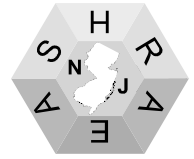




# THERMOGRAM



The New Jersey Chapter of ASHRAE Newsletter

WWW. NJASHRAE.COM

JANUARY 2006

1-(800)-927-7234

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

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### NEWSLETTER ADS

OPEN

### NEWSLETTER EDITOR

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732-577-9000

## FEBRUARY 2, 2006 WOODBIDGE SHERATON ROUTE 1, GILL LANE, ISELIN, NJ

### MEMBERSHIP AND HISTORY NIGHT

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

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

5:45 COCKTAIL HOUR

6:45 DINNER AND SPEAKER

SPEAKER: MR. MATTHEW MURELLO P.E.,  
LEWIS GOODFRIEND & ASSOCIATES

TOPIC: "NEW JERSEY SCHOOL  
ACOUSTICAL STANDARD"  
ONE (1) AIA CREDIT AVAILABLE

*The presentation will summarize the acoustical requirements of the 2002 Classroom Acoustics standard. This standard was developed by ANSI and is used by the NJSCC and other agencies for new school projects as a design goal. This presentation will discuss the relevant basics of HVAC and architectural acoustics and how the requirements of the classroom acoustics standard should be considered as part of the overall design of schools.*

**COMMITTEES  
(CONTINUED)**

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**ASHRAE ATLANTA  
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NUMBER  
1-(800)-527-4723**

**MESSAGE FROM REGION I PRESIDENT**

Friends,

The following are the first two issues of Tech Council's Members First Quarterly Briefing.

Hugh McMillan writes, "Our goal is to share with ASHRAE's grassroots a few of our successes and some thoughts on where we are going. The format is brief report from each of the committee's that fall under the Tech Council umbrella: Standards Committee, Technical Activities Committee, Research Administration Committee, Environmental Health Committee and Refrigeration Committee.

"We ask that each DRC forward this to their chapter presidents. We would hope that the chapter presidents in turn forward it to their members either by way of an insert in their chapter newsletter or by broadcast email to the chapter mailing list. We hope to receive input from the members on any topic of value to the members that our committees can influence. In this small way we can strengthen the bridge between the grassroots and the technology side of ASHRAE.

"Expect to see a new report after each meeting of the Technology Council. There will be one in November, one in February, one in May and one in August. This will continue as long as there is value for all concerned. Of course, the only way we will know that there is value in this newsletter is by receiving feedback, questions, advice, or concerns from our Members! When we here from you, you will get a direct reply to your inquiry. So take a look and let us hear from you!"

Personal regards, Lynn

Lynn G. Bellenger, PE  
Pathfinder Engineers LLP  
3300 Monroe Avenue, Suite 306  
Rochester, NY 14618-4611  
585-218-0730 phone  
585-218-0737 fax

**JANUARY SPEAKER BIOGRAPHY**



Mr. Murello has more than ten years experience as a Consulting Engineer. He provides consulting services and expert testimony to clients in the areas of architecture, environmental, industrial noise control, transportation, and heating, ventilation, and air conditioning (HVAC) acoustics. Mr. Murello's experience includes developing detailed computer noise models of auditoriums and houses of worship to improve interior acoustics and verification of acoustical design goals. He has performed sound pressure level measurements to determine compliance with State and local noise regulations as well as performing measurements of groundborne vibration and mechanical equipment vibration inside manufacturing areas. His experience includes interior acoustics and noise and vibration design of HVAC systems. He has carried out detailed theoretical evaluations to determine the expected acoustical performance of mechanical equipment at noise-sensitive areas, and prepared detailed reports to clients summarizing the results of engineering evaluations.

Mr. Murello earned his B.S.M.E. degree from The University of Hartford in 1993. He is a registered Professional Engineer in New Jersey, New York, Pennsylvania, Maryland, Massachusetts, South Carolina and Connecticut. Mr. Murello is a member of the Acoustical Society of America; Institute of Noise Control Engineering; American Society of Heating, Refrigerating and Air Conditioning Engineers; National Society of Professional Engineers; and the Transportation Research Board. He is a member of the Technical Committee for ASHRAE's TC2.6 Sound & Vibration.

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

**MARCH 2<sup>ND</sup>  
JOINT MEETING WITH USGBC**

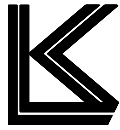
**APRIL 6<sup>TH</sup>  
STUDENT NIGHT  
SPEAKER TO BE ANNOUNCED  
SYSTEM INTEGRATION**

**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 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, 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

## 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.**

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

**SOCIETY NEWS....**

Contact: Jodi Dunlop  
Public Relations  
678-539-1140  
jdunlop@ashrae.org

**ASHRAE Technology Awards****Sustainable Design Recognized in ASHRAE Technology Awards**

ATLANTA - A circus big top, a school using 80 percent less energy than typical, and a Chicago sustainability education center are being recognized for innovative design by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

Three projects received first-place ASHRAE Technology Awards during ASHRAE's 2006 Winter Meeting, Jan. 21-25, Chicago.

The awards recognize outstanding achievements by members who have successfully applied innovative building design in the areas of occupant comfort, indoor air quality (IAQ) and energy conservation. Their designs incorporate ASHRAE standards for effective energy management and IAQ.

Receiving first place in the alternatives and/or renewable energy use category is Laurier Nichols for Ecole Du Tournant, Saint-Constant, Quebec. Nichols is team leader, energy efficiency, Dessau-Soprin, Longueuil, Quebec.

The alternative school has no greenhouse gas emissions and is the most energy efficient school in Quebec. It is 80 percent more efficient than a similar school built according to the energy code used in Canada. ASHRAE's energy conservation standard, 90.1, was the model used to develop the code.

Innovative design methods used include a high quality building envelope, a highly efficient lighting system, and a low energy HVAC&R system with intelligent control system.

Energy bills from the past two years show that the school saves \$34,4000 in energy per year, resulting in a payback period of 3.9 years.

Also receiving first place is Lev Zvenyach, P.E., vice president of IBC Engineering Services, Waukesha, Wis., for a City of Chicago building designed to serve as a national model of environmentally sensitive design. He is receiving the award in the existing commercial buildings category.

The Chicago Center for Green Technology functions as an office building, educational facility, a high-tech factory, interpretive center and a "garden in the city." The building houses tenants with a sustainable mission, such as a solar panel manufacturer, and its campus is open to visitors to help educate the public on how green buildings function and how they benefit the public and the environment.

The center incorporates a number of demand (lighting, cooling and heating) and energy consumption reduction measures. As a result, the building has a significant reduction in energy consumption: some 75 percent over typical office buildings in Chicago, 45 percent over ASHRAE Standard 90.1 compliant buildings without photovoltaic credit and 60 percent over buildings with the credit.

Receiving first place in the public assembly category is Martin Roy for TOHU's Capiteau Des Arts, Montreal, which is the first concert hall dedicated to the circus arts in North America. Martin is president, Martin Roy and Associates, Deux-Montagnes, Quebec.

The building features natural ventilation, passive solar heating, water conservation, use of wasted heat and energy efficiency.

Most the concepts and technologies used are new in local industries. District heating using waste heat, underground cuts, solar walls and natural/hybrid ventilation will help demonstrate the feasibility of such innovative designs.

Projects receiving ASHRAE Technology Awards honorable mentions are:

Dennis Sczmok and Thom Barry for Compuware World Headquarters, Detroit, in the new commercial buildings category. Sczmok is vice president, Peter Basso Associates, Troy, Mich. Barry is vice president, Mechanical Professional Services, Plymouth, Mich.

Wing Hong Chan for Swire Properties Management, Hong Kong, in the existing commercial buildings category. Chan is head of technical services, Swire Properties Management.

James Megerson, P.E., for Blue Valley North High School, Overland Park, Kans., in the existing institutional buildings category. Megerson is vice president Larson Binkley, Leawood, Kans.

Peter Johnson for the Brunswick (Ohio) School Performing Arts Center in the new institutional buildings category. Peterson is service manager, Pier Associates, Akron, Ohio.

Siang Hwa Lek for the National Institute of Education, Nanyang Technological University, Singapore. Lek is vice president, CPG Consultants, Singapore.

Mehdi Jalayerian for the Exelon Elevator and Stair Pavilions North, Millennium Park, Chicago in the alternative and/or renewal energy use category. He is senior vice president, Environmental Systems Design, Chicago.

ASHRAE, founded in 1894, is an international organization of 55,000 persons. It is the world's foremost technical society in the fields of heating, ventilation, air conditioning and refrigeration. Through its meetings, research, standards writing, publishing and continuing education, the Society helps keep indoor environments comfortable and productive, deliver healthy food to consumers and preserve the outdoor environment.