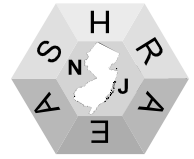




THERMOGRAM



The New Jersey Chapter of ASHRAE Newsletter

WWW.NJASHRAE.COM

JANUARY 2007

REPLY@NJASHRAE.COM

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JIM CASEY

ROSTER/DIRECTORY

OPEN

FEBRUARY 1, 2007

WOODBRIIDGE SHERATON
ROUTE 1, GILL LANE, ISELIN, NJ

MEMBERSHIP AND HISTORY NIGHT

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

RSVP TO:

WWW.REPLY@NJASHRAE.COM
NO LATER THAN JAN 31ST, 2007

4:30 BOARD OF GOVERNORS MEETING
5:30 GUEST REGISTRATION / COCKTAIL HOUR
6:30 CHAPTER ANNOUNCEMENTS
7:15 DINNER AND PRESENTATION

DINNER TOPIC:

"COMPARISON OF HVAC NOISE CRITERION"

PRESENTED BY:

MR. MATTHEW MURELLO P.E.
LEWIS S. GOODFRIEND & ASSOCIATES

The presentation topic addresses the use of various noise criterion as they pertain to HVAC System installations. Mr. Murello will enlighten attendees on which criterion is suitable for design professionals as well as identify sound power levels benchmarks to be established for various HVAC components and their sys-

SEE INSIDE CLASSIFIED ADS FOR ENGINEERING

COMMITTEES
(CONTINUED)
CTTC – TEGA
 MARK RICHTER P.E.
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NEWSLETTER ADS

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FEBRUARY SPEAKERS BIOGRAPHY

Matthew T. Murello, P.E., *President* **Lewis S. Goodfriend & Associates**

Mr. Murello has more than 12 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.

SOCIETY SATELLITE WEBCAST

On April 18, 2007.... ASHRAE's Chapter Technology Transfer Committee (CTTC) will present a satellite broadcast and simultaneous Webcast on "Indoor Environmental Design: Practical Solutions to Everyday Problems."

Online registration for site coordinators and webcast viewers begins March 1st at www.ashrae.org/iedbroadcast. Registration for satellite viewers begins March 15. Information about the speakers and program is available at www.ashrae.org/iedbroadcast.

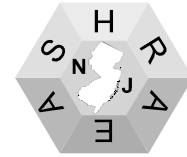
Three PDH credits will be granted to those who view the broadcast and then complete the Participant Reaction Form on our webpage following the program.

A \$50 discount off a one-year membership will be extended to anyone who joins ASHRAE as a new member in conjunction with the broadcast. See website for details.

If you have questions, call (678) 539-1139 or email ashrae-SatelliteBroadcast@ashrae.org.



NJ ASHRAE 2006 – 2007
DINNER MEETING SCHEDULE



FEBRUARY 1, 2007
MEMBERSHIP AND HISTORY NIGHT

COMPARISON OF ASHRAE NOISE CRITERION
 MR. MATTHEW MURELLO, P.E.
 LEWIS S. GOODFRIEND & ASSOCIATES

MARCH 1, 2007
AIR OUTLET DESIGN AND DISTRIBUTION
 MR. PETER PETRACA
 N.J. AIR PRODUCTS

APRIL 5, 2007
STUDENT NIGHT
 CHILLED CEILING IN PARALLEL WITH DEDICATED OUTDOOR AIR SYSTEMS
 (DOAS)
 ASHRAE DISTINGUISHED LECTURER
 MR. STANLEY MUMMA, PHD

MAY 3, 2007
SCHOLARSHIP AWARD NIGHT
INSTALLATION OF OFFICERS
 JOINT MEETING WITH N.J. USGBC
 TBD

JUNE 7, 2007
SPOUSES NIGHT

2006-2007 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.	831	0	0	0	0	25	280	305

CHAPTER NEWS



Congratulations !!

To New Jersey Chapter 50 year Members, Life Associate Members, Life Fellow Members and Life Members

The New Jersey Chapter of ASHRAE is pleased to announce the members that have achieved these prestigious memberships:

50 Year Members:

Eugene H Caille
John E Cammack
Robert S Emmans
Newton A Parker
Leslie Sterling
Herbert P Tining

Life Associate Member:

Barry H Tepp

Life Fellow Member:

Dr. Erv L Bales

Life Members:

Narenda T Kiri
James Van Wyck
Jerald Zandman

A society membership that is committed to the advancement of HVACR is what contributes to making ASHRAE the worldwide, respected authority and reference on heating, ventilation, refrigeration and air conditioning.

Please join us in congratulating these members for their long commitment to ASHRAE

HELP WANTED

Company:	Clive Samuels and Associates	Location:	Princeton New Jersey
Company Profile:		Other Categories:	
Specialty Field:	Commercial	Training/Education:	BSME; PE License Required
Experience:	10+	Salary Range:	TBD

Specific job responsibilities / qualifications required including certifications:

Would you like to be part of the MEP Design Engineer industry? Do you want to be challenged by opportunities that expose you to many facets of building design development?

As a Mechanical Lead Engineer for our Princeton NJ based MEP Consulting Engineering Firm (Division of Emerson Electric a Fortune 200 Corp), you will play a key role in performing complex engineering, design, analysis and other technical tasks utilizing current technology and available standards.

Perform a technical leadership role supervising, coordinating and directing others in the production of customer-focused design services that meet established project requirements.

Participate in business development activities including sales, proposal preparation and client presentations.

Requirements:

- + Senior-level engineering assignment to a project or organizational team, or as a Lead Engineer for a specific discipline or larger projects
- + Independently develops and/or supervises the creation of engineering documents that meet customer quality requirements; typical responsibilities may include detailed calculations and analyses, drawing review, technical reports, proposal evaluations, design and installation packages and development of specifications
- + May supervise or mentor one or more subordinates and provide input regarding performance.
- + Responsible for selection, layout and sizing of applicable systems and equipment
- + Identifies problems, establishes work scope, prepares budget and schedule, plans work, provides technical direction, and reports work status
- + Performs internal and external project management responsibilities as required
- + Represents design team at project and client meetings
- + Reviews, signs and seals drawings, specifications, calculations, reports and other documents.

CSA offers a competitive salary and excellent benefits, including medical, dental, life insurance, 401K with company match. We are an Equal Opportunity Employer and hire regardless of race, color, religion, general, natural origin, disability or veteran status.

Clive Samuels and Associates

105 College Road East 105 College Road East 105 College Road E
Princeton, NJ

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



SCHOOR DEPALMA
Engineers and Consultants

Sr. HVAC Engineer for our Manalapan, New Jersey office

Schoor DePalma, one of the region's leading engineering and consulting firms, employs more than 1100 professionals from 22 office locations throughout New Jersey, Pennsylvania, New York, Florida, Arizona and Maryland.

Schoor DePalma is looking for a senior HVAC engineer to manage an HVAC group as part of an MEP Department in the Manalapan, NJ office. 10+ years of HVAC building design experience required and a NJ PE license. LEED accredited a plus. Excellent growth opportunity in a growing department.

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

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HELP WANTED

HVAC Engineer wanted for Princeton, New Jersey consulting firm. Experience in design of HVAC systems for institutional and commercial buildings required. AutoCad proficiency is a must. Position is for a hands-on, production oriented individual.

Our firm provides full building systems design services for a variety of building types, including theaters, government, university and historical structures.

Work is interesting and challenging in an informal atmosphere with opportunity for advancement.

Candidate should have worked at a consulting firm doing similar work for a minimum of two years.

Four year college degree desirable, EIT a plus.

Send resumes to contact@pegllc.com.

Princeton Engineering Group, LLC

100A Forrestal Road

Princeton, NJ 08540



SHINE ENGINEERING, P.A.

Shine Engineering a multi-disciplined engineering firm seeks HVAC Design Engineer with a minimum of 3 years experience in designing commercial spaces. Must be proficient with AutoCAD. This represents an excellent opportunity to work for a small company and learn all phases of the business including project management, design, engineering and building surveys.

Qualifications:

- Excellent communication skills and have ability to articulate conceptual ideas with clients.
- BSME Required
- Autocad

Responsibilities:

1. Mechanical design engineer on multiple projects from schematic through construction phases.
2. Complete design and specifications with supervision.
3. Coordinate project work between mechanical, electrical & plumbing engineering's.

Salary/Benefits:

Competitive salary, 100% full medical, retirement plan

Submit resume via email with salary requirement to: john@shineengineering.com

SHINE ENGINEERING, P.A.

6 Renshaw Drive

Montville, New Jersey 07045

Tel (973) 402-2125 Fax (973) 402-2126

HELP WANTED

Arup is a leading international planning & design firm comprised of about 7,000 employees worldwide in 70+ offices. We are involved in the design of some of the most prestigious building & transportation projects locally & worldwide.

Due to the growth of our NY and NJ office locations Arup is currently accepting resumes for the following positions:

- Sr. HVAC Design Engineer (NJ)
- Tunnel Ventilation Design Engineer (NY)
- Mid Level HVAC Design Engineer (NY)
- Mid – Senior Level Electrical Engineer (NY/NJ)
- Civil Engineer (w/ I Rail or In Roads exp.) (NY)

To apply & for a full listing of current job vacancies please visit our website at www.arup.com/americas .

SOCIETY NEWS.....

Major Study of Aircraft Cabin Air Quality Launched by ASHRAE

ATLANTA – Good afternoon and thank you for flying with us. We want to make sure you are as comfortable as possible during the flight, so please let us know – how's the air quality? Is the temperature ok? Do we need to adjust the lighting? Thanks again for flying Indoor Comfort Airlines.

This is the message millions of U.S. and international airline passengers could be hearing in the near future thanks to a study funded by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and conducted by Battelle, a Columbus, Ohio-based global services and technology enterprise.

The research project will examine the link between aircraft cabin air and health symptoms and discomfort experienced by passengers and crew members.

"The aircraft cabin is a challenging microenvironment for maintaining the health, comfort and well-being of passengers and crew," said Jeff Myers, principal investigator for Battelle. "Space is limited, conditions can feel cramped, the outside environment is extreme, and travelers may experience anxiety over loss of control over their situation and environment. Through this study, we will determine the causes of passenger and crew discomfort and use that information to make flights more comfortable."

More than 600 million passengers fly U.S. carriers each year, with thousands of crew members spending much of their working time in densely packed airliner cabins.

During flights, passengers and crew can experience noise, reduced atmospheric pressure, poor lighting, vibration, low relative humidity, variable temperature and potential air quality degradation.

The study, set to begin early this year, will be carried out on several international and domestic commercial airlines. It also has the support of the Federal Aviation Administration's Air Transportation Center of Excellence for Airliner Cabin Environment Research.

Results from the research could be used by manufacturers to modify aircraft to improve air quality or by airline companies to make more low-impact changes, such as adjustment of lighting.

As part of the research, passengers on 160 flights will be surveyed about their perceptions of air quality on the flight. The flights will vary in distance, lengths and time zones.

Following the surveys, the top causes for statistical variation (such as the most complaints by time zone) will be ranked. Scientists then will travel on those flights, using on-board monitoring instruments to measure carbon monoxide and dioxide, respirable particles and volatile organic compounds among others.

The research is the second phase of a \$1.8 million research project. In the first phase in 2004, passengers and crew surveyed on four flights out of Cincinnati, Salt Lake City, Chicago and Seattle indicated that the overall cabin air quality was adequate.

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Indoor Environmental Design Focus of ASHRAE Satellite Broadcast

ATLANTA - Specific solutions to the everyday challenges of achieving indoor environmental quality within real-world budget constraints will be presented by ASHRAE in an upcoming satellite broadcast/Webcast.

Indoor Environmental Design: Practical Solutions to Everyday Problems, sponsored by ASHRAE's Chapter Technology Transfer Committee, will take place from 1-4 p.m. EDT, April 18. "This program will benefit designers, building owners, architects, contractors and facility managers who are faced with the daily engineering challenge of specifying systems that maximize IAQ, thermal comfort and noise control," said Bill Williams, chair of the broadcast committee. "Viewers will be given guidance on how to provide ventilation air that helps protect buildings instead of increasing mold risk, how to avoid the three most common mistakes in ventilation system design and operation, and how to provide comprehensive filtration without breaking their budget."

Bill Coad, P.E., president of Coad Engineering Enterprises, St. Louis, Mo., and past ASHRAE president, will present an overview perspective on indoor environmental quality and introduce the following panel of experts:

Hoy Bohanon Jr., P.E., owner and consultant, Bohanon Engineering Winston-Salem, N.C., "Ventilation System Design: Avoiding Three Common Mistakes."

Lew Harriman, director of research, Mason-Grant, Portsmouth, N.H., "Ventilation Air: First, Do No Harm."

Dan Int-Hout, chief engineer, Krueger-HVAC, Richardson, Texas, "Noise, IAQ and Thermal Comfort – Can You Have It All?"

Chris Muller, technical director, Purafil, Doraville, Ga., "Behind the Access Door – Advances in Affordable Filtration for IAQ."

Online registration opens March 1 for satellite broadcast site coordinators and Webcast participants at www.ashrae.org/IEDbroadcast. Registration for satellite download viewers begins March 15. There is no fee for registration. For more information, email ashrae-satellitebroadcast@ashrae.org or call 678-539-1139.

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