

March 2005

THE LONG ISLAND SOUNDER



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

www.ashraeli.org

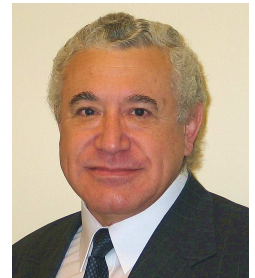
American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.

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President's Message

ASHRAE 2005 WINTER MEETING - February was a busy time for members who participate at society level. For those of you who have not attended one yet, each winter meeting is full of activities packed in just four days. Board and committee meetings are in progress everywhere. Running in parallel are the technical programs specially prepared by technical committees in each area of expertise. And if that were not enough, the AHR expo takes place concurrently, offering a view of products from 1700 manufacturers. It's truly the event of the year for an ASHRAE member.



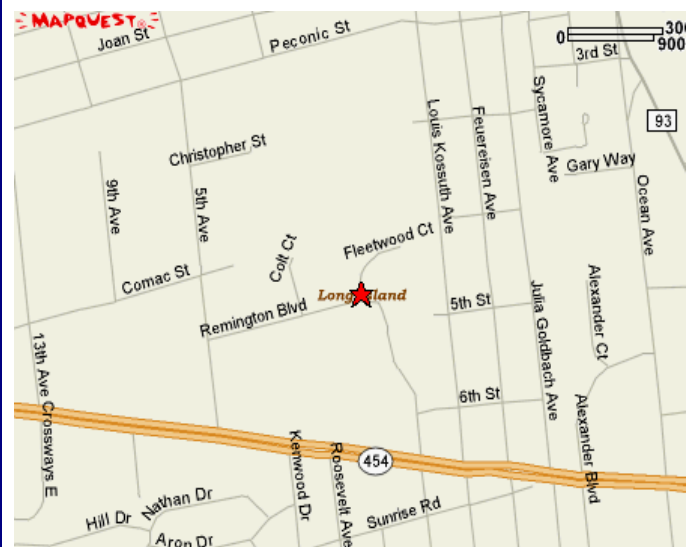
If you did not have the opportunity to attend the technical sessions, you may be interested to know that society is releasing a DVD with complete audio recordings of all the seminars, forums, and symposiums that were presented during the event. Check bookstore at www.ashrae.org.

2005 ENGINEERS' WEEK - This year as in previous years, our chapter was well represented at the Engineer's Week Dinner. All the engineering societies and organizations in Long Island attended the event, which is organized by the Engineers Joint Committee of Long Island (EJCLI). Please let us know if you are interested in becoming the liaison between our chapter and EJCLI in future activities.

Cont'd. on Page 3

ANNUAL FIELD TRIP

DATE:	Tuesday, March 8, 2005
TIME:	6:00 PM – Islandaire Company Presentation 6:45 PM – Plant Tour 7:00 PM – Dinner (Sandwiches & Salad)
LOCATION:	ISLANDAIRE, INC., 10 Fleetwood Court, Ronkonkoma, NY Phone 631-471-2900 - See Map on Right
FEES:	
Members -	\$15.00
Guest -	\$15.00
Student -	\$ 5.00



Long Island Chapter Officers & Committees

ASHRAE 2004/2005 OFFICERS

POSITION	NAME	PHONE	FAX	E-MAIL
President	Claudio Darras, P.E.	(212) 354-5656	(212) 354-5668	cdarras@akf-eng.com
President-Elect	Craig D. Marshall P.E.	(203) 261-8100	(203) 261-1981	cmarshall@accuspecinc.com
Vice President	John Nally	(631) 331-0215	(631) 928-4625	jn@atiofny.com
Financial Secretary	Peter Gerazounis, P.E.	(212) 643-9055	(212) 643-0503	pgerazounis@mgjassociates.com
Treasurer	Steven Friedman	(212) 253-7303	(212) 253-6512	sfriedman@tsfengineers.com
Secretary	Steven Giammona, P.E.	(212) 643-9055	(212) 643-0503	sgiammona@mgjassociates.com
Board of Governors	Richard E. Gerbe	(516) 484-1020	(516) 484-0926	reg@leapc.com
Board of Governors	James Hayes	(201) 247-7286	(718) 228-6721	jhayes@geru-usa.com
Board of Governors	Andrew S. Braum, P.E.	(516) 785-4200	(516) 785-9148	asb@asbengineering.com

ASHRAE 2004/2005 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	E-MAIL
Programs and Special Events	Craig D. Marshall, P.E.	(203) 261-8100	(203) 261-1981	cmarshall@accuspecinc.com
Membership	Steven Giammona, P.E.	(212) 643-9055	(212) 643-0503	sgiammona@mgjassociates.com
Chapter Technology Transfer	Richard E. Gerbe	(516) 484-1020	(516) 484-0926	reg@leapc.com
Newsletter Editor	Steven Friedman Liset Pena	(212) 253-7303 (212) 643-9055	(212) 253-6512 (212) 643-0503	sfriedman@tsfengineers.com lpena@mgjassociates.com
Resource Promotion	Peter Gerazounis, P.E.	(212) 643-9055	(212) 643-0503	pgerazounis@mgjassociates.com
Historian	John Nally	(631) 331-0215	(631) 928-4625	jn@atiofny.com
Student Activities	John Nally	(631) 331-0215	(631) 928-4625	jn@atiofny.com
Webmaster	James Hayes	(201) 247-7286		jhayes5598@aol.com
Honors, Awards & Publicity	Ray Schmitt	(631) 585-6800	(631) 471-4950	therevrgs@aol.com
Nominating	Michael Gerazounis, P.E.	(516) 482-3207	(516) 482-3790	mgerazounis@mgjassociates.com
CRC General Chair	Alan Goerke, P.E. Frank Morgigno	(631) 331-0215 (631) 331-0215	(631) 928-4625 (631) 928-4625	ag@atiofny.com fm@atiofny.com
Reception and Attendance	Nancy Roman Carolyn Arote	(516) 556-4800 (516) 556-4800	(516) 256-3299 (516) 256-3299	nroman@airdist.com carote@airdist.com
Public Relations & Engineering Joint Council of LI	Richard E. Gerbe	(516) 484-1020	(516) 484-0926	reg@leapc.com
Golf Outing	Alan Goerke, P.E. Craig D. Marshall, P.E.	(631) 331-0215 (203) 261-8100	(631) 928-4625 (203) 261-1981	ag@atiofny.com cmarshall@accuspecinc.com

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President's Message (Cont'd. from Page 1)

FEBRUARY MEETING - February was our annual joint meeting with New York, New Jersey and Bi-State Chapters. The event's theme was centered on Society matters and was a great success. This year's distinguished speaker was Lee W. Burgett, P.E., ASHRAE President Elect, who offered an historical perspective leading to early ASHRAE involvement in Safety Codes, and the more recent development of high profile Standards for Energy Efficiency and Indoor Air Quality. In the second half of his presentation, Mr. Burgett eloquently discussed how ASHRAE Codes and Standards influence today's HVAC&R engineering practice, and how proposed policy might influence it in the future. An attentive audience that surpassed 110 members enjoyed the event, which took place at the United Nations International School in Manhattan.

MARCH FIELD TRIP - This year Craig Marshall organized a visit to ISLANDAIRE, Long Island manufacturer of AC & Htg. Equipment. Members will have the opportunity to see during the tour how a PTAC unit as well a complete line of HVAC equipment is designed and manufactured. Knowledgeable representatives will be available to answer all your questions.

Please refer to promotion for further details and directions.

ANNOUNCEMENTS - The LI Chapter will have a whole day seminar (7 PDUs) on May 12, 2005. We are grateful of Rich Gerbe's initiative and effort to organize this event named "Economic Analysis of Engineering Projects: Life-Cycle Costing". The seminar is provided by the ASHRAE Learning Institute and it will require pre-registration.

Please mark your calendar, and look for promotional material which will be sent to you shortly.

Thank you for your continuing support of our Chapter.

Claudio Darras, P.E.
President - Long Island Chapter

Chapter Monthly Meeting - Program for 2004/2005

September 14, 2004 * At Westbury Manor  Dinner Presentation - The Mechanical Engineer's Role in Sustainable Design & The LEED Rating Sys	March 8, 2005 FIELD TRIP Island Aire Facility Ronkonkoma, NY PTAC Units & Water Source Heat Pumps
October 12, 2004 * At Westbury Manor  ASHRAE DISTINGUISHED LECTURER Dinner Presentation - Buying or Selling, The Nuts & Bolts of Commissioning	April 12, 2005 * At Westbury Manor MENTOR NIGHT Dinner Presentation - VAV System Design
November 9, 2004 * At Westbury Manor  JOINT MEETING WITH SMACNA-LI Dinner Presentation - HVAC Essentials	April 13, 2004 * Location TBD ASHRAE Satellite Broadcast - Mold in our Building Environment
December 2004  Holiday Cocktail Party @ Westbury Manor	May 10, 2005 * At Westbury Manor REFRIGERANT NIGHT Dinner Presentation - Trade-Offs in Refrigerant Selections
January 11, 2005  JOINT MEETING WITH ACCA-LI Dinner Presentation - ASHRAE 62 Most Recent Updates	May 2005 ANNUAL CHAPTER GOLF OUTING
February 5-9, 2005  ASHRAE Winter Meeting and Trade Show, Orlando, FL www.ashrae.org / www.ahrexpo.com	June 14, 2004 * At Westbury Manor PAST PRESIDENTS & OFFICER INSTALLATION Dinner Presentation - ASHP - Compounding Facilities Requirements for Hospitals
February 16, 2005, UN International Plaza, NYC  Joint Meeting with NYC, Bi-State & NJ Chapters (ASHRAE President Elect 2004-2005)	June 2005 ASHRAE Annual Meeting
February 23, 2005 - NATIONAL ENGINEERS WEEK Dinner 	
August 2005 - Chapter Regional Conference Region I - New Jersey	

March Chapter Meeting - Program



ASHRAE LI CHAPTER'S ANNUAL FIELD TRIP - MARCH 8, 2005

- Factory Visit to Islandaire - Ronkonkoma, NY



DATE:	TUESDAY, MARCH 8 th , 2005		
Program:	5:00 PM – Board of Governors Meeting @ Islandaire	Fee:	\$ 15.00 Member \$ 15.00 Guest \$ 5.00 Student
	6:00 PM – Islandaire Company Presentation 6:45 PM – Plant Tour 7:00 PM – Dinner (Sandwiches & Salad)		
LOCATION:	ISLANDAIRE, INC., 10 Fleetwood Court, Ronkonkoma, NY Phone 631-471-2900		
About the Tour/ Presentation:	<p>The Tour/Presentation will cover the following Topics:</p> <ul style="list-style-type: none"><input type="checkbox"/> <i>History of the Company.</i><input type="checkbox"/> <i>History of the PTAC Products.</i><input type="checkbox"/> <i>History of the Water Source Heat Pumps.</i><input type="checkbox"/> <i>The future of the industry for the replacement and the new construction market.</i> <p>Islandaire, Inc. is the fastest growing specialty air conditioning and heating manufacturer in the country. Founded in 1992, it has grown into a multi-million dollar company in just a few short years. Islandaire builds a full complement of high quality thru-the-wall replacement air conditioners and heat pumps, water source heat pumps, and gas units in Ronkonkoma, New York. Each model fits perfectly into the existing original wall sleeve assembly.</p>		
Directions:	<p>Long Island Expressway East (495E). Take the Long Island Expwy. to exit 59 Ocean Ave. (south) Make a right onto Ocean Ave. go about 3 miles to Veterans Memorial Hwy. (Rte.454); (large intersection, airport field on left). Make a right onto Veterans Memorial Hwy, go four (4) traffic lights. At fourth light make right onto Remington Blvd. (Ronkonkoma Deli/Carvel on corner) make second right onto Fleetwood Court. Islandaire is second building on left.</p>		

Pre-registration not required. Hope to see you there!

CTTC

Updated ASHRAE Ventilation Standard Published

Lessons learned from 30 years of ventilation practices as well as user input and developments in research led to key changes to the American Society of Heating, Refrigerating and Air-Conditioning Engineers' (ASHRAE) 2004 ventilation standard.

ANSI/ASHRAE Standard 62.1-2004, *Ventilation for Acceptable Indoor Air Quality*, specifies minimum ventilation rates and indoor air quality requirements for commercial and institutional buildings.

"While the purpose of the standard has remained consistent since it was first published in 1973, the means of achieving the goal of providing acceptable indoor air quality have evolved," David Butler, chair of the Standard 62.1 committee, said. "The 2004 standard provides users with better tools to help get the job done."

The standard incorporates 17 addenda. Among the major changes is revision of the Ventilation Rate Procedure to reflect recent information regarding ventilation impacts on indoor air quality and to clarify the adjustments necessary for space air distribution and system efficiency of multi-zone recirculating systems.

The breathing zone ventilation rate now includes both an area-related component and an occupant-density-related component, which are added together to determine the required ventilation for the space, Butler said.

The IAQ Procedure was modified by converting the material in the standard into requirements that are stated in mandatory and enforceable language.

Also revised was the minimum ventilation rate table to apply only to no-smoking spaces by deleting smoking lounges from the list of occupancy categories. Also, some rates were lowered based upon their application to no-smoking spaces only. For smoking-permitted spaces, additional (but unspecified) ventilation in excess of the rates listed in the table is required.

The standard also includes a new informative appendix, *Appendix G, Application and Compliance*, which provides guidance on when the standard applies to new and existing buildings. It also contains a code-intended language version that could be adopted by jurisdictions that have not adopted a building code. To order, contact ASHRAE Customer Service at 1-800-527-4723 or online at www.ashrae.org.

Richard E. Gerbe - Chapter Technology Transfer Committee Chair

ASHRAE NY Chapter Announcement

ASHRAE NY Chapter

Engineering, Architectural and
Security Approaches in Protecting
People and Buildings Post 9/11

ConEd Conference Center, 4 Irving Place, NY, NY

Cross-cutting Issues for:

- Architects
- Engineers
- Property Managers
- Building Owners
- Security Professionals

SAVE THE DATE

Tuesday, April 26th, 2005

8:30 AM to 5:00 PM

CEU's and PDH's will be awarded.



Please register online at:
<http://ashraeny.org/rsvp>

Early Registration on or before
4/11/2005 **Cost \$200.00**

Late Registration Cost: \$225.00
For Pay Pal payment add
\$6.00 for handling

For more information please contact:
Mrimpel@unis.org

**Attendees will receive
course binder,
certificate of attendance worth
7 PDH for P.E and .7 CEU all others.**



Long Island Chapter - Past Presidents

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



Membership

A reminder to the general membership to those who have not paid your Society and Chapter dues, please do so at your earliest convenience.

We are having a good year with new member recruitment. A special thanks to our members who have recruited their co-workers. I appreciate all of your efforts.

I would like to take this opportunity to review a few of the reasons for being a member in ASHRAE. First, ASHRAE keeps us informed of the latest technologies and is instrumental in reporting field tests and findings. The articles published in the ASHRAE Monthly Journal are an excellent source of information. Second, standards developed by ASHRAE are key when designing or constructing a project. Third, communications with our chapter members keep you in touch with other industry professionals. You will find the answer to your questions here and your knowledge will serve to help others.

See you at our March Field Trip.

Steven Giammona, P.E.
Membership Chair

RUNNING PAOE POINTS FOR 2004/2005

Chapter Members	Membership Promotion	Student Activities	Resource Promotion	History	Chapter Operations	CTTC	Chapter PAOE Totals
353	0	290	113	275	0	550	1228

History - "Beyond Creature Comforts"

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.

John Nally
Chapter Historian

Resource Promotion

I would like to once again thank those individuals who have contributed to this year's Resource Promotion. Unfortunately we are still far from reaching this year's goal. This month I will be sending you a letter asking for your continued financial donation. Please take a moment of your time and write a check. I am asking everyone to contribute to this worthy cause.

The research for technology solely depends on your donations.

Thank you in advance.

Peter Gerazounis, P.E.
Resource Promotion Chair



ASHRAE Learning Institute - May 12, 2005



ASHRAE Long Island Chapter

Presents:

ASHRAE Learning Institute: - Economic Analysis of Engineering Projects - Life Cycle Costing

Thursday, May 12, 2005

Date/Time:	THURSDAY, MAY 12, 2005 8:30 AM – 4:30 PM EST	Fee:	\$250.00 (\$35.00 / PDH) - Includes Seminar, Materials, Breakfast, Lunch & Refreshments.
Location:	Lizardos Engineering, 200 Old Country Road, Mineola, NY 11501 (Lower Level Conference Room)		
About the Presentation:	<p>Beginning with a review of basic economic definitions, this seminar will focus on the “nuts and bolts” of how to perform a proper life cycle cost analysis. Multiple techniques for further evaluation are covered, with special treatment of uncertainty and how it can be minimized. Students will complete a series of exercises and class problems that demonstrate the methods presented. Also included is a demonstration of the NIST Building Life Cycle Cost software program.</p> <p>This is an excellent opportunity to view a high quality education program presented by a nationally recognized instructor. All technical information is free of commercialism and peer reviewed for accuracy.</p> <p>* Architects & Engineers will earn 7 PDH's by attending.</p>		
Presentation Schedule:	<u>8:30 am to 8:45 am</u> • Registration, Breakfast <u>8:45 am to 12:30 pm</u> • Segment #1	<u>12:30 pm to 1:30 pm</u> • Lunch @ Slates Restaurant <u>1:30 pm to 4:30 pm</u> • Segment #2	
PRE-REGISTRATION REQUIRED:	<p>Seating is limited to first 20 Registrants. Send a \$100 deposit to secure your registration (address below). Register by May 1, 2005.</p> <p>Please RSVP via email to reg@leapc.com.</p>		
Contact Info.:	<p>Richard Gerbe c/o Lizardos Engineering: 200 Old Country Road, Mineola, NY 11501</p> <p>Email: reg@leapc.com / Phone: 516.484.1020</p>		

Directions: Lizardos Engineering is located at the NE corner of Mineola Blvd. & Old Country Road (200 Old Country Rd).

Take the LIE to exit 37 to Northern Parkway to Exit 28 (Willis Avenue). Follow Willis Ave South to the end. Turn right on Old Country Rd. Make 1st right on Main Street. Make 1st left onto Third Street. Parking garage entrance on right. Visitor's parking is on Level 2 of the parking garage. There is a pedestrian crossover bridge from the parking garage to the building at Level 4 of the parking garage. After you enter the building, take the elevators to the lower level. **If you are traveling by LIRR the Mineola Train Station is within walking distance.**

SEATING IS LIMITED. Reserve Your Seat Today!

CLASSIFIEDS

***As a Courtesy to all Long Island Chapter Members,
All Classifieds Ads Submitted to the Newsletter will be Free of Charge.***

If you would like to place an ad advertising job opportunities or if you would like to advertise that you are looking for employment please contact our chapter's Treasurer, Mr. Steve Friedman via email at sfriedman@mgjassociates.com or at 212-643-9055 for further details.

Project Managers/Senior Engineers/ Engineers/Designers/CADD Operators - Consulting Engineering Firm located in midtown (near Penn Station) seeks experienced self-starters to join its team of highly skilled and dedicated professionals! We are looking for motivated Mechanical, Electrical, Plumbing and Fire Protection Project Managers, Senior Engineers, Engineers, Designers and CADD Operators to work on commercial and institutional projects. Bachelors degree required, plus minimum 4 years experience (10+ years experience for Project Manager level). Some supervisory/project management experience preferred. Must have excellent communication and interpersonal skills, proficient in AutoCAD; P.E. registration preferred. We offer an excellent benefits package including medical/dental/401k/ transportation flex. **Qualified candidates email resume to: resume@mgjassociates.com, or fax to: 212-643-0503.**

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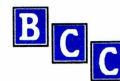


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choigerson@countyfair.com • mathan@countyfair.com

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***If you would like to place an advertisement in The Long Island Sounder
please contact our Chapter Treasurer, Mr. Steve Friedman
@ (212) 253-7303 for further details. Thank you.***