

THE LONG ISLAND SOUNDER

September 2008



www.ashraeli.org

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

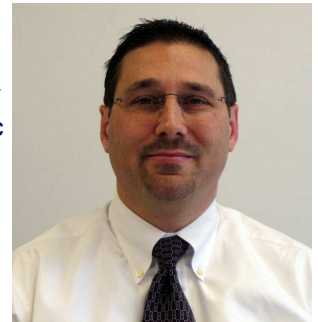
American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.

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President's Message

Hello everyone and welcome to another year of Ashrae for the Long Island chapter. I trust everyone had a great summer and ready for the beautiful fall weather ahead. I am very excited to lead this chapter as president and have a fantastic staff behind me. I would first like to congratulate Peter Gerazounis on his past presidential year. He is a very dedicated, knowledgeable leader and I enjoyed working for him on the Board of Governors. Fortunately for our chapter this year, we have three active past presidents between the board and committees. I would like to thank Peter Gerazounis, John Nally and Andrew Braum for their continued commitment to the Long Island Chapter. Additionally, we welcome Ms. Janeth Costa to the Board of Governors. Janeth is a graduate mechanical engineer currently working for a mechanical contractor on Long Island. She is also chairing our Resource Promotion Committee and we are very happy to have her on board. It is encouraging to note that our Board of Governors is diversified with consulting engineers, equipment sales engineers, applications engineers and mechanical contractors.



Our Board of Governors and committee chairs have just returned from the Region One Chapter Regional Conference (CRC), which was held in Mystic Connecticut, August 14th through the 16th. Mystic is a beautiful area with many attractions. On

Thursday evening, the welcome reception dinner was held inside the Mystic Aquarium, where tables were set adjacent to the fish tanks. Peter and I ate the lobster ravioli and felt extremely guilty as we brought our plates back to the table. It felt as if the "star attractions" were staring at us with deep animosity! At the CRC awards ceremony, the Long Island chapter received awards for Resource Promotion, the Black Ink award and the Presidential Award of Excellence (PAOE) Star Award Special Citation for significant improvement in membership, attendance, resource promotion, education, chapter programs and technology. The Resource Promotion and Black Ink award are fairly consistent awards our chapter receives. Steve Giammona did a fantastic job this year exceeding the financial goal by 121%. Thank you all for your donations and continued support of Ashrae. The Black Ink award is presented for the best chapter newsletter. Our newsletter is something to be extremely proud of and Liset Pena has done and continues to do an unbelievable job. The PAOE Star Award is a clear indication of Peter's leadership and the entire Board of Governors. Additionally, Brian Simkins, Carolyn Camalleri, John Nally, Andy Manos,

CHAPTER MONTHLY MEETING

DATE:	Tuesday, September 9, 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*

Cont'd on Page 3

Long Island Chapter Officers & Committees

ASHRAE 2008/2009 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	Steven Friedman, HFDP	212.695.1000	212.695.1299	sfriedman@lilker.com
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Board of Governors	Andrew Manos	631.592.2660	631.630.8883	andym22@optonline.net
Board of Governors	Janeth Costa	631.242.8787	631.242.7084	jcosta@apollohvac.com
Board of Governors	Peter Gerazounis, P.E.	212.643.9055	212.643.0503	peter.gerazounis@mgepc.net

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	Carolyn Cammalleri	631.549.1000		ccammalleri@lilker.com
Webmaster	Nancy Román	516.256.4800	516.256.3299	nroman@airdist.com
Nominating	Michael Gerazounis, P.E.	212.643.9055	212.643.0503	michael.gerazounis@mgepc.net
Reception & Attendance	Robert Fuchs	718.599.1336		rfuchs@alnikmechanical.com
PR & Engineering Joint Council of LI	Peter Gerazounis, P.E.	212.643.9055	212.643.0503	peter.gerazounis@mgepc.net
Golf Outing	Peter Gerazounis, P.E.	212.643.9055	212.643.0503	peter.gerazounis@mgepc.net
	Steven Friedman, HFDP	212.695.1000	212.695.1299	sfriedman@lilker.com

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President Message (Cont'd.)

Carolyn Arote and Nancy Roman continue to work hard and do an incredible job for this chapter. The guest speaker at the CRC was Vincent Tse, Society Vice President, who resides and flew 20 hours from Hong Kong to be with us. His speech was rather interesting, centered on Ashrae as a more global society. It is interesting to note that Ashrae membership outside of the United States comprises of almost as many members as within. This is a sure sign that Ashrae has become more of a global presence, growing by leaps and bounds. One of the negativities for Ashrae is the loss of many members who have or choose not to renew their memberships' or members who just do not participate, the numbers are alarmingly low. I ask for your assistance to encourage, bring or invite your co-workers, employees, clients etc. to our meetings. The lack of HVAC engineers is quite evident and we must not lose site of the growth potential within our industry.

I look forward to seeing you all at our September meeting; our programs for this year are exciting, diverse and promise to be very informative.

Thank you,

Steven Friedman, HFDP
President - Long Island Chapter

Chapter Monthly Meeting - Program for 2008/2009

September 9, 2008 * At Westbury Manor - 1 PDH Dinner Presentation - DDC Controls MEMBERSHIP PROMOTION NIGHT	February 2009 NATIONAL ENGINEERS WEEK DINNER
October 14, 2008 * At Westbury Manor - 1 PDH Dinner Presentation - Condensing Boiler Design STUDENT ACTIVITIES NIGHT	March 10, 2009 * At Westbury Manor - 1 PDH Dinner Presentation - Dedicated Outdoor Air Systems/ Energy Recovery RESOURCE PROMOTION NIGHT
November 18, 2008 * At Westbury Manor Dinner Presentation - Design/Build of LEED Projects ASHRAE DISTINGUISHED LECTURER RESOURCE PROMOTION	April 14, 2009 FIELD TRIP - Blue Point Brewery
December 16, 2008 Holiday Party - Westbury Manor	May 4, 2009 * Cherry Valley Club, Garden City, NY ANNUAL GOLF OUTING
January 13, 2009 * At Westbury Manor - 1 PDH Dinner Presentation - Mission Critical HVAC & Electrical Design MEMBERSHIP PROMOTION NIGHT	May 12, 2009 Dinner Presentation - TBD REFRIGERATION NIGHT
February 10, 2009 * At Westbury Manor JOINT MEETING WITH SMACNA Dinner Presentation - TBD STUDENT ACTIVITIES NIGHT	June 9, 2009 * At Westbury Manor PAST PRESIDENTS & OFFICER INSTALLATION
February 2009 ASHRAE Winter Meeting	June 2009 - TBD ASHRAE Annual Meeting

August 2009 - Chapter Regional Conference Region I

PAOE FINAL POINTS TOTALS FOR 2007/2008

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	Chapter PAOE Totals
313	535	885	1,750	250	945	1,105	5,470

September Program

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



Dinner Presentation

“The Economic Benefits of Open Systems”

Presented by

Ronald D. Padilla
Vice President – Integration Services
Control Technologies, Inc.



DATE:	TUESDAY, SEPTEMBER 9, 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:	Open Systems provide economic benefits to end users not only in first costs, but life cycle costs of their Building Automation Systems. They provide the owner with the opportunity to obtain the “Best in Class” products as well as services for HVAC and other Building Automation Systems. This presentation will provide a history of control systems, the business models of current procurement methods, and new solutions that will empower the end user to develop and maintain a truly open system.. This seminar will earn professional engineers 1 PDH.		
About our Speaker:	Ronald D. Padilla has been in the controls and building automation business since 1981 where he started in sales in the New York Metro area. Ron was the National Manager of Distribution for Invensys Building Systems (now TAC), before joining Control Technologies in April of 2002 where he started and developed the NY metropolitan office for CTI. Ron has been involved with large System Planning & development with companies such as Exxon Mobil, Duke University Medical Center, Yale University, Fletcher Allen Health Care, Bank of America, Verizon Wireless, NYC Schools, and more. Ron is a LonMark Certified Professional and now heads up the Integration Services Group on a corporate level for CTI, who has offices in New York, Massachusetts, Vermont, New Hampshire and California.		

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Long Island Chapter - Past Presidents

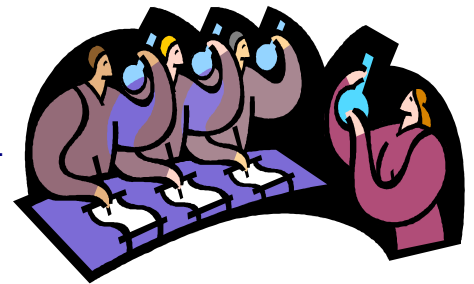
1958	H. Campbell, Jr. PE	1983	Leon Taub, PE
1959	Clyde Alston, PE	1984	Raymond Combs
1960	Sidney Walzer, PE	1985	Edward W. Hoffmann
1961	Sidney Gayle	1986	Jerome T. Norris, PE
1962	William Kane	1987	Abe Rubenstein, PE
1963	Louis Bloom	1988	Michael O'Rouke
1964	Milton Maxwell	1989	Mel Deimel
1965	Will 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	2007	Peter Gerazounis, P.E.



Student Activities

Schools Back in session and it is time to get learning back in high gear. This time of year always brings new opportunities for our Students and I look forward to helping introduce ASHRAE to as many as possible. Carolyn Cammalleri with Lilker Associates is assisting me this year so we should be able to cover some more bases. As always I ask for your assistance in making this a successful year.

We will have two Student Activities Nights one in November and one in February. Let's get started on this early to get as many new faces at our meeting as possible. We have an excellent lecture schedule this year so I expect a great turn out.



Student Membership--Student Members are sponsored by full-grade Members or Associate Members. The student must be studying or have an interest in an HVAC&R industry-related field. A student eligible for ASHRAE student membership is a person matriculated in an approved course of study in a university, college, junior college, or technical institute, who is being educated in the arts and sciences covered by the Society's objectives [Student ASHRAE Membership](#)

The Student Zone--The Student Zone web page offers valuable career and educational resources for ASHRAE Student Members. [Student Zone](#)

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

Brian Simkins
Student Activities Committee

Carolyn Cammalleri
Vice Chair

Research Promotion

Welcome back! I hope everyone had a great summer. This is my first year as Resource Promotion Chair. This year's RP training, which was held in Chicago, was very insightful. I was able to interact with other RP Chairs in different regions and share ideas on how to better generate funds. Leaders from Ashrae Headquarters also spoke to us about what the financial goals and research projects are for this coming year. This year's overall resource promotion goal is \$ million dollars with over 90 research projects on the board.

Our chapter is expected to raise approximately \$13,000.00 towards the overall goal. I am hoping I can count on the continued support of all of our past contributors who have generously supported us over the years. I also look forward to gaining the support of new contributors this coming year. Please help support Ashrae in any way you can.

A special thank you to all of last year's contributors:



Ms Carolyn Arote	Mr Jerome T Norris	Bladykas Engineering P C
Mr Marcel A Bally	Mr Michael O'Rourke	Bush Wholesalers
Mr Dennis A Baresich	Mr Robert A Rankel	Carrier Northeast
Mr Kevin Beirne	Mr Richard J Rogers	Concessi Engineering
Mr Andrew S Braum	Ms Nancy Roman	County Fair Air Conditioning Corp
Mr John C Cronin, Jr	Mr Donald E Ross	County Pneumatic Controls Incorporated
Mr Steven D Friedman	Mr Peter D Ruppert	Dagher Engineering PLLC
Mr Andrew J Garda	Mr Raymond G Schmitt	EMTEC Consultants Professional Eng
Mr Ricky Gaska	Mr Christopher M Schwarz	Ga Fleet Associates Inc
Mr Peter Gerazounis	Mr Douglas Shunk	Huebner Air Conditioning & Heating Co
Mr Richard E Gerbe	Mr Brian C Simkins	James Lasala & Associates
Mr Steven R Giammona	Mr Harold C Smith, Jr	Lizardos Engineering Associates PC
Mr Carl E Graber	Mr David K Van Wickler	Long Island ASHRAE Chapter
Mr Arthur A Huebner	Mr Fred H Weber	MSP Technology.com LLC
Mr Ronald J Kilcarr, PE	A O Smith Water Heaters	SMACNA - Long Island
Mr Robert A Leventhal	Accuspec Inc	Taco Inc
Mr Craig D Marshall	Anron Heating & Air Conditioning Inc	Twinco Supply Corporation
Mr Frank D Morgigno	Applied Technologies of NY Inc	Ultimate Power
Mr John D Nally	Berne & Bob Leventhal Inc	Viessmann

You can contribute in a number of ways:

- Personal check made out to Ashrae Resource Promotion
- On-line by going to www.ashrae.org * Please make sure your accredit your contribution to the LONG ISLAND CHAPTER 006 *

Thank you again for all your past support and I look forward to a great year!

Janeth Costa
Research Promotion

History - Looking Up

On one of my recent trips into Manhattan I had a few minutes between appointments so I was busy staring up admiring the architecture of the buildings. One building in particular caught my eye. The crown of the structure was very interesting with all sorts of spires rising up. With the help of a Google search the next day, I found out that the building was called the General Electric Building, 570 Lexington Ave. Originally built as the 'RCA Victor Building' it is a historic 50 floor structure known for its stylized Gothic tower and a classic Art Deco design. Like so many buildings in Manhattan it has an interesting history that makes good reading. I didn't think any more about the building after that day but a week or so later that changed.

I was busy with some housekeeping of the chapter's history archives and one of the books fell. It opened to a page that had the minutes of a chapter meeting dated September 9th, 1980. The first thing that dawned on me was that our first chapter meeting this year will also be September 9th. The second discovery was a little weird. The guest speaker for that night 28 years ago was discussing the upgrade of the air conditioning system in the General Electric building on Lexington Ave. Gee that's the building I was looking at a few days ago. Coincidental? Maybe, but too good to pass up. Here's a recap of the minutes of that meeting.



September 9th, 1980. President Ralph Butler called the meeting to order at 7:07 PM at the Hofstra University Club. The members and guests introduced themselves and the past presidents in attendance were recognized. Minutes of the past meeting were read and accepted and the committee chairs reported to the audience. A student scholarship was awarded to Mr. Timothy Audley who was present with his dad. The dinner speaker was introduced and "presented an interesting discussion of the air conditioning facilities at the G.E. building". One of the significant challenges dealt with the unusual materials handling method to avoid interruption of tenant services and to minimize the cost of rigging and materials. A special system was developed in Phase 1 of the project and it provided a means for both temporary and permanent materials handling. The A/C system consisted of PTAC units and steam heat. Complications from the height of the surrounding building structures made innovative design a must. The result was a design with one side of the building utilizing water cooled equipment and the other side air cooled equipment. "The entire air condition system had an economizer cycle on the air cooled side utilizing enthalpy controls for use of outside air and on the water cooled side using cooling tower water to provide pre-cooling when available".

"The presentation was very adequately presented and enhanced by a series of slides showing schematics and actual pictures of as-builts, pipe and duct installations. Details concerning the types of filters, piping and controls were expounded upon and made clear. The customer was extremely pleased in the reduction of demand charge as a result of the re-habilitation".

The speaker of the evening was Mr. Evans Lizardos of Lizardos Engineering. Evans's firm received the 1980 ASHRAE Region 1 Energy Management Award for Existing Buildings. As many of our members know Evans was past president of our chapter in 1978 and a strong supporter of chapter activities throughout the years.

If I hadn't been "looking up" that day, I wouldn't have found this interesting historical tidbit.

John Nally
Chapter Historian

CTTC - Infrared Radiant Heaters

Most commercial buildings use either a furnace or boiler to meet space heating needs. However, many use unit heaters for space heating, as do many industrial buildings.

Unit heaters are self-contained heating units that burn natural gas or oil, or use electric-resistance to heat spaces in buildings. Often, they are hung from the ceiling of a space, but can also be installed on floors or walls. Because many people find unit heaters aesthetically undesirable, unit heaters tend to be used in spaces with less sensitivity to aesthetics, such as garages, or in buildings with high ceilings, such as big-box retail stores.

Unit heaters transfer heat to spaces via forced convection. They consist of a heat source, a heat exchanger, and a fan. In natural gas- or oil-fired unit heaters, combustion occurs in a combustion chamber and the hot combustion gases flow through the inside of a metal heat exchanger and exhaust to the outdoors through a vent. In electric-resistance heaters, the resistance heating surfaces are the heat exchanger. In both fuel-fired and electric units, a fan (e.g., propeller or blower) blows air over the hot outer surface of the heat exchanger and through louvers or a discharge cowl to direct and distribute the heated air throughout the conditioned space. Radiant infrared heaters are an alternative to unit heaters that transfer heat to spaces via a mix of radiant and natural convection heat transfer (the latter often is primarily a loss because most of that heat ends up near the ceiling). They can use either gas, oil, or electricity to produce heat.

Gas- and oil-fired radiant infrared heaters have a burner assembly that uses a blower to blow (or, an upstream vacuum pump to induce) air into the assembly, mixes the fuel with the air, and ignites the fuel. The flame propagates downstream of the burner assembly into a long radiant heating tube that achieves high surface temperatures and radiates heat to the area below (ranging from approximately 400°F to 900 °F over the length of the heating tube). In addition, units have reflectors above and to the sides of the heating tube to suppress natural convection heat transfer and to redirect a large portion of the radiated heat downward, increasing the effective delivery efficiency of the heater to the occupied zone (i.e., floor level) in the building.

Radiant infrared heaters mounted near the ceiling with the radiant output directed toward the floor can maintain comfort conditions for occupants with less fuel consumption than warm-air space heating equipment, particularly in industrial and commercial spaces having comparatively high ceilings (e.g., in excess of 16 ft). In essence, radiant infrared heaters directly radiate heat to the occupants and also warm the floor and other surfaces near the floor, which re-radiate heat to the occupants and warm the air near the floor. In contrast, warm air heating equipment, such as unit heaters, tends to heat spaces unevenly and much of the warm air output buoyantly rises to the ceiling in spaces with high ceilings. This, in turn, increases heat loss through the roof while providing less heat to the occupants. In sum, radiant infrared heaters do not transfer heat to the overall space more efficiently than unit heaters, but usually direct that heat more effectively to the occupants.

Energy Savings Potential

Few analyses compare the energy performance of radiant infrared heaters to unit heaters. Nonetheless, test data support the assertion that radiant infrared heaters can maintain heating temperature setpoints in the occupied zone of spaces with higher ceilings while consuming less energy than unit heaters. Specifically, one set of tests compared unit heater and radiant infrared heater performance in a 20 ft high test building. The tests found that, after adjusting for the outdoor temperatures over the test periods, the radiant infrared heaters consumed about half the energy to heat the same space as the unit heaters.

A major factor in the increased energy consumption with unit heaters was that the unit heaters developed vertical temperature gradients more than twice as great as the radiant infrared heaters. Consequently, roof insulation levels have a significant impact on the relative performance of the two equipment types. Preliminary analyses indicate that higher insulation levels would reduce the difference between unit heater and radiant infrared heater energy consumption by about one-third, in which case the radiant infrared heater would consume approximately 33% less energy than unit heaters. To extrapolate the energy savings to a national basis, however, requires knowing what percentage of unit heater installations are in spaces with high ceilings; unfortunately, this is not known. Assuming that half of the unit heaters deployed in commercial buildings and all those used in industrial buildings have sufficient ceiling heights to realize 33% to 50% savings, radiant infrared heaters could decrease energy consumption in spaces currently heated by unit heaters by about 0.17 to 0.25 quads.

CTTC - Infrared Radiant Heaters (Cont'd from Page 8)

Market Factors

Several factors have inhibited the market penetration of radiant infrared heaters. Earlier studies show that radiant infrared heaters cost appreciably more than unit heaters, i.e., about a 50% installed cost premium. Radiant infrared heaters also have high surface temperatures, which limits their use in several ways. Hot surfaces can ignite combustible gases, dusts, or vapors in potentially dangerous (i.e., flammable or explosive) concentrations and should not be used in spaces where these conditions may occur. Similarly, high temperatures can also decompose some chemical compounds to form hazardous or toxic materials, so radiant heaters must be avoided or used with special exhaust systems in these situations. Finally, installations must maintain sufficient clearance between radiant heaters, people and combustible materials to avoid overheating-induced stress and fires, respectively.

Limited feedback in comparative testing described earlier from comfort juries also suggests that the unit heaters provided greater comfort than the radiant infrared heaters. Specifically, relative to the radiant heaters, the participants found that the unit heaters heated the body more evenly, i.e., the radiant heaters tended to overheat people's heads and torsos while operating while supplying insufficient heat to the lower body when off. Lastly, although radiant infrared heaters might be expected to provide similar comfort levels with a lower temperature setpoint due to the radiant heating contribution, the comfort juries selected similar temperature settings for both heaters.

On the other hand, radiant infrared heaters have several positive attributes compared to unit heaters. In environments exposed to large quantities of outdoor air, such as open truck loading bays or garages, the radiant infrared heater does a better job of heating people in the exposed areas. Essentially, the radiant heater element and the surfaces heated by the radiant heater continue to heat objects in the room even after the thermal energy in the air has dissipated. In addition, although the aforementioned comfort juries found unit heaters to be more comfortable overall, they preferred the quiet, passive heat transfer of infrared radiant heaters to the noise generated by the fans of operational unit heaters. They also found that, in the building where the test occurred, the unit heaters yielded localized "hot spots" that could be uncomfortable.

Andrew Manos
Chapter Technologies Transfer Committee Chair

Membership

I could like to welcome everyone to a new year of ASHRAE. We have some exciting things planned for this year. We have some exciting things planned for this year. We have aggressive plans for getting new members and growing our group meetings. Please don't wait for a "membership promotion" night if you have any potential new members bring them down to any meeting. We will be sure to make them feel welcome and at home. We have some great programs set up for this year that are sure to be beneficial to all that attend.


See you Soon!!!

Carolyn Arote
Membership Chairman



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