

# THE LONG ISLAND SOUNDER

ASHRAE Long Island Chapter, Region 1...*Founded in 1957*

February 2007



www.ashraeli.org

American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.

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## President's Message

Greetings. Here we are into February already and the time seems to pass faster each month. Guess I'm showing my age. Speaking of time however, last month's presentation by Mr. Terry Townsend, President of ASHRAE Society, was an eye opener. As the saying goes "you could hear a pin drop in the room" and I think that held true for his entire presentation. Mr. Townsend spoke of the world energy and global environmental crisis we now face and challenged each of us to make a difference for betterment of the planet and mankind. He spoke of ASHRAE's visions and how we are all responsible for and must work to obtain a sustainable future. For those present it was an excellent presentation and I believe everyone will agree that Mr. Townsend's challenge must be taken. On behalf of the board of governors and the entire Long Island Chapter, we thank Mr. Townsend for his time and efforts to visit and speak with us. Special thanks also to Mr. Garry Myers, Region 1 DRC who provided transportation and assistance for Mr. Townsend and to Peter Gerazounis, our chapter program chair for making this happen. We were fortunate at our last meeting to also have with us a special guest Mr. John Hyde from NYIT Old Westbury Campus. Mr. Hyde is the Dean from the Office of Career Services and he spoke briefly about his position and possible opportunities for the students and ASHRAE members. We look forward to future involvement with Mr. Hyde and the students of NYIT. A special thanks to our student activities chair, Mr. Brian Simkins for reaching out to NYIT and for all the other student programs he is working with.



## CHAPTER MONTHLY MEETING

<b>DATE:</b>	Tuesday, February 13, 2007
<b>TIME:</b>	6:00 PM - Cocktails/Dinner 7:00 PM - Dinner Presentation 8:45 PM - Conclusion
<b>LOCATION:</b>	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
<b>FEES:</b>	
Members -	\$35.00
Guest -	\$40.00
Student -	\$15.00

*Reservations requested, but not required.  
Call (516) 333-7117*

Our chapter membership is growing steadily thanks to the efforts of our membership chair Ms. Carolyn Arote. She has been doing an excellent job of recruiting new folks and she will be looking for all you associate members who are eligible for an upgrade. If you're currently an associate member and want to advance your grade please give her a call. Speaking of members, a number of you have returned the meeting survey data information that was published in last month's newsletter. Thank you for taking the time and interest in our chapter. In review of the data that's come in, we seem to be getting a load and clear message. The lecture is the driving motivation for your attendance and if it can qualify for PDH credits, that's the ticket. Some folks are also looking for a little shorter of a meeting. The board will take all of this under advisement and look to shape our future programs accordingly.

We have received a memo from society regarding a satellite broadcast planned for April. They are presenting an afternoon program, several hours long and the topic is Indoor Environmental Design, Practical Solutions to Everyday Problems. Mr. Bill Coad, P.E., president of Coad Engineering Enterprises and

Cont'd. on Page 3

## Long Island Chapter Officers & Committees

### ASHRAE 2006/2007 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	<b>John Nally</b>	631.331.0215	631.928.4625	jn@atiofny.com
President-Elect	<b>Peter Gerazounis, P.E.</b>	212.643.9055	212.643.0503	pgerazounis@mgjassociates.com
Vice President	<b>Steven Friedman</b>	212.695.1000	212.695.1299	sfriedman@lilker.com
Financial Secretary	<b>Steven Giammona, P.E.</b>	212.643.9055	212.643.0503	sgiammona@mgjassociates.com
Treasurer	<b>Richard E. Gerbe</b>	718.269.3753	718.269.3598	rgerbe@trane.com
Secretary	<b>Nancy Román</b>	516.256.4800	516.256.3299	nroman@airdist.com
Board of Governors	<b>Carolyn Arote</b>	516.256.4800	516.256.3299	carote@airdist.com
Board of Governors	<b>Brian Simkins</b>	203.261.8100	203.261.1981	bsimkins@accuspecinc.com
Board of Governors	<b>Craig D. Marshall, P.E.</b>	203.261.8100	203.261.1981	cmarshall@accuspecinc.com

### ASHRAE 2006/2007 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	<b>Peter Gerazounis, P.E.</b> <b>Richard Rosner, P.E.</b>	212.643.9055 631.737.9170	212.643.0503 631.737.9171	pgerazounis@mgjassociates.com rrosner@csflc.com
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Newsletter Editor	<b>Liset Peña</b>	212.643.9055	212.643.0503	lpena@mgjassociates.com
Resource Promotion	<b>Steven Friedman</b>	212.695.1000	212.695.1299	sfriedman@lilker.com
Historian	<b>Nancy Roman</b>	516.256.4800	516.256.3299	nroman@airdist.com
Student Activities	<b>Brian Simkins</b> <b>Carolyn Cammalleri</b>	203.261.8100 631.549.1000	203.261.1981	bsimkins@accuspecinc.com ccammalleri@lilker.com
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## President Message (Cont'd. from Page 1)

ASHRAE past president will present an overview perspective and introduce a panel of experts who will conduct the seminar. I believe it will qualify for PDH credits but I do need to confirm that. In the past we have conducted satellite seminars for our chapter with a decent attendance. We are entertaining participating with this broadcast but we need some feedback from our members. There is obviously planning, coordination and expense involved with this that we need to consider vs. potential attendance and benefits. If you would be interested in participating in this satellite broadcast please let us know as soon as possible.

We are very pleased to be hosting a joint meeting with SMACNA this month and look forward to seeing our trade allies. The presentation will focus on specifications and duct construction and we anticipate an informative and interesting evening. Please mark your calendar, grab your hat and coat and come to the meeting. In closing I would like to thank everyone who has contributed to ASHRAE research. As most of you know the money is used to support research and development in many different areas. Recently some of the funds found their way back to Long Island in the form of a grant to Hofstra University for a research project they are conducting. There shouldn't be any doubt that in order to develop a sustainable future, we need invest today. Please make a difference and make a contribution.

*John Nally - President - Long Island Chapter*

## Chapter Monthly Meeting - Program for 2006/2007

<b>September 12, 2006</b> * At Westbury Manor  Dinner Presentation - Characteristics of Throw, Overhead Air Distribution Fundamentals	<b>February 2007 - TBD</b> <b>NATIONAL ENGINEERS WEEK DINNER</b>
<b>October 10, 2006</b> * At Westbury Manor  Dinner Presentation - Contract Provisions & Risk Aversion	<b>March 13, 2007</b> Dinner Presentation - Chimney Design & Combustion/ Ventilation Requirements for Gas-Utilization Equipment
<b>November 14, 2006</b> * At Westbury Manor  Dinner Presentation - High Performance Design Guide for Energy Efficient Commercial Buildings <b>RESOURCE PROMOTION &amp; STUDENT ACTIVITIES NIGHT</b>	<b>April 10, 2007</b> <b>FIELD TRIP - TBD</b>
<b>December 5, 2006</b>  Holiday Party - Westbury Manor	<b>May 7, 2007</b> * <i>Cherry Valley Club, Garden City, NY</i> <b>ANNUAL GOLF OUTING</b>
<b>January 9, 2007</b> * At Westbury Manor  <b>DINNER PRESENTATION BY</b> Dinner Presentation: <i>The ASHRAE Promise: A Sustainable Future</i> <b>BY TERRY TOWNSEND SOCIETY PRESIDENT</b> Joint Meeting with ACCA	<b>May 15, 2007</b> <b>ASHRAE DISTINGUISHED LECTURER</b> Dinner Presentation - Thermal Energy Storage & Leed
<b>February 13, 2007</b> * At Westbury Manor <b>JOINT MEETING WITH SMACNA</b> Dinner Presentation - TBD <b>MEMBER PROMOTION NIGHT</b>	<b>June 12, 2007</b> * At Westbury Manor <b>PAST PRESIDENTS &amp; OFFICER INSTALLATION</b>
<b>February 2007 - TBD</b> ASHRAE Winter Meeting	<b>June 2007 - TBD</b> ASHRAE Annual Meeting
<b>August 2007 - Chapter Regional Conference Region I - TBD</b>	

## RUNNING PAOE POINTS FOR 2006/2007

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	Chapter PAOE Totals
336	135	110	0	25	840	0	1,110

## Board of Governors Meeting Minutes

A meeting of the Board of Governors was held on Tuesday, January 9, 2007 at the Westbury Manor. Present at the meeting were: John Nally, Peter Gerazounis P.E., Steven Friedman, Steve Giammona, Richard Gerbe, Nancy Román, Carolyn Arote, Brian Simkins, Claudio Darras and Andrew Braum. John Nally called the meeting to order at 5:08PM and the following was discussed:

**General Discussion**- John Nally shared the general meeting attendance survey results which were that members who attend regularly are most interested in the PDH approved technical presentations and not the social aspect of the meeting.

A committee member "draft" was established to solicit members with regular attendance to become part of a committee or chair.

A dinner cruise was proposed for the 50<sup>th</sup> chapter anniversary next year.

**Treasurer Report** - Rich Gerbe reported the following as of 12/31/06: the checking account balance of \$16,977.00 and the Merrill Lynch account balance of \$ 7,430.18. There are no outstanding invoices.

**Programs** - Peter Gerazounis reported that the joint meeting with SMACNA will be held in February. The field trip in April will be held at SUNY Farmingdale. A visit to a local brew house was proposed to end the trip.

**Research Promotion** - Steve Friedman reported that this year's contribution is \$ 3,200 to date and the goal is \$12,500.

**Student Activities** - The Long Island Chapter will donate \$500 to Hofstra for the engineering students in the Rube Goldberg contest. Brian Simkins will donate his time to students at Old Field middle school that are involved in the rubber band car design squad.

**Membership** - Carolyn Arote reported that she recruited 15 new members. She will send out member advancement letters to eligible members. February and May will be membership night.

**Chapter Technology Transfer** - Steve Giammona reported 360 PAOE points to date and is working towards a goal of 855 points.

**Website** - Rich Gerbe reported he was working on getting the website updated.

**History** - Nancy Román reported 300 PAOE points to date. The June meeting will be past president and history night. She will interview past presidents for future monthly article material.

Meeting Adjourned 5:52 PM

***Nancy Román***  
***Secretary***



## February Program

*You are cordially invited to our February 2007  
Joint Meeting with SMACNA LI*



## Dinner Presentation

***“Ductwork Manufacturing & Installation”***

**Intent to Interpretation**

<b>DATE:</b>	<b>TUESDAY, FEBRUARY 13, 2007</b>		
<b>Time:</b>	6:00 PM – Cocktails and Hors D'oeuvres 7:00 PM – Dinner/Presentation 8:30 PM – Conclusion	<b>Fee:</b>	\$ 35.00 Member \$ 40.00 Guest \$ 15.00 Student
<b>Location:</b>	<b>WESTBURY MANOR</b> (516) 333-7117 Jericho Tpke (South Side), 3/10 of mile east from Glen Cove Rd., Nassau County, NY. <b>Directions are posted at @ <a href="http://www.ashraeli.org">www.ashraeli.org</a>.</b>		
<b>Panel Presentation: (Length- 1.5 Hrs)</b>	<p>Many times inconsistencies in HVAC specifications lead to different interpretations by different contractors that can result in discrepancies in pricing and installation planning. Members of SMACNA's Long Island Chapter have teamed up with ASHRAE Long Island to review and outline concerns from the contractor's perspective regarding proper specification of ductwork and accessories to assure consistent interpretation to intent of design.</p> <p>SMACNA's team will present various topics where designers may consider making adjustments to their specifications and details in order to achieve their design intent. The importance of SMACNA's "HVAC Duct Construction Standards Manual" in the design process will also be discussed as will the pricing impacts of extraneous or "overdesigned" specifications.</p> <p><b>Attendees of this evening's meeting will be offered a one time discount for purchase of literature from the SMACNA bookstore.</b></p>		
<b>SMACNA Committee:</b>	<p>Bill Reichling – Blue Diamond Sheetmetal</p> <p>Peter Vath – Triple S</p> <p>Sol Marachinskas – Twin County</p> <p>Rich Kern – Cool Sheetmetal</p>		

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## Long Island Chapter - Past Presidents

1958	H. Campbell, Jr. PE	1982	Timothy Murphy, PE
1959	Clyde Alston, PE	1983	Leon Taub, PE
1960	Sidney Walzer, PE	1984	Raymond Combs
1961	Sidney Gayle	1985	Edward W. Hoffmann
1962	William Kane	1986	Jerome T. Norris, PE
1963	Louis Bloom	1987	Abe Rubenstein, PE
1964	Milton Maxwell	1988	Michael O'Rourke
1965	Will Reichenback	1989	Mel Deimel
1966	Joseph Minton, PE	1990	Robert Rabell
1967	Irwin Miller	1991	Gerald Berman
1968	Walter Gilroy	1992	Donald Stahl
1969	Charles Henry	1993	Ronald Kilcarr
1970	William Wright	1994	Jerald Griliches
1971	Louis Lenz	1995	Walter Stark
1972	Ronald Levine	1996	Joe Marino
1973	Henry Schulman	1997	Norm Maxwell, PE
1974	Myron Goldberg	1998	Alan Goerke, PE
1975	John N. Haarhaus	1999	Frank Morgigno
1976	Richard K. Ennis	2000	Michael Gerazounis, PE
1977	Kenneth A. Graff	2001	Ray Schmitt
1978	Evans Lizardos, PE	2002	Steven M. Stein, PE
1979	Albert Edelstein	2003	Andrew Braum, PE
1980	Ralph Butler	2004	Claudio Darras, P.E.
1981	Robert Rose, PE	2005	Craig D. Marshall, P.E.



## Student Activities

Our next Student Activities night is this February please help make this a successful event by inviting engineering students to attend.

At our last meeting we had a career services professional speak, John Hyde [jmhyde@nyit.edu](mailto:jmhyde@nyit.edu) from NYIT. It was well received by all who attended and now is the time you will start seeing requests for summer internships. Please take advantage of career services groups like NYIT's that provide candidates; they can do a lot of the work for you.

Remember I am looking for locations to visit and drum up interest in ASHRAE. If you have any contacts or information on groups that may be good candidates please let me know.

Please visit: <http://www.ashrae.org/students/> for more information on all the Student ASHRAE activities and opportunities.

**Brian Simkins**  
**Student Activities Committee**



## History

Look around at the landscape of Long Island and you will see the history of our chapter members past and present. Buildings of all types, offices, apartments, schools, hospitals, stadiums and the countless manufacturing operations are a tribute to all the HVAC designers and tradesmen who helped build them. Some projects are in the public eye and enjoy notoriety. Others, which may be in the private or government sector often aren't as visible but are every much as important. One such project that took place in the 1980's was the Colliding Beam Accelerator (CBA) that was constructed at Brookhaven National Laboratory.

Some of our chapter members participated in the construction and operation of a very unusual refrigeration system for this new accelerator built at Brookhaven. The magnets, which control the particle beams operate at a temperature of 4K and need a refrigeration system to cool them. With a lot of design study, the resultant helium refrigeration system became the world's highest capacity refrigerator in the 4K range. The initial CBA would later become the Relativistic Heavy Ion Collider and would see future refrigeration design changes. The initial system would operate at two temperature levels. It produced a refrigeration effect, which was the equivalent of approximately 25 KW at 4K with the designed output as follows:



- 55 KW at 55K for heat shield cooling.
- 13.65 KW at 4K for magnet cooling.
- 100 G/S at 4K (liquefaction) for power leads.

Supercritical helium was pumped around to the loops by a centrifugal compressor and the heat was rejected to sub cooler heat exchangers. The other side of the heat exchangers contained boiling liquid helium.

The technical detail and explanation of this whole system would require far more space than I have to write in. I think most folks however will get the idea that this was not your typical restaurant refrigerator. The collider is not visible from the street and may not be publicly popular but it has made extraordinary contributions to scientific research in particle physics. Putting it into perspective, it's important to remember that the contributions of ASHRAE's members go well beyond the limits of creature comforts.

***Nancy Román***  
***Chapter Historian***

## Membership

Our first membership promotion night is this month, February. Please bring some prospective members, and if they join that night their meal is on us. I would like to take this opportunity to Welcome our newest members in alphabetical order. Erwin Bogner, Michael Conlon, Jerritt Gluck, Edwin Hopkins, Phinley Phillips, Faron Tomlinson, Michael Wright. This has been a great year for new membership, let's keep our chapter growing.

***Carolyn Arote***  
***Membership Chairman***

**CTTC****Evolution of Interconnecting Refrigerant lines on Split Systems**

As equipment evolves and refrigerants change, the practices employed to install interconnecting refrigerant piping should also evolve. Efficiency and reliability rely heavily upon the methods used to interconnect the condensing unit with an air handler. Old practices are not necessarily correct for a system to function properly and in most cases these practices actually hinder overall system performance. Some of the techniques discussed below would have been considered “bad engineering” in the past, but currently work effectively with today’s modern scroll compressors and R-22 refrigerants. A successful application is based on proper selection of equipment and properly designed interconnecting piping.

When selecting equipment the following information should be used as a guide:

- Selection of coil should be based on a minimum suction temperature of 40 degrees Fahrenheit for VAV systems. This will essentially promote stable performance over the systems entire operating range.
- Hot-gas bypass should be avoided in comfort cooling applications. It is seldom needed in properly designed systems and often wastes energy. If a designer is concerned about coil frosting, the use of evaporator defrost control should be considered.

In order to maximize system efficiency and reliability, consider the following general guidelines when laying out interconnecting piping:

- Limit the overall line length of piping. Whether the piping is horizontal or vertical, suction or liquid, it is important to minimize piping runs to avoid added pressure drop and problems with the refrigerant. Both will reduce compressor efficiency and capacity.
- Always use Type L copper tubing for R-22 applications.
- Whenever possible, utilize the manufacturer’s software to ensure proper suction and liquid line sizing for your application. Piping distances, both vertical and horizontal, can be evaluated to ensure the piping is properly designed.
- Pitch the liquid and suction line one inch toward the evaporator for every ten feet of run.
- Always use and properly maintain filter dryers. It is extremely important to keep the refrigerant clean.

Pressure drop in the suction line adversely affect unit capacity and efficiency. High-pressure drops can reduce compressor capacity and efficiency. Accordingly, when considering suction line sizing, it is important to follow the following criteria:

- Different pipe sizes should be used for horizontal and vertical lines. This makes it easier to match line pressure drops and refrigerant velocity to suction line requirements.
- In order to ensure proper oil entrainment and avoid sound transmission, size the suction line so that the refrigerant velocity equals or exceeds the required minimum velocity as determined by the equipment manufacturer.
- Riser traps are not needed if the riser is properly sized to maintain velocity. The use of traps only increases the suction line pressure drop.
- Insulate the suction line if condensation and dripping pose a problem, or to prevent refrigerant from condensing inside the line if the piping is exposed to low temperatures.

In order for equipment to function properly, sufficient sub-cooling must be maintained at the expansion valve. To provide proper operation throughout the range of operating conditions, the liquid line pressure drop should not exceed the unit’s minimum sub-cooling value less 5 degrees Fahrenheit. General guidelines for refrigerant piping are listed below:

- The smallest practical line size for the application should be used. Limiting the refrigerant charge improves compressor reliability.
- When designing the liquid line, remember that every ten feet of vertical rise will reduce sub-cooling by 2.8 degrees Fahrenheit, and every ten feet of vertical drop will add 1.1 degrees Fahrenheit of sub-cooling.

**CTTC (Cont'd. from Page 8)**

- Solenoid valves are required to prevent liquid refrigerant from filling the evaporator when the compressor stops and slugging when the compressor restarts.
- If the liquid line is routed in an area warmer than the outdoor air temperature, the line must be insulated to prevent the refrigerant from flashing.
- Use a moisture-indicating site glass to visually check the liquid column for bubbles.

It is imperative to follow proper procedures when specifying, designing, and installing a split air-conditioning system. Without such procedures, the reliability, efficiency, and capacity will be compromised.

**Steven Giammona, P.E.**  
**Chapter Technology Transfer Committee Chair**

**Photographs of January's Meeting**

**Mr. Terry Townsend**  
**Society President**



**Long Island Meeting Dinner & Raffle**

## ASHRAE RELEASE NO. 1

### **Focus on Small Retail - ASHRAE Releases Next Advanced Energy Design Guide ATLANTA – Buildings designers are one step closer to a net-zero energy building.**

Published by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), the Advanced Energy Design Guide for Small Retail Buildings is the second in a series of publications that cover various types of building construction. Intended for use by builders, contractors and architects, the guide covers energy-efficient design for retail buildings up to 20,000 square feet.

“The purpose of the design guide is to provide a simple, prescriptive menu of options that will result in a building using 30% less energy than those constructed in accordance with the 1999 version of ASHRAE Standard 90.1, the foundation for energy efficiency in building codes throughout the United States,” said Merle McBride, chairman of the committee overseeing the book’s creation. “Those looking to achieve a LEED certification from the U.S. Green Building Council (USGBC) will find this guide particularly useful.” The guide offers energy efficiency guidance in many areas, including lighting, HVAC efficiencies, windows, skylights and envelope measures. A major difference from Standard 90.1 is that the guide provides equipment efficiencies by climate zone to take into account varying environmental factors, instead of having one number for the entire United States.

The guide resulted from collaboration among ASHRAE, the Department of Energy, USGBC, Illuminating Engineering Society of North America (IESNA) and the American Institute of Architects (AIA). The retail industry provided guidance to the guide’s development team to ensure building owner perspectives were considered when forming design recommendations. To help in future editions, users of the guide will be able to provide feedback via an Internet link. The guide is part of a series of ASHRAE publications that will progress toward providing net-zero energy designs for buildings of various types. The first publication in the series focused on small office buildings, and the next energy design guide will address K-12 schools. “This is a long-term endeavor by ASHRAE,” said McBride. “ASHRAE is focusing on improving the energy efficiency of the nation’s building stock, targeting where the greatest energy-saving impact can be achieved.”

The cost of the Advanced Energy Design Guide for Small Retail Buildings is \$59 (\$49, 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. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

## ASHRAE RELEASE NO. 2

### **Liquid Cooling Guidelines Available - IT Heat Load Solution Discussed in New ASHRAE Publication**

ATLANTA – Heat loads generated by IT equipment can present significant problems for data centers by introducing effects such as decreased equipment availability, wasted floor space and inefficient cooling system operation. One solution, liquid cooling, is described in detail in ASHRAE’s new publication, Liquid Cooling Guidelines for Datacom Equipment Centers. Liquid Cooling Guidelines for Datacom Equipment Centers covers a broad range of liquid cooling topics such as facility cooling systems, facility piping design, liquid cooling implementation for datacom equipment, liquid cooling infrastructure requirements for chilled water systems, and liquid cooling infrastructure requirements for technology cooling systems. The book is the fourth in a series written by ASHRAE Technical Committee 9.9, Mission Control Facilities, Technology Spaces and Electronic Equipment. “The book incorporates the experience of liquid cooling from the mainframe days,” says Roger Schmidt of IBM and chair of TC 9.9. “Liquid cooling is a proven technology, and the book provides a good central source of liquid cooling information from the datacom equipment to the facility level.”

The cost of Liquid Cooling Guidelines for Datacom Equipment Centers is \$49 (ASHRAE members, \$39) and is available in print and download versions. 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 Bookstore at [www.ashrae.org](http://www.ashrae.org). ASHRAE, founded in 1894, is an international organization of 55,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

**CLASSIFIEDS**

**ENGINEERS** - MGJ Associates is a rapidly growing consulting firm based in NYC. We are currently seeking qualified engineers to staff our Long Island Office. Applicants should be senior level engineers that are well versed and knowledgeable in mechanical, electrical, plumbing and fire protection disciplines. The right candidates must possess strong communication skills as they will interact with senior management on a daily basis. The job description is multifaceted and will include the oversight of the company design process, coordination between design groups/trades, project scheduling, adherence to quality control standards, review of contract documents. We can offer an excellent working environment, convenient Hicksville location, and a very competitive compensation package. Send resumes in strict confidence to [resume@mgjassociates.com](mailto:resume@mgjassociates.com).

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