

THE LONG ISLAND SOUNDER

June 2007



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
Ashrae LI History	3
Meeting Schedule	3
PAOE	3
BOG Minutes	4
Program	5
LI Past Presidents	6
Student Activities	6
History	7
Membership	8
Research Promotion	8
CTTC	9
LI Chapter 50th Anniv.	10-12
Ashrae Releases 1-4	13-16
CRC 2007	17,18
Classifieds	19
Advertisements	19,20

President's Message

Greetings: "I would like to take this opportunity to welcome fifteen new members to the Long Island Chapter. Your membership with ASHRAE will prove to be a valuable resource and we look forward to your participation in our chapter activities". That excerpt was from my first newsletter article back in 1999 when I became the membership promotion chair. Doesn't seem like that long ago to me but here I am eight years later writing my last article as Chapter President. Although my membership extends a number of years further back (presentation were done on slide and overhead projectors and the fax machine was the new fangled thing) my first real involvement with the board began in the late ninety's. In retrospect I can only say it's been a great ride. I have worked with some fantastic people, done some good things for the chapter and ASHRAE Society and have enjoyed the times along the way. I can honestly say that my membership with ASHRAE did prove to be a "valuable resource" in many ways.



I would like to thank all of our chapter members for supporting the board and our chapter. You have made my years as an officer and "almost past president" a pleasure and I can only hope that we have given back something just as valuable to you. I would also like to thank all of the officers, board members and committee persons for all their hard work and dedication. You guys have made my presidency a smooth one. Let me not forget all the Regional Officers and folks down at Society who have taken the time to work with us.

CHAPTER MONTHLY MEETING

DATE:	Tuesday, June 12, 2007
TIME:	6:00 PM - Cocktails 7:00 PM - Buffet Dinner
LOCATION:	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
FEES:	
Members -	No Fee
Guest -	
Student -	

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

I have one last message for our members. Continue to support ASHRAE both on a Society and local level with our chapter. Get involved. ASHRAE is and continues to be the backbone of our industry. We're building the future for ourselves and our children so step up, keep your membership going and participate with chapter activities.

In closing I would ask everyone to show the same level of support for our new officers and board as you have shown in the past. Don't forget the CRC coming up in August and it's still not too late to donate to ASHRAE research if you haven't already done so. I look forward to seeing all of you at the June meeting and next season as well when I will be thankfully sitting on the other side of the podium.

John Nally
President - Long Island Chapter

Long Island Chapter Officers & Committees

ASHRAE 2006/2007 OFFICERS

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President	John Nally	631.331.0215	631.928.4625	jn@atiofny.com
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Vice President	Steven Friedman	212.695.1000	212.695.1299	sfriedman@lilker.com
Financial Secretary	Steven Giammona, P.E.	516.224.5214		sgiammona@cameronengineering.com
Treasurer	Richard E. Gerbe	718.269.3753	718.269.3598	rgerbe@trane.com
Secretary	Nancy Román	516.256.4800	516.256.3299	nroman@airdist.com
Board of Governors	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	Craig D. Marshall, P.E.	203.261.8100	203.261.1981	cmarshall@accuspecinc.com

ASHRAE 2006/2007 COMMITTEES











COMMITTEE	NAME	PHONE	FAX	EMAIL
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Webmaster	Richard E. Gerbe	718.269.3753	718.269.3598	rgerbe@trane.com
Nominating	Michael Gerazounis, P.E.	212.643.9055	212.643.0503	mgerazounis@mgjassociates.com
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	212.643.9055 212.695.1000	212.643.0503 212.695.1299	pgerazounis@mgjassociates.com sfriedman@lilker.com

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ASHRAE LI Chapter History...

With petitions and applications in hand, the original members all met on September 12th, 1957 in the auditorium of the Willis Avenue School in Mineola. This was an "organizational meeting" and it was called to order at 8:30 PM by Mr. John Everetts Jr., who was the Society Director of Region 1. Mr. Everetts went on to speak about the "aims, purposes, benefits and history" of the Society, tracing its growth from the first Chapter in 1906. The Long Island Chapter would become the 70th Chapter to be formed. Mr. Everetts also spoke about the various research projects and their impact on the industry. After Mr. Everetts concluded, the meeting was turned over to the new Chairman, Mr. Henry Campbell Jr. who spoke on the purposes and benefits of forming a local chapter. Mr. Campbell went on to ask for volunteers for the necessary committees; Nominating, By-laws, Charter Meeting and Membership. After accepting volunteers, Mr. Campbell asked the Steering Committeemen to turn over the petitions and applications to Mr. Fred Hoffman, Assistant to the Executive Secretary of Society for processing at their next admissions and advancement meeting. The meeting was adjourned at 10:45 PM and there were 52 persons in attendance. The petitions were received at Society on October 2nd, 1957 and on October 12th the Charter for the Organization of the "Long Island Chapter of the Heating and Air Conditioning Engineers" was officially issued. **This year we celebrate the 50th year of the Long Island Chapter and commemorate all those who have made the chapter a success. See pages 11-13 for further details...**

Chapter Monthly Meeting - Program for 2006/2007

September 12, 2006 * At Westbury Manor  Dinner Presentation - Characteristics of Throw, Overhead Air Distribution Fundamentals	February 2007  NATIONAL ENGINEERS WEEK DINNER
October 10, 2006 * At Westbury Manor  Dinner Presentation - Contract Provisions & Risk Aversion	March 13, 2007  Dinner Presentation - Chimney Design & Combustion/Ventilation Requirements for Gas-Utilization Equipment
November 14, 2006 * At Westbury Manor  Dinner Presentation - High Performance Design Guide for Energy Efficient Commercial Buildings RESOURCE PROMOTION & STUDENT ACTIVITIES NIGHT	April 10, 2007  FIELD TRIP - BLUE DIAMOND SHEET METAL Medford, NY (See Program Section for Details)
December 5, 2006  Holiday Party - Westbury Manor	May 7, 2007 * Cherry Valley Club, Garden City, NY  ANNUAL GOLF OUTING
January 9, 2007 * At Westbury Manor  DINNER PRESENTATION BY Dinner Presentation: <i>The ASHRAE Promise: A Sustainable Future</i> BY TERRY TOWNSEND SOCIETY PRESIDENT Joint Meeting with ACCA	May 15, 2007  ASHRAE DISTINGUISHED LECTURER Dinner Presentation - Thermal Energy Storage & Leed
February 13, 2007 * At Westbury Manor  JOINT MEETING WITH SMACNA Dinner Presentation - TBD MEMBER PROMOTION NIGHT	June 12, 2007 * At Westbury Manor PAST PRESIDENTS & OFFICER INSTALLATION
February 2007  ASHRAE Winter Meeting	June 2007 - TBD ASHRAE Annual Meeting
August 2007 - Chapter Regional Conference Region I August 16-18, 2007 - Niagara Falls, NY	

RUNNING PAOE POINTS FOR 2006/2007

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	Chapter PAOE Totals
336	535	255	480	450	1,035	545	3,300

BOG Minutes

A meeting of the Board of Governors was held on Tuesday, April 15, 2007 at the Westbury Manor. Present at the meeting were: Peter Gerazounis P.E., Steven Friedman, Richard Gerbe, Nancy Román, Carolyn Arote, Brian Simkins, Steve Giammona and Alan Goerke. In absence of John Nally, Peter Gerazounis called the meeting to order at 5:05 PM and the following was discussed:

General Discussion- The ballots were opened and 53 votes counted. The results were unanimous, everyone on the board of governors moved up a chair. Andy Manos of James LaSala & Associates was selected for the two year Board of Governor position. Planning for the 50th chapter anniversary dinner cruise next year was discussed. The golf outing was a success and next years date has been set for May 5, 2008. The board was directed to finalize the MBO and update the PAOE points for submission.



Treasurer Report- Rich Gerbe reported a checking account balance of approximately \$27,000.

Programs- Next month's meeting is past presidents night and will not have a technical session. There will be a history trivia event with prizes and an officer installation ceremony.

Research Promotion- Steve Friedman reported \$9,500 total for April and predicts no problem in reaching the goal for this year.

Student Activities- Brian Simkins reported three student scholarships as his goal.

Website- Rich Gerbe reported that the website has been updated.

History- History displays and archives will be brought in on history night in June.

Meeting Adjourned 6:00 PM

Nancy Román
Secretary



June Program

You are cordially invited to our June 2007 Meeting...

Long Island Chapter Year End Celebration “Past Presidents Night” “History Night”



“Student Scholarship Night”



“And the Installation of our New Officers”

DATE:	TUESDAY, JUNE 12, 2007		
Time:	6:00 PM – Cocktails and Hors D'oeuvres 7:00 PM – Buffet Dinner	Fee:	NO CHARGE
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:	Please join us for our ASHRAE year-end meeting celebrating our past presidents and new officers. There will be no charge for our chapter members and guests, and we have arranged for a special buffet dinner and open bar for the evening. Our past presidents will be asked to talk a little about their ASHRAE experience during their board years and we suspect there will be some interesting stories. We will be having a Long Island Chapter trivia contest with prizes and our historical archives will be on display. The winner of our student scholarship will be present to receive their awards and we will finish off the evening with the installation of our new officers. Please mark your calendar for this special day and join us for some great conversation and excellent food and spirits compliments of the chapter.		

CHAPTER MAY NOT ACT FOR SOCIETY

An International Organization



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

What's Next: It has been a pleasure meeting new people and working with students interested in ASHRAE. The Long Island chapter is great place to learn new ideas and share some old ones as well. I look forward to helping our students grow in the future. Please help me help you get the engineers we need. If you have any ideas or contacts that feel will help our LI chapter grow in the future please let us know.

Don't miss a great opportunity for internships: Employers, meet students! This is a new ASHRAE program for business owners and employers to post their available internships, and for ASHRAE student members to search and apply for positions meeting their search criteria! There is no better way for students to gain industry experience! And there is no better way for employers to get the cream of the crop on their staff!

Valuable Resources: Student Activities offers a wide range of resources to help you learn the benefits of becoming a student member of ASHRAE and about careers in HVAC&R.

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

Brian Simkins
Student Activities Committee



History

In efforts to share chapter local history, I interviewed a long time member and past president, Michael Gerazounis, P.E.. Below are the details of my interview:

Name:	Michael Gerazounis, P.E.	Company:	MG Engineering, P.C.
Type of Business:	Consulting Engineering Firm	Location:	New York, NY

Biographical sketch: Born in 1964 to immigrant parents of Greek descent Michael is the elder of 2 sons. He grew up and resided in the same home in Woodside Queens till the age of 21. As a product of a public school education that included a pre engineering curriculum at Newtown High School he went on to Polytechnic Institute of New York and received a Bachelors degree in Mechanical Engineering. While in school, he worked in a variety of jobs such as restaurant, messenger and furniture moving. He is currently married to his wife Glenda of 16 years and has two great sons Christian and Michael ages 11 and 14 respectively.

What attracted you to engineering and/or the HVAC industry? While going to Newtown High School in addition to an affinity to the math and science classes I was drawn to mechanical and architectural drafting and the various shop classes taught as part of the curriculum. This made me want to proceed to go to engineering school and follow it as a career.

What was your first job in the HVAC industry and where did it lead? My first job out of school was at Lizardos Engineering Associates (LEA) where for the six years I was there I was fortunate to have several tremendous mentors that was like an extension of school. They taught me the trade and groomed me for my future of owning my own firm.

Describe the industry at that time? When I first started it was 1985 and was time of great flux. Most work at the time was in the defense industry and while companies like Grumman and Fairchild Republic were operating much work was going off the island and the economy in general was heading into a recession. Needless to say there was a great deal of unemployment at the time and it was good to be working.

How and when did you get started in ASHRAE? About 1989 or so Don Stahl, an Associate with LEA, was very active in the Long Island Chapter and on the Board and recommended that I join and get the opportunity to meet others in the industry by attending the monthly meetings and possibly join the Board as well.

What was your ASHRAE chapter and/ or regional and Society experience? As always the Chapter is full of colorful characters and when I first became active it was even more so. It was interesting to see the dynamics work where from sometimes very heated conflicts usually some good ultimately was achieved. Sometimes it was very political.

What were the major issues facing the industry at that time? Many issues at the time had to deal with energy efficiency and the effects of refrigerant gasses on the environment. It was the start of DDC BMS systems, VAV design and the reduction and ultimate elimination of CFC's in the industry.

How was ASHRAE interacting with the public? In my opinion ASHRAE still does not interact with the public to a great extent. So much of what we do touches the everyday person yet no one really knows the organization. A more public campaign making more people aware would be a great benefit to all.

On what ASHRAE committees did you serve? On my time on the Board I did Research, Education and Membership.

What people stand out as influences on you? Besides my parents and other family members the people who I can honestly have most greatly influenced my life is Bassem Rizk a very good friend I grew up with and went to school with from grammar school all the way up to college however passed away in his late 20's as well as my LEA mentors which include George and Evans Lizardos, Dana Harris and Don Stahl.

What events changed ASHRAE and the industry? The Oil embargo of the 70's and the effects of Global warming have probably had the greatest impact on the industry followed by the events of 9/11 that leads to safer buildings.

What has ASHRAE meant to the industry's growth? From the research and development spurred by ASHRAE industries in the various fields of energy and refrigerants have grown exponentially due to the direction led by ASHRAE.

What advice would you give to a young person entering the HVAC field? The HVAC industry is filled with good opportunities and good people. As with anything the more effort you put in the more you will get out of it. Biggest thing is to learn, ask questions and meet people who can help you.

What other interests and/or hobbies do you have? My hobbies include golf both watching and playing, and interests include sightseeing and reading about history.

The rest is history.....Have a great summer!

Nancy Román, Chapter Historian

Research Promotion

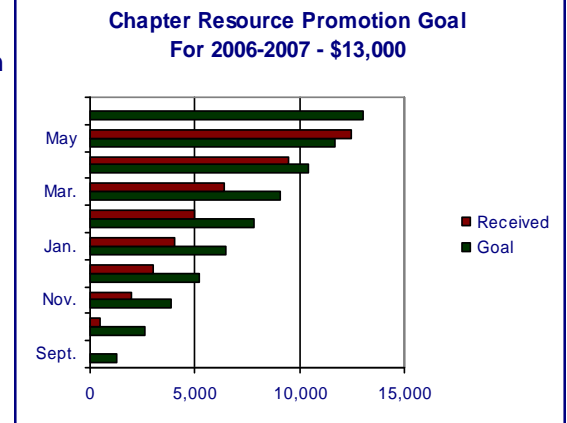
Fellow Ashrae members, I am very happy to report that through all of the hard work and dedication of many individuals, our chapter has once again reached and actually exceeded the financial goal of **\$12,500.00**. I await a final report from Ashrae Headquarters' but anticipate that it will as expected. Other financial contributions towards our research goal are also attributed to the 50/50 raffle at each meeting and the golf outing 50/50 raffle as well.

I would like to thank all of the individuals and companies who have contributed to a most worthy cause. It is invigorating to see the amount of support from those organizations and individuals who have the profession's best interest.

On behalf of the Long Island Board of Governors, we thank you for your continued support of Ashrae. Look forward to seeing all of you at our June meeting and enjoying the summer with friends and family.

Mr Michael Gerazounis, P.E.
Mr Robert A Rankel
Mr Marcel A Bally
Mr Andrew J Garda
Mr Fred H Weber
Mr Carl E Graber, P.E.
Mr Christopher M Schwarz
Mr David G Kwalbrun
Lizardos Engineering Associates PC
Mr Jerome A Silecchia
Mr George A Wallace
Mr Patrick J Lama
Mr Jerome T Norris
Mr Arthur A Huebner
Mr Michael O'Rourke, P.E.
Mr Joseph V Marino, P.E.
Mr Peter D Ruppert
Mr Raymond G Schmitt
Mr John D Nally
Mr Ronald J Kilcarr, PE
Mr Craig D Marshall, PE
Mr Roy Gustafson

Mr Frank D Morgigno
Mr Steven D Friedman
Mr Steven R Giammona, P.E.
Mr Robert A Leventhal
Accuspec Inc
MWSK Equipment Inc
Twincos Supply Corporation
Ms Nancy Roman
Mr Peter Gerazounis, P.E.
Bladykas Engineering P C
James Lasala & Associates
Applied Technologies of NY Inc
Anron Heating & Air Conditioning Inc
Mr. Tom Nawabi
Bern & Bob Leventhal, Inc.
EMTEC Consultants P.C.
Brandon Associates
Lilker Associates
County Fair Air Conditioning
Mr. Andrew Braum, P.E.
Mr. Rick Gaska
Mr. John Restaino



Steven Friedman
Research Promotion Committee Chair

Membership

It is the end of the year, and we will be having our last meeting June 11th. This is your last chance to bring down a guest to meet us all, and see what they think. We had a great year, and we have quite a few new members that have joined us. Let's keep the spirit alive over the summer and get people back in September.

I will be continuing my position as Membership Chairperson next year, but if anyone is interested in being on the committee please let me know. I would like to thank you all again for the work you have done this year, and your continued membership with ASHRAE. I look forward to seeing you all again next year!

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 driers. 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.
- 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 sight 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 Technologies Transfer Committee Chair

ASHRAE LONG ISLAND CHAPTER 50TH YEAR ANNIVERSARY CELEBRATION**ASHRAE Long Island Chapter 6
Celebrates it's 50th Anniversary**

Please join us for a celebration cruise from Long Island Sound to NY Harbor.



Four Hour Cruise To The Statue Of Liberty: Enjoy the cool breeze as you sail through the majestic gateway of America and view the spectacular Manhattan skyline and its towering bridges. Your cruise features a delicious buffet style cuisine, open bar, musical entertainment and dancing. Relax aboard the M/V Sterling as she sets sail from Long Island's Port Washington en route to the Statue of Liberty. Your cruise offers a view of Long Island's Gold Coast and Millionaires Row of Kings Point, New York City's famous skyline and the ultimate close up view of the Statue of Liberty in the New York Harbor.

ASHRAE LONG ISLAND CHAPTER 50TH YEAR ANNIVERSARY CELEBRATION

First Level: The first level of the M/V Sterling has Air conditioned Forward and Main Salons fully enclosed with bar, restrooms, color TV with VCR, carpeting and dining tables.



Second Level: The promenade deck has a large awning and side curtains (in case of inclement weather). Dining tables, chairs and full carpeting comprise this deck. The Promenade Deck offers exceptional sightseeing and a spacious dance floor for musical entertainment.



We are limited to 132 passengers and we expect it to be a sellout. Please reserve your spots as soon as possible. Sponsors for the ASHRAE 50th Anniversary Celebration will be acknowledged in the commemorative journal and at the event.

See following page for Reservation Form.

ASHRAE LONG ISLAND CHAPTER 50TH YEAR ANNIVERSARY CELEBRATION

Fax or email entire sheet

Place: Lady Liberty Cruises
Manhasset Bay Marina
Port Washington, NY
www.ladylibertycruises.com

Date: Friday, September 28, 2007; 7 pm- 11 pm.
Boat departs promptly at 7pm - *Be there early!*

Name: _____
Company: _____
Address: _____
City/State/Zip: _____
Phone: _____
Fax: _____
Email: _____

Cruise tickets: \$75 x Qty _____ = \$_____

Sponsorship: \$500 Gold sponsor = \$_____
\$250 Silver sponsor = \$_____

Total: \$_____

Gold sponsor: Full page ad in the commemorative journal.

Silver sponsor: Half page ad.

Sponsors: Please send your document for publication in the journal.

Checks should be made payable to: **ASHRAE LI Chapter**

Mail checks to:

Alan Goerke

Liebert Corp

1250 Broadway, Suite 2300

New York, NY 10001

Ph 212-239-7729

Fx 212-239-7723

Please contact Alan Goerke for further information.

ASHRAE Release No. 1

ASHRAE Hosts Congressional Visits Day Breakfast

ATLANTA – ASHRAE will kick off this week's Congressional Visits Day by hosting a breakfast on behalf of the Science-Engineering-Technology Work Group (SETWG).

The day brings together engineers of all disciplines to meet with Congressional members and staff and officials from the President's Office of Science and Technology Policy to help improve scientific policies within the federal government.

The breakfast takes place May 2 and will be held in the Rayburn House Office Building. Congressman Mike Honda (D-Calif.), who serves on the House Appropriations Committee, is scheduled to speak.

In addition, ASHRAE members will meet with Rep. John Peterson (R-Pa.), who serves on the House Appropriations Committee, and Senator Jeff Bingaman (D-N.M.) and Senator Pete Domenici (R-N.M.), both of whom serve on the Senate Energy and Natural Resources Committee.

"ASHRAE has a key role to fill in maintaining the global competitiveness of U.S. science and technology and in solving the pressing worldwide problems of energy supply, protection of the environment, and indoor environmental quality," Bill Bahnfleth, an ASHRAE member who will take part, said. "SETWG Congressional Visits Day provides an important opportunity for ASHRAE to join with other engineering, science, and technology organizations in meeting with our elected leaders to discuss these issues and to encourage support for the research, education and other programs needed to address them."

SETWG brings together professional, scientific and engineering societies, higher education associations, institutions of higher learning, trade associations and individual companies. The group is concerned about the future vitality of the U.S. science, math and engineering enterprise.

The May 2 event follows a research and development briefing held on May 1 at the American Association for the Advancement of Science and an evening reception held on Capitol Hill honoring Speaker of the House Nancy Pelosi and Sen. Lamar Alexander who will be recognized for leadership in the areas of U.S. innovation and competitiveness.

ASHRAE, founded in 1894, is an international organization of some 50,000 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

Purdue Professor Chosen for First ASHRAE D.C. Fellowship

ATLANTA – An associate professor from Purdue University has been selected for ASHRAE's first Washington, D.C., Federal fellowship.

"I am eager to learn about how energy policies and research strategies are formulated at the federal level," William "Bill" Hutzel, P.E., who works in Purdue's College of Technology, Department of Mechanical Engineering Technology, said. "I hope to play a small role in advocating for sustainable design practices in buildings. I am proud to be representing ASHRAE because it is the professional society ideally suited for leadership on this important topic."

The one-year fellowship allows participants to work in the federal government in a technical advisory role. This year's Fellow will be placed on Capitol Hill, most likely in the Science Committee staff office.

At Purdue, Hutzel teaches undergraduate courses in thermodynamics, controls, fluid mechanics and HVAC. He has developed a modern laboratory to teaching graduate-level facilities engineering courses and conducting applied research. Recent projects have designed an air flow testing laboratory for heat recovery equipment, used Web-enabled building controls for remotely accessible laboratory experiments, and evaluated the performance of evacuated tube heat pipe solar collectors.

He serves as co-faculty advisor for the ASHRAE Purdue Student Branch.

The fellowship is designed to educate participants on the inner workings of federal policy-making, to provide scientific guidance and analysis to decision-makers, and to increase the visibility and involvement of scientists and engineers in the public policy arena. The fellowship runs from September through August and typically begins after a two-week orientation sponsored by the American Association for the Advancement of Science.

ASHRAE members interested in applying for the 2008 Fellowship can contact Doug Read, ASHRAE program director of government affairs, at e-mail dread@ashrae.org.

ASHRAE, founded in 1894, is an international organization of 50,000 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.

Editors Note: A photo of Hutzel is available upon request.

ASHRAE Release No. 3

ASHRAE to Provide Energy Guidance in Clinton Retrofit Program

ATLANTA – ASHRAE will play a primary role in former President Bill Clinton's initiative to reduce energy consumption in existing buildings by providing design guidance and tools to reach energy efficiency targets.

On May 16, Clinton announced the creation of a global Energy Efficiency Building Retrofit Program, a project of the Clinton Climate Initiative (CCI). This program brings together four of the world's largest energy service companies, five of the world's largest banks, and 16 of the world's largest cities in a landmark program designed to reduce energy consumption in existing buildings.

CCI and its partners, including the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and U.S. Green Building Council, will assist participating cities with their initiation and development of programs to train local workers on the installation and maintenance of energy saving and clean energy products.

"Climate change is a global problem that requires local action," said President Clinton. "The businesses, banks and cities partnering with my foundation are addressing the issue of global warming because it's the right thing to do, but also because it's good for their bottom line. They're going to save money, make money, create jobs and have a tremendous collective impact on climate change all at once. I'm proud of them for showing leadership on the critical issue of climate change and I thank them for their commitment to this new initiative." "ASHRAE is in the best position to provide immediate support to the cities seeking guidance through the Clinton Climate Initiative due to our 30-year involvement in design guidance for energy conservation for both new and existing buildings," ASHRAE President Terry Townsend said.

Townsend notes that most guidance developed for the HVAC&R industry focuses on new construction, which represents only 2 percent of the building stock in the United States.

"We must broaden our focus to include existing buildings, which accounts for the other 98 percent," he said.

As such, ASHRAE currently is working to provide energy guidance in existing buildings through its Advanced Energy Design Guide series. This existing buildings guide, developed in collaboration with the Illuminating Engineering Society of North America and the U.S. Green Building Council with participation by BOMA and the U.S. General Service Administration, will show building owners how they can initially reduce their energy consumption by 30 percent. It is tentatively scheduled to be available in fall 2008. ASHRAE also provides guidance through its Standard 100, Energy Conservation in Buildings, which provides procedures and programs essential to energy-conserving operation, maintenance and monitoring, and Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings.

The Energy Efficiency Building Retrofit Program will provide both cities and their private building owners with access to the necessary funds to retrofit existing buildings with more energy efficient products, typically leading to energy savings between 20 to 50 percent. Those involved include:

Honeywell, Johnson Controls, Inc, Siemens and Trane will conduct energy audits, perform building retrofits, and guarantee the energy savings of the retrofit projects.

Citibank, UBS, Deutsche Bank, ABN AMRO, and JP Morgan have agreed in principle to commit to arrange \$1 billion each to finance cities and private building owners to undertake these retrofits at no capital cost, doubling the global market for energy retrofit in buildings.

These banks will work alongside energy efficiency finance specialist Hannon Armstrong and CCI to develop effective mechanisms to deploy this capital globally. An initial group of 16 of the world's largest cities has agreed to participate in the retrofit program, and offer their municipal buildings for the first round of energy retrofits: New York, Chicago, Houston, Toronto, Mexico City, London, Berlin, Johannesburg, Delhi, Mumbai, Karachi, Tokyo, Seoul, Sao Paulo, Bangkok, and Melbourne.

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ASHRAE Release No. 4

Sustainable Buildings Standard to Define Green Buildings

ATLANTA – A proposed new standard that will provide minimum guidelines for green building practices is nearing completion. Applicable to new commercial buildings and major renovation projects, it will address energy efficiency, a building's impact on the atmosphere, sustainable sites, water use efficiency, materials and resources, and indoor environmental quality.

Proposed Standard 189, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings, is being developed by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) in conjunction with the Illuminating Engineering Society of North America (IESNA) and the U.S. Green Building Council (USGBC). This is the first such green building standard in the United States.

The proposed standard has been released for public review. Comments will be accepted through July 9, 2007.

"Standard 189P will become the benchmark for all sustainable green buildings in the United States because it is being developed for inclusion into building codes," said committee chair John Hogan. "This means that owners and designers will have a consensus-based document that will set the minimum criteria that a building must satisfy in order to be considered a green building. The real impact of Standard 189P is that ASHRAE, along with IESNA and USGBC, are taking advanced energy conservation guidance mainstream for the general public's benefit."

John Hogan, chair of the Standard 189 Project Committee, notes that the standard is not a building rating system but rather a compilation of criteria that must be met in order for local building code officials to provide a Certificate of Occupancy for a facility.

Energy efficiency will be a large part of the standard. The goal is to achieve a minimum of 30 percent reduction in energy cost (and carbon dioxide equivalent) over that in ANSI/ASHRAE/IESNA Standard 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings, which provides minimum energy efficiency design requirements for buildings except low-rise residential buildings and is the basis for building codes worldwide.

The standard shows leadership in renewable power generation on-site by having high-performance, green buildings avoid a total reliance on conventional energy sources. The committee that wrote the standard wants building projects to produce a minimum percentage of their peak electrical load through on-site generation such as by photovoltaic panels or equivalent solar water heating systems.

Another important part of the proposed standard will be water use efficiency. Hogan said the standard may require that interior water achieve a minimum of 25 percent reduction through improvements from the Energy Policy Act of 1992 for plumbing fixtures and strategies for reclaiming water in other areas. Exterior water systems would have more sophisticated controls and not use potable water, he said.

Hogan said one topic of interest to the committee is sustainable sites. Members are discussing requiring construction to take place appropriate sites where construction already exists or on a "greenfield" site that is close to high-density areas or has access to mass transit.

In the area of indoor environmental quality, the committee is considering requiring that supply outdoor air exceed the minimum requirements of ASHRAE 62.1-2007, Ventilation for Acceptable Indoor Air Quality. Also being discussed are the use of low-emitting materials and installation of CO2 sensors to monitor densely-occupied spaces.

The committee is also looking at requirements for a construction plan, a transportation management plan, and an indoor air quality (IAQ) management plan, according to Hogan, to reduce materials and energy consumption as well as to reduce carbon emissions.

Proposed Standard 189P will be available only during public review periods. To read the addenda or to comment, visit www.ashrae.org/publicreviews.

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ASHRAE Region 1 2007 CRC - Niagara Falls, NY



ASHRAE Region 1 Chapter Regional Conference 2007



Hosted by:

***The Niagara Frontier Chapter
Niagara Falls, NY***



August 16th – 18th, 2007

CRC 2007 Agenda

Thursday, August 16, 2007

Registration – Grand Foyer	All Day
Golf Outing – River Oak CC, Grand Island, NY	10:00 am – 3:00 pm
Welcome & 1 st Business Meeting	4:15 pm – 6:30 pm
Welcome Reception	7:00 pm – 10:00 pm

Friday, August 17, 2007

Registration – Grand Foyer	All Day
Breakfast	7:00 am – 9:00 am
Caucus	8:00 am – 9:15 am
Chapter Operations	9:30 am – 11:45 am
Lunch with Distinguished Lecturer	12:00 pm – 1:30 pm
Executive Session	1:45 pm – 4:00 pm
President's Dinner	6:00 pm – 10:00 pm

Saturday, August 18, 2007

Registration	7:30 am – 10:00 am
Breakfast	7:00 am – 9:00 am
2 nd Business Meeting	8:00 am – 9:30 am
Workshops	9:30 am – 12:00 pm
Awards Luncheon	12:00 pm – 2:30 pm
3 rd Business Meeting (If Required)	2:45 pm – 4:30 pm

ASHRAE Region 1 2007 CRC - Niagara Falls, NY



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Reservation Deadline: July 16, 2007

(Please be advised our meeting dates are concurrent with peak season for Niagara Falls and room rate will double & triple during August – get your hotel reservations early.)

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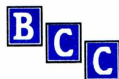
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