

THE LONG ISLAND SOUNDER

May 2008



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

www.ashraeli.org

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

Inside this issue:

President's Message	1
Meeting Information	1
LI Chapter Officers	2
Meeting Schedule	3
PAOE	3
Program	4
Research Promotion	5
Student Activities	5
LI Past Presidents	6
CTTC	6-7
Golf Outing Pictures	8-9
CRC 2008	10-12
Classifieds	13
Advertisements	14-15

President's Message

Fore! It's May which means we just held our 9th Annual ASHRAE Long Island Chapter Golf Outing. A good time was had by all, except perhaps a few whose lives may have been threatened by an errant ball or overly zealous long drive. I am proud to say the event was a great success. We are fortunate to have such an event that helps support our chapter operations and Society's Resource Promotion fund.



There are many people I would like to thank:

- To begin, from the chapter's relationship through ATI, Mr. Bob Hutter has been our sponsor through the Cherry Valley Club since the inception of our outing. We truly appreciate the access provided to such a beautiful, well maintained and operated club.
- The committee chair and volunteers: Steve Friedman, John Nally, Alan Goerke and Ray Schmitt each pitch in every year to make the process of organizing and operating the event a pleasant endeavor.
- Our sponsors whose contributions make the outing a financial success.
- The club general manager Mark Zaino and the rest of the Cherry Valley Club staff for putting together a great event with great golf, food and service.

CHAPTER MONTHLY MEETING

DATE:	Tuesday, May 13, 2008
TIME:	6:00 PM - Cocktails/Dinner 7:00 PM - Dinner Presentation 8:45 PM - Conclusion
LOCATION:	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
FEES:	
Members -	\$35.00
Guest -	\$40.00
Student -	\$15.00

Reservations requested, but not required.

Call (516) 333-7117

In April, in lieu of our normal monthly meeting, we held our annual field trip at Newsday printing facility in Melville. Joseph Marino, Manager of Facilities Engineering and chapter past-president, along with Timothy McGarry, Senior Manager of Plant Operations hosted a tour of the facility highlighting the printing process as well as the mechanical and electrical support infrastructure.

At our upcoming May dinner meeting, chapter past-president, Ray Schmitt of Daikin AC will give a presentation on Variable Refrigerant Volume and Flow HVAC Systems. The presentation of this technology comes at a good time as its use is gaining popularity in the area. Thanks to the efforts of Richard Rosner and Steve Friedman, we will be offering 1 PDH credit for attendance.

We're in the home stretch of the 2007-2008 year and the chapter's Board of Governors is preparing for the turnover of positions for the 2008-2009 year when Steven Friedman will take the helm of the chapter. The new year gets into gear in August with the CRC

Cont'd on Page 3

Long Island Chapter Officers & Committees

ASHRAE 2007/2008 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	Peter Gerazounis, P.E.	212.643.9055	212.643.0503	peter.gerazounis@mgepc.net
President-Elect	Steven Friedman, HFDP	212.695.1000	212.695.1299	sfriedman@lilker.com
Vice President	Steven Giammona, P.E.	516.827.4900	516.827.4920	srg@cameronengineering.com
Financial Secretary	Richard E. Gerbe	718.269.3753	718.269.3598	rgerbe@trane.com
Treasurer	Nancy Román	516.256.4800	516.256.3299	nroman@airdist.com
Secretary	Carolyn Arote	516.256.4800	516.256.3299	carote@airdist.com
Board of Governors	Brian Simkins	203.261.8100	203.261.1981	bsimkins@accuspecinc.com
Board of Governors	Andrew Manos	631.592.2660	631.630.8883	andym22@optonline.net
Board of Governors	John Nally	631.331.0215	631.928.4625	jn@atiofny.com

ASHRAE 2007/2008 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	Steven Friedman, HFDP Richard Rosner, P.E.	212.695.1000 631.737.9170	212.695.1299 631.737.9171	sfriedman@lilker.com rrosner@csfllc.com
Membership	Carolyn Arote	516.256.4800	516.256.3299	carote@airdist.com
Chapter Technology Transfer (CTTC)	Andrew Manos	631.592.2660	631.630.8883	andym22@optonline.net
Newsletter Editor	Liset Peña	212.643.9055	212.643.0503	liset.pena@mgepc.net
Resource Promotion	Steven Giammona, P.E.	516.827.4900	516.827.4920	srg@cameronengineering.com
Historian	Richard E. Gerbe	718.269.3753	718.269.3598	rgerbe@trane.com
Student Activities	Brian Simkins Carolyn Cammalleri	203.261.8100 631.549.1000	203.261.1981	bsimkins@accuspecinc.com ccammalleri@lilker.com
Webmaster	Richard E. Gerbe	718.269.3753	718.269.3598	rgerbe@trane.com
Nominating	Michael Gerazounis, P.E.	212.643.9055	212.643.0503	michael.gerazounis@mgepc.net
Reception & Attendance	Robert Morgigno	631.331.0215	631.928.4625	rm@atiofny.com
PR & Engineering Joint Council of LI	Richard E. Gerbe	718.269.3753	718.269.3598	rgerbe@trane.com
Golf Outing	Peter Gerazounis, P.E. Steven Friedman, HFDP	212.643.9055 212.695.1000	212.643.0503 212.695.1299	peter.gerazounis@mgepc.net sfriedman@lilker.com













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President Message (Cont'd from Page 1)

(Chapters Regional Conference). The 15 chapters that make up Region 1 each send representatives (delegates) to attend business meetings that have an impact on chapter, region and society policies and procedures. Additional chapter representatives attend to receive training for committee positions and attend workshops and technical sessions. Every year, the CRC is hosted by a different chapter that provides an entertaining program of activities to supplement the business of ASHRAE. Our chapter normally sends about 8 members each year. This year's CRC will in Mystic, CT and hosted by the Connecticut Chapter. I personally look forward to it as it will be held in one of the more interesting venues. Information is included in this month's newsletter.

*Peter Gerazounis, P.E. LEED AP
President - Long Island Chapter*

Chapter Monthly Meeting - Program for 2007/2008

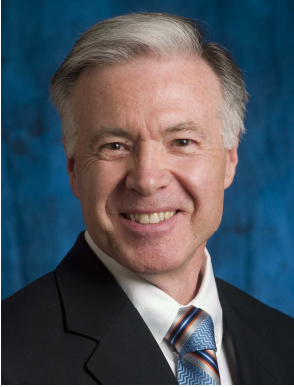
September 11, 2007 * At Westbury Manor  Dinner Presentation - The Fundamentals, Design & Applications of Geothermal Systems - 3PDH	February 2008  NATIONAL ENGINEERS WEEK DINNER
September 28, 2007  ASHRAE LI Chapter 50th Anniversary Dinner Cruise Manhasset Bay Marina	March 11, 2008  Dinner Presentation - Humidity & Humidity Control - 1 PDH
October 9, 2007 * At Westbury Manor  Dinner Presentation - Alternative Dispute, Resolution & Litigation MEMBERSHIP PROMOTION NIGHT	April 8, 2008  FIELD TRIP - Newsday Plant Melville, NY (See April Program Section for Details)
November 13, 2007 * At Westbury Manor  Dinner Presentation - Fan Fundamentals/VFD's - 1PDH RESOURCE PROMOTION & STUDENT ACTIVITIES NIGHT	May 5, 2008 * Cherry Valley Club, Garden City, NY  ANNUAL GOLF OUTING
December 11, 2007  Holiday Party - Westbury Manor	May 13, 2008 Dinner Presentation - Variable Refrigerant Flow Systems- 1PDH
January 8, 2008 * At Westbury Manor  Dinner Presentation - Seismic Design & Application - 1PDH Joint Meeting with ACCA	June 10, 2008 * At Westbury Manor PAST PRESIDENTS & OFFICER INSTALLATION
January 2008  ASHRAE Winter Meeting	June 2008 - TBD ASHRAE Annual Meeting
February 12, 2008 * At Westbury Manor  JOINT MEETING WITH SMACNA Dinner Presentation - Design, Construction & Commissioning of LEED Projects - 1PDH - DISTINGUISHED LECTURER MEMBERSHIP PROMOTION NIGHT	

PAOE POINTS FOR 2007/2008

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	Chapter PAOE Totals
313	210	390	300	125	590	655	2,270

May Program

You are cordially invited to our May 2008 Meeting...



Dinner Presentation

"Variable Refrigerant Volume and Flow "

Presented by

Ray Schmitt
Daikin AC

**Attendees
Will Earn
1 PDH!**

DATE:	TUESDAY, MAY 13, 2008		
Time:	6:00 PM – Cocktails and Hors D'oeuvres 7:00 PM – Dinner Presentation 8:45 PM – Conclusion	Fee:	\$ 35.00 Member \$ 40.00 Guest \$ 15.00 Student
Location:	WESTBURY MANOR (516) 333-7117 Jericho Tpke (South Side), 3/10 of mile east from Glen Cove Rd., Nassau County, NY. Directions are posted at @ www.ashraeli.org.		
Presentation:	Variable Refrigerant Volume and Flow HVAC systems, while relatively new to the United States have been popular in both Asia and Europe for many years. This application should be recognized, considered and utilized when conditions permit. Ray's objective is to educate you on this system by introducing it in a very basic informal manner. Like all HVAC Systems, there are many design considerations that should be known prior to utilizing it; this presentation will provide a sound foundation and understanding of these and many other issues.		
About our Speaker:	Ray Schmitt is a graduate of SUNY at Farmingdale and has nearly 40 years of experience as a project manager for mechanical contracting firms and sales engineering. He was our chapter's Past President in 2001 and continues to be a committed member. His in-depth knowledge and experience will prove to be most educational and enlightening at this presentation.		

CHAPTER MAY NOT ACT FOR SOCIETY

An International Organization

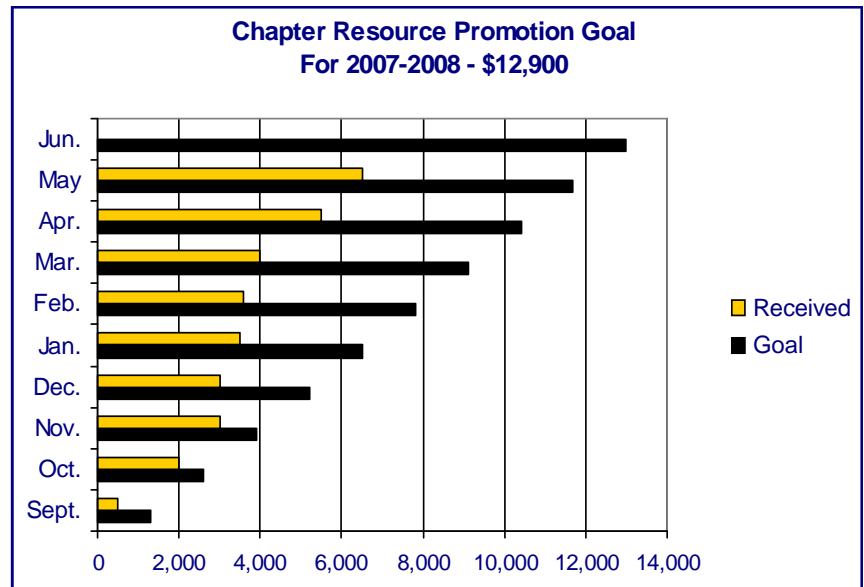
Research Promotion

Once again we thank those who have contributed to ASHRAE Research, and ask those who have not, to step up to the plate. Ultimately research results in the betterment of mankind and your donation is tax deductible. That's a win, win situation.

I would like to thank **SMACNA** for making a donation this month. All contributions can be mailed to:

Mr. Steven Giammona, P.E.
Ashrae Research Promotions
c/o CAMERON ENGINEERING
& ASSOCIATES, LLP
100 Sunnyside Boulevard, Suite 100
Woodbury, NY 11797

Steven Giammona, P.E.
Research Promotion Chairman



Student Activities

Schools Almost Out: If you have a position or know someone that does please let me know so we can get the opportunities out to our students.

Scholarships: I am happy to announce we have many great scholarship applicants for our LI Chapter Award. We look forward to announcing our lucky candidates at our next meeting in June.

Participation: If you are a student reading this, we encourage you to participate in our local chapter activities. Let us show you what's going on in ASHRAE. There are scholarships, grants, design competitions and technical publications available to you? Let us help you take advantage of these opportunities. This year is winding down but it is never too late to get involved.



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

Brian Simkins
Student Activities Committee



Long Island Chapter - Past Presidents

1958	H. Campbell, Jr. PE	1983	Leon Taub, PE
1959	Clyde Alston, PE	1984	Raymond Combs
1960	Sidney Walzer, PE	1985	Edward W. Hoffmann
1961	Sidney Gayle	1986	Jerome T. Norris, PE
1962	William Kane	1987	Abe Rubenstein, PE
1963	Louis Bloom	1988	Michael O'Rourke
1964	Milton Maxwell	1989	Mel Deimel
1965	Will Reichenback	1990	Robert Rabell
1966	Joseph Minton, PE	1991	Gerald Berman
1967	Irwin Miller	1992	Donald Stahl
1968	Walter Gilroy	1993	Ronald Kilcarr
1969	Charles Henry	1994	Jerald Griliches
1970	William Wright	1995	Walter Stark
1971	Louis Lenz	1996	Joe Marino
1972	Ronald Levine	1997	Norm Maxwell, PE
1973	Henry Schulman	1998	Alan Goerke, PE
1974	Myron Goldberg	1999	Frank Morgigno
1975	John N. Haarhaus	2000	Michael Gerazounis, PE
1976	Richard K. Ennis	2001	Ray Schmitt
1977	Kenneth A. Graff	2002	Steven M. Stein, PE
1978	Evans Lizardos, PE	2003	Andrew Braum, PE
1979	Albert Edelstein	2004	Claudio Darras, P.E.
1980	Ralph Butler	2005	Craig D. Marshall, P.E.
1981	Robert Rose, PE	2006	John Nally
1982	Timothy Murphy, PE		



CTTC - Community-Scale Heating/Cooling/Power Systems

Aggregating loads is one approach to improving energy efficiency in building heating and cooling systems at a lower cost per unit capacity. Community-scale systems exist at a range of scales, i.e., they can aggregate loads from a handful of homes or buildings up to hundreds of homes or buildings to facilitate improved energy efficiency while minimizing cost impacts. Improved efficiency at lower cost can result because:

- Equipment efficiency tends to increase with scale;
- Equipment costs per unit capacity tend to drop as capacity increases;
- Larger systems can enable use of more-efficient technologies that are not always cost-effective at smaller scales (such as ground-source heat pumps or thermal energy storage systems); and
- Central equipment capacity can generally be lower than the sum of individual equipment capacities due to load diversity.

The performance of HVAC systems and other equipment used in single-family residences is particularly constrained by scale and, therefore, could benefit significantly from load aggregation. Heating systems are the most common community-scale system, although community-scale systems can also provide electric power (either power only, or combined heat and power [CHP], systems) that can further enhance energy efficiency. Community-scale cooling systems have the potential to provide additional energy savings.

Example Communities

Load aggregation in community-scale systems can make CHP systems more practical. One study of a hypothetical CHP system based on solid-oxide fuel cell (SOFC) technology applied to load profiles for an actual community (mixed residential, commercial, and light industrial) near Canonsburg, Pa., showed a 35% to 45% reduction in primary energy consumption for electricity and an additional 40% to 45% reduction in natural-gas consumption for heating.

Cont'd on Page 7

CTTC - Community-Scale Heating/Cooling/Power Systems (Cont'd. from Page 6)

The Drake Landing Solar Community, consisting of 52 energy-efficient homes in Okotoks, AB, Canada, was completed in the summer of 2007. Drake Landing incorporates a community-scale heating and seasonal thermal storage system to supply more than 90% of its space-heating requirements with solar energy. The heating system consists of 24,680 ft² of solar thermal collectors mounted on detached garages (behind the homes) and interconnecting roofed-in breezeways. A borehole thermal energy storage field (144 boreholes, each 115 ft deep) collects heat generated during the spring and summer for use during the following winter. A dedicated building houses auxiliary gas-fired boilers, mechanical equipment, and two short-term thermal storage tanks. The short-term storage can absorb heat at a faster rate than the borehole storage system, allowing capture of peak summer solar energy. Heat from the short-term storage tanks is transferred to the borehole storage system throughout the day and night.

A pilot program has been established to test a draft LEED rating system for neighborhoods. The LEED for Neighborhoods rating system is intended to promote the principles of smart growth, new urbanism, and green building. Efficient use of energy plays heavily in the rating system, which encourages (among other factors):

- Reduced automobile dependence;
- Energy efficiency in buildings;
- Solar orientation (to facilitate passive and active solar strategies);
- On-site generation and on-site renewable energy sources;
- District heating and cooling; and
- Infrastructure energy efficiency (use of energy-efficient traffic lights, street lights, water and wastewater pumps and treatment systems).

Two-hundred thirty-eight developments (205 in the U.S., 24 in Canada, and nine in four additional countries) have signed up to participate in the pilot program,⁶ which is almost double the original goal of 120 developments. Participating developments range in size from 0.17 acre to more than 12,800 acres. Average development size is 298 acres, while the median is 30 acres. Most are in dense, urban areas, and have greater percentages of multifamily housing compared to U.S. averages.

Market Factors

There are significant barriers to using community-scale systems, such as:

- Community-scale systems can be very costly and disruptive to retrofit to existing communities.
- Homes and other buildings in existing communities already have individual heating and cooling systems, so the cost of installing those systems cannot be offset.
- Homes and other buildings must be in close proximity to one another—otherwise, piping and wiring runs become excessively long, adding cost, and increasing thermal losses and pumping parasitics.
- Community-scale systems often require alternative business models, such as third-party ownership and operation. Community residents may, however, be reluctant to rely on third parties for critical services.
- The costs for community-scale systems can be high. For example, the developers of Drake Landing estimate that the cost for delivering heat (which, as noted above, uses a sophisticated seasonal thermal storage system) is about \$23 million/MMBtu. Furthermore, assessing costs and economics can require significant community-specific analysis.

Despite these barriers, growing pressures to address national energy security will provide powerful drivers to increase the use of community-scale systems. For example, California has passed legislation mandating reductions of greenhouse gas emissions to 1990 levels by 2020, and then further reductions to 20% of 1990 levels by 2050. Such dramatic reductions in greenhouse gas emissions (and associated reductions in energy consumption) will almost certainly increase the demand for community-scale approaches.

Andrew Manos
Chapter Technology Transfer Committee Chair

ASHRAE Golf Outing 2008

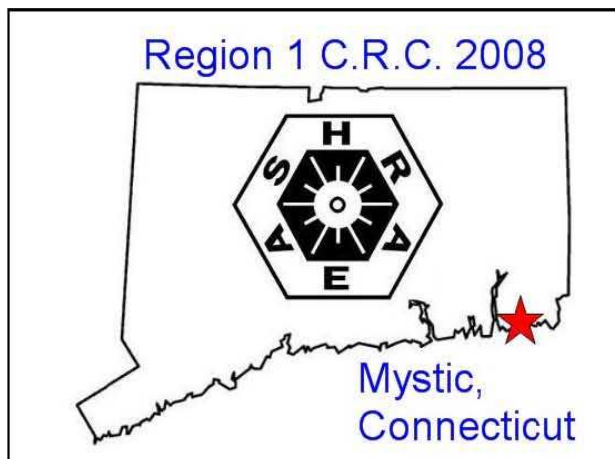


ASHRAE Golf Outing 2008



CRC 2008 - Mystic, Connecticut - August 14-16, 2008

*The Connecticut Chapter of ASHRAE
invites you to join us in historic
Mystic Country
on the Connecticut shoreline*



ASHRAE Region 1

Chapters Regional Conference

August 14th – 16th, 2008

CRC 2008 Agenda

Thursday, August 14th

Registration – Hotel	8 am – 7 pm
Golf Outing – Shenny GC	9:00 am
Hospitality Suite	4 pm – 6:30 pm
1st Business Meeting	4:30 pm – 6:30
Orientation	4:30 pm
Welcome Reception & Dinner, Mystic Aquarium	7 pm – 11 pm

Friday, August 15th

Registration – Hotel	7 am – 7 pm
Breakfast	6:30 am – 10am
Caucus	7:00 am
2nd Business Meeting	8:30 am - Noon
President's Luncheon	12:15 pm
1st Technical Sessions	1:45 pm
2nd Technical Sessions	3:45 pm
Hospitality Suite	1:45 pm – 5:30
Banquet & Music	6:00 pm – 10pm
Hospitality Suite	10:00 pm – 1am

Saturday, August 16th

Registration – Hotel	7 am – 10 am
Breakfast	6:30 am – 10am
Executive Session	7 am – 8:15 am
Breakout Workshops	8:30 am – 11:45
Hospitality Suite	9 am – Noon
Awards Luncheon	Noon – 2 pm
3rd Business Meeting (if necessary)	2 pm – 4 pm

For further information visit

www.ctashrae.org

or contact

Committee Chair Phil Knowlton

at 860-342-3970

pbknowlton@comcast.net

CRC 2008 - Mystic, Connecticut - August 14-16, 2008

Welcome Reception & Dinner

Thursday Night 7 pm

at the fabulous

Mystic Aquarium

Don't miss it!!



The world famous
Mystic Aquarium
will be reserved exclusively
for ASHRAE CRC attendees.



** Drinks **Hors d'oeuvres
 **Dinner **Fun
 **Tap-dancing dolphins
 (OK maybe not)

It's going to be great!!
Make sure you plan to arrive
by Thursday evening!

CRC Activities

Golf Outing – Shennecossett Golf Course
Thursday, 9:00 a.m.

Welcome Reception & Dinner - Mystic Aquarium
Thursday, 7:00 p.m.

President's Luncheon
Friday, 12:15 p.m.

Technical Sessions
Friday, 1:45 p.m. & 3:30 p.m.

Banquet
Friday, 6:00 p.m.

Awards Luncheon
Saturday, 12:00 noon

Area Attractions

- Mystic Seaport
 (discounted admission)
- Mystic Aquarium
 (discounted admission)
- Institute for Exploration
- Olde Mistick Village
- Foxwoods & Mohegan Sun casinos
- USS Nautilus & submarine museum
- Deep sea fishing
- Ocean Beach Park
- River cruise
- Sea kayaking
- Hiking
- Biking

*For more information
about area attractions, visit:
www.ctashrae.org/crc08*

CRC 2008 - Mystic, Connecticut - August 14-16, 2008

Hotel Accommodations

Hilton Mystic
20 Coogan Blvd.
Mystic, CT 06355
860-572-0731

Make hotel reservations separately.
Special ASHRAE room rate: \$159.00 / night,
single or double occupancy.

Area airports:
Bradley International, Hartford
T.F. Green, Providence

Directions: I-95, Exit 90.

At end of exit, go south on Rt. 27
(Greenmanville Ave.)

Follow signs to Mystic Aquarium.
Hotel is right across from Aquarium.

Event sponsors:



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TRANE

Registration Form

*(complete only one form for each
member/family attending)*

DEADLINE: July 15th - to avoid late Price

<u>Sign up for...</u>	<u>Price</u>	<u>Late price</u>
Full Package w/ Golf*	\$365.00	\$465.00
Full Pkg. No Golf*	295.00	375.00
Full Companion Pkg.*	140.00	165.00
Children under 12*	80.00	100.00
One Day - Member (Fri. Banquet and Saturday meals)	195.00	275.00
Awards Luncheon	45.00	65.00

*meals included: Thurs. dinner thru Sat. lunch
Please include a note on **Special Dietary Needs**

Total \$ _____

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ASHRAE Chapter

Chapter officer? Committee chair?

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Lilker Associates Consulting Engineers, P.C is currently seeking junior and mid-level Mechanical/HVAC Engineers for our Long Island Office. Due to expansion and growth, we are in need of talented, motivated individuals who seek a friendly working environment with opportunities for professional advancement to work on a wide variety of interesting projects. We offer very competitive salaries, medical and dental benefits packages, 401K plan and other amenities. Our LI office is conveniently located right off the Long Island Expressway in Melville. Candidates interested in this position should send their resume and cover letter by fax to (212) 842-0482 or email to info@lilker.com, attn: Human Resources.

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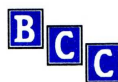
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