and explain their planning, designing and building methods, at our June 1st meeting. Please plan to attend to recognize their efforts.

COMING JUNE 1st:

**The Hillsborough High School
champion robotics team,
*The Roboraiders***

They are "Potential Engineers" who have designed, built and demonstrated their robot. They will bring a robot and discuss and demonstrate it to the group. This team has won an Engineering Inspiration Award and will be competing in the Robotics International Competition in Atlanta the end of April.

Robotics is a team sport that doesn't require athletic ability but still gives students an opportunity to compete.



**NJ ASHRAE
2006 – 2007 OFFICER & BOARD OF GOVERNORS
ELECTIONS**

OFFICERS

**PRESIDENT.....Ms. JORI FAHRENFELD
PRESIDENT-ELECT.....MR. PETER FRANGISKOU P.E.
VICE-PRESIDENT.....MR. MARK RICHTER P.E.
TREASURER.....MR. MARK MCLEOD
SECRETARY.....OPEN**

BOARD OF GOVERNORS

Ms. LINDA CAROLAN
Ms. RUTH GIACOBBE
MR. YOGESH SHAH P.E.
MR. RUSS GRAHAM

HELP WANTED

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.

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

HELP WANTED

WANTED – TOP NOTCH ENGINEERS / TECHNICIANS!!

Specializing in hands-on field testing and evaluation of HVAC systems and site utilities, the Dome-Tech Group provides engineering services, energy consulting and project development and implementation to optimize building performance, reduce energy expenses and improve indoor environmental quality. Dome-Tech is actively hiring for the following challenging career positions:

Commissioning Field Technician / Engineer

The ideal candidate must have 5+ years of field related experience with HVAC systems such as air/water balancing, system start-up and commissioning, service/maintenance, operations and troubleshooting. Experience conducting functional tests of chillers, boilers, AHUs, VAVs and other HVAC equipment required. An engineering or technology degree is desired.

Energy Engineer

Dome-Tech Energy Advisors is seeking qualified energy engineers to support demand for its energy consulting services. The ideal candidate will possess either a BSME or BSEE (PE, CEM desired) with experience in energy auditing, project screening and energy engineering.

Project Engineer

Dome-Tech Energy Solutions (DES) is seeking qualified project engineers to support the growing demand for our turnkey design/build services. The ideal candidate will possess a BSME (PE, CEM desired) and mechanical design experience with central plant utility systems (chilled water & steam). Candidate must have design experience in heating / cooling load calculations, pipe sizing and pressure drop calculations, combined heat and power analysis, and energy conservation measures, including life cycle cost analysis.

Sr. Project Engineer – Pump Systems

Dome-Tech Energy Solutions (DES) is seeking a qualified project engineer to support the growing demand for pump system projects for our municipal and utility customers. The ideal candidate will possess a BSME and have experience identifying and analyzing root causes of pump system degradation or failure. Candidate must be able to identify opportunities to improve pump system performance (repair, upgrade, replace) as part of energy conservation management program. Experience with numerous pumps / pumping system designs is essential – utility, HVAC and process pumps.

Salary / Benefits: Competitive salary commensurate with experience, medical/dental benefits, 401K, flexible spending account, paid vacation and holidays.

Please email resumes to recruiting@dome-tech.com or fax to 732-590-0129.

Joe Martino, Technical Staffing

Phone: (732) 590-0122, ext. 133

Fax: (732) 590-0129

E-mail: recruiting@dome-tech.com

Website: www.dome-tech.com

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.....

Dear ASHRAE Members:

Changing technologies, rising energy prices, and the increased focus on sustainability in the building industry have challenged ASHRAE to stay at the cutting edge of the field. As a result, ASHRAE has developed a new strategic plan to support its efforts better serve the changing marketplace.

ASHRAE's new strategic plan identifies four principal strategic directions that define where ASHRAE will focus its efforts and resources in the next several years, in addition to its commitment to ongoing programs and services. Grounded on ASHRAE's core values and consistent with its mission, the plan not only addresses the challenges and changes occurring in the current environment, but will move ASHRAE forward towards fulfilling its vision of a better future.

The new strategic plan is available on our website at <http://www.ashrae.org/template/AssetDetail/assetid/50843> . I encourage the chapters to go to the website and become familiar with the new plan in addition to referencing the strategic plan in upcoming newsletters, meeting notices, and other chapter activities.

The chapters are the lifeblood of ASHRAE and we need your support to achieve the Society's goals.

Thank you for your support of ASHRAE activities.

Sincerely,
Lee Burgett

2005-2006 ASHRAE Society President

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

E-mail articles to: MRichter@AKF-ENG.com or fax article to 212-354-5668

SOCIETY NEWS.....**ASHRAE Studies Impact of Ventilation on Health**

ATLANTA The impact of ventilation rates on occupant health is being studied through ASHRAE research.

³ASHRAE's guidance is widely referenced in the HVAC&R industry because it stays on top of new developments,² said lead researcher, Jan Sundell, Danish Technical University, Copenhagen, Denmark. ³The study will lead to an improved understanding of what science can tell us about the relationship between ventilation and health, which in turn will lead to more reliable information on the benefits of building ventilation. It also will give information about where there is a lack of knowledge, providing the basis for new research.² He noted that ASHRAE's ventilation standards primarily focus on occupant perception of indoor air quality, not health.

A panel of leading authorities on indoor air pollution and health within medicine and engineering will review existing research and literature on the effect of ventilation on health in schools, offices, residences, etc. While the focus will be on ventilation rates, they also will look at pollutant sources, source strength and pollutant concentrations.

Results may be used to update ASHRAE Standard 62.1, Ventilation for Acceptable Indoor Air Quality, and Standard 62.2-2004, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings.

The project, Scientific Review of Existing Information Related to the Impact of Ventilation Related to Health, 1443-RP, was approved at ASHRAE's 2006 Winter Meeting. It is expected to take 18 months to complete at a cost of \$50,000 with funding coming from ASHRAE and the National Center for Energy Management and Building Technologies. The project is sponsored by the Environmental Health Committee. Researchers are Sundell and Hal Levin, Indoor Air Institute, Santa Cruz, Calif.

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 (HVAC&R) to serve humanity and promote a sustainable world.

###

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.

SOCIETY NEWS.....

ASHRAE Focuses on Future Growth with New Strategic Plan

ATLANTA A new strategic plan adopted by ASHRAE will help move the Society toward fulfilling its vision of a better future.

³The new plan charts an exciting course for ASHRAE,² Lee Burgett, ASHRAE president, said. ³It calls for an ASHRAE that addresses new global initiatives, provides better tools to its members and that is more well-known to the groups and individuals who depend on us for technical guidance.²

Changing technologies, rising energy prices and increased focus on sustainability have challenged ASHRAE to stay at the cutting edge of the field, according to Burgett. At the same time, competition has increased and ASHRAE must focus its efforts to ensure that its products and services are timely, relevant and appropriately positioned to serve the changing marketplace. The strategic plan will help the Society achieve this, he noted.

³The Board of Directors has planned a course for ASHRAE's future,² Kent Peterson, chair of the Planning Committee, which lead development of the process. ³Our goal is to make the strategic directions and strategies included in the plan business-as-usual for our volunteers and staff. We are excited about the opportunities to continue to improve ASHRAE's value to our membership and the HVAC&R industry.² The plan can be found at www.ashrae.org/strategicplan. It contains four strategic directions where ASHRAE will focus its efforts over the next several years. They are:

- € ASHRAE will lead the advancement of sustainable building design and operations.
- € ASHRAE will be a world-class provider of education and certification programs.
- € ASHRAE will position itself as premier provider of HVAC&R expertise.
- € ASHRAE will be a global leader in the HVAC&R community.

To accomplish these strategic directions, several strategies are identified, including:

- € Leading the drive toward the design, construction and operation of net-zero-energy buildings through research, publications and education.
- € Developing the performance metrics and rating systems to certify operational performance of buildings for energy efficiency and indoor environmental quality.
- € Collaborating with other organizations to integrate HVAC&R systems with other building systems to enhance the effectiveness of total building design and integrated practice.
- € Providing accessible on-demand education and distance learning to members and other customers.
- € Developing and promoting certification programs for the HVAC&R industry.

In addition, the plan contains an updated mission statement and vision for the Society.

³I am particularly pleased with the Society's mission statement to advance the arts and sciences of HVAC&R to serve humanity and promote a sustainable world,¹² Burgett said. ³When we get embroiled in details about our technology, this statement is a useful reminder that ASHRAE's cumulative work product improves the quality of life for people around the world.²

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 (HVAC&R) to serve humanity and promote a sustainable world.

###