

THE LONG ISLAND SOUNDER



December 2006



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

www.ashraeli.org

SEASON'S GREETINGS

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President's Message

Greetings. As always it was a pleasure to see those folks who attended last month's dinner meeting. Mr. Joseph Rocco from LIPA delivered an interesting presentation on high performance design for energy efficient commercial buildings. We thank Mr. Rocco and his associates at LIPA for the work and effort put into the presentation. Those who attended received some valuable insight on green buildings and energy efficient design concepts.



The Director and Regional Chair for Region 1, Mr. Garry Myers stopped in and attended our board of governors meeting as well as our regular dinner meeting. One of Garry's goals is to get more young people involved in ASHRAE and he presented a music video made by ASHRAE called Licensed 2 Chill. It was interesting and humorous and we enjoyed the brief show. I believe Garry's mission to get more young people involved in ASHRAE is critical to the future of the organization and it's worthy of support from all of us. Garry was kind enough to follow up his visit with a letter thanking our chapter for the hospitality and he also made some valuable suggestions for our operation.

CHAPTER MONTHLY MEETING

DATE:	Tuesday, December 5, 2006* ASHRAE Holiday Party
TIME:	6:00 PM - 8:00 PM
LOCATION:	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
FEES: Members - Guest - Student -	No Fee

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

The e-mails from Society keep coming in and there is always some sort of technical update or news about ASHRAE and their involvement with business, government and the HVACR community. As I have said previously ASHRAE has proven to be a premiere organization and it's a privilege to be a member. We encourage you and your colleges to log onto www.ashrae.org, utilize the resources and keep up with the latest news. Inside you will find a release from Society on the planned winter meeting activities.

The members of the board of governors have been busy, as have the various committee members. These individuals spend many personal hours with ASHRAE activities and are the backbone of our chapter. Creating programs for our members, raising funds for research, membership support and interaction with our local schools are actions that make our chapter and communities strong. As much as we do, we could do more with some help. Make a difference and become a committee volunteer. A little time goes a long way.

I suppose the big news is our pending dinner meeting for January. The Presi-

Cont'd. on Page 3

Long Island Chapter Officers & Committees

ASHRAE 2006/2007 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	John Nally	631.331.0215	631.928.4625	jn@atofny.com
President-Elect	Peter Gerazounis, P.E.	212.643.9055	212.643.0503	pgerazounis@mgjassociates.com
Vice President	Steven Friedman	212.695.1000	212.695.1299	sfriedman@lilker.com
Financial Secretary	Steven Giammona, P.E.	212.643.9055	212.643.0503	sgiammona@mgjassociates.com
Treasurer	Richard E. Gerbe	718.269.3753	718.269.3598	rgerbe@trane.com
Secretary	Nancy Roman	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
Programs & Special Events	Peter Gerazounis, P.E. Richard Rosner, P.E.	212.643.9055 631.737.9170	212.643.0503 631.737.9171	pgerazounis@mgjassociates.com rrosner@csfllc.com
Membership	Carolyn Arote	516.256.4800	516.256.3299	carote@airdist.com
Chapter Technology Transfer	Steven Giammona, P.E.	212.643.9055	212.643.0503	sgiammona@mgjassociates.com
Newsletter Editor	Liset Pena	212.643.9055	212.643.0503	lpena@mgjassociates.com
Resource Promotion	Steven Friedman	212.695.1000	212.695.1299	sfriedman@lilker.com
Historian	Nancy Roman	516.256.4800	516.256.3299	nroman@airdist.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	mgerazounis@mgjassociates.com
Reception & Attendance	Robert Morgigno	631.331.0215	631.928.4625	rm@atofny.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.	212.643.9055	212.643.0503	pgerazounis@mgjassociates.com

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President Message (Cont'd. from Page 1)

dent of ASHRAE Society, Mr. Terry Townsend will be visiting and making a presentation on "The ASHRAE Promise – a Sustainable Future". All of us on the board are excited about his visit and this meeting and we encourage everyone to attend. This is a meeting you won't want to miss.

The holiday season is upon us and we invite our members and their guests to visit the ASHRAE Long Island Chapter holiday party on Tuesday December 5th at the Westbury Manor. This will be an informal event featuring some fine food and beverage and the spirited conversation of our members. We have a number of student guests from Hofstra who will be attending and we anticipate an enjoyable event. Mark your calendars.

I would like to close by wishing all a very safe and happy holiday season.

John Nally
President - Long Island Chapter

Chapter Monthly Meeting - Program for 2006/2007

September 12, 2006 * At Westbury Manor  Dinner Presentation - Characteristics of Throw, Overhead Air Distribution Fundamentals	February 2007 - TBD 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 - TBD
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 TBD MEMBER PROMOTION NIGHT
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 - TBD ASHRAE Winter Meeting	June 2007 - TBD ASHRAE Annual Meeting
August 2007 - Chapter Regional Conference Region I - TBD	

RUNNING PAOE POINTS FOR 2006/2007

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

Board of Governors Meeting Minutes

A meeting of the Board of Governors was held on 10/14/06 at the Westbury Manor. Present at the meeting were: John Nally, Peter Gerazounis P.E., Steven Friedman, Steve Giammona, Richard Gerbe, Carolyn Arote, Brian Simkins and Gary Myers. John Nally called to order at 5:05 PM and the following was discussed:

General Discussion- Terry Townsend, President elect for ASHRAE Society will be visiting the chapter in January. Gary Myers, RVC for Region One spoke to the board of governors and provided insight for possible improvements to the chapter. Gary encouraged the BOG to recruit members to lead and join committees as well as for the BOG to participate in the Full Circle program. Additionally Gary informed the BOG of the PAOE first entry deadline extension.



Treasurer Report – Rich Gerbe reported a checking account balance of 24,646.77 and a balance of 7,367.79 in the Merrill Lynch account. All past due golf outing invoices have been paid. Rich is going to investigate why mail from HSBC is still going to the old account address.

Programs – Peter Gerazounis reported that programs for February, April and May are still open. Peter will be meeting with SMACNA and ACCA to plan the joint meetings. Brian Simkins will contact SUNY Farmingdale regarding a possible field trip.

Research Promotion – Steve Friedman reported that he has begun the campaign to reach the RP goal. Steve collected donations for the Full Circle program from the BOG members. Steve will be recognizing members who donated last year to resource promotion at the November meeting.

Student Activities – Brian Simkins has visited CW Post and NYIT. He met with the dean at NYIT to discuss working together in the future. Brian attended a Ceremony at Hofstra University and was recognized for the scholarships given to their students. The November meeting is student night and 3 students will be attending.

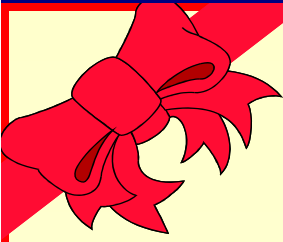
Membership – Carolyn Arote reported that she recruited 5 new members. Carolyn will be looking for members for possible membership advancement.

Chapter Technology Transfer – Steve Giammona reported that the MBO has been completed and he will work on providing technical presentation on sustainability.

Website – Rich Gerbe reported that he will be working with the hosting company to overhaul the website. The revisions are scheduled to be completed by mid January.

Meeting adjourned 5:56 PM

Rich Gerbe for Nancy Roman
Secretary

ASHRAE HOLIDAY PARTY 2006

ASHRAE Long Island Chapter's 2006 Holiday Party

“Member Appreciation Night”

**Come and join us to celebrate a successful year.
We cordially invite you to a holiday cocktail party, featuring
dinner, drinks, and holiday cheer...**

DATE: Tuesday, December 5, 2006

TIME: 6:00 to 8:00 pm

LOC.: WESTBURY MANOR, Jericho Tpke. 25, Westbury (516) 333-7117

MENU: Hot and Cold Buffet, Coffee, Dessert and “Open Bar”

FEE: **Complimentary Admission for ASHRAE Members & Guest (FREE)!**

RSVP: **By December 1, 2006**
Send your Name & Phone# to lpna@mgjassociates.com



**Hope to see you there.
RSVP today!**



**Season's Greetings and Best Wishes for the New Year from the
ASHRAE Long Island Chapter.**



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

If you know of a college student interested in joining us, please extend the invitation. Promoting student attendance is important for many reasons.

These students are the future of our chapter so please help me welcome them. Greet them during cocktails, invite them to sit at your table and share your knowledge and experience. Remember, they are also potential recruits for summer internships or full time positions when they graduate.

Brian Simkins
Student Activities Committee



Membership

Membership has been steady, but it could be higher. If you know of anyone who might be interested in joining please bring them down to a meeting. If they sign up that day, the meal is on us! If you have any other Ideas on how to get more people involved please don't hesitate to speak to me during the next meeting.

Carolyn Arote
Membership Chairman

History

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



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

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

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

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

Nancy Roman
Chapter Historian

CTTC

Green Building Design Made Easier With ASHRAE Standard 90.1-2004

Making the American Society of Heating, Refrigerating and Air-Conditioning Engineers' (ASHRAE) energy conservation standard easier to use should lead to greater energy savings and greener buildings. ANSI/ASHRAE/IESNA Standard 90.1-2004, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings. "Standard 90.1-2004 has undergone a dramatic makeover, resulting in a document with a more readable format that is easier to use for practitioners," Jerry White, chair of the standard committee, said. "New technical requirements and stringency levels are presented in a more consistent format, making them easy to find and apply to building designs." By making the standard easier to use, it will be used more, according to White. More use would result in more energy being saved.

The standard contains a new informative appendix to rate the energy efficiency of building designs that exceed its minimum requirements. The guidance provided in this appendix should be beneficial to HVAC designers who are trying to achieve the required points for either a Silver or Gold Leadership in Energy and Environment Design (LEED) certification of a facility, according to White. For designers who are participating in a LEED-certification design, the standard's energy cost budget method was produced in collaboration with representatives of the U.S. Green Building Council.

Changes to major sections of the standard include:

Lighting

- Revised interior lighting power limits are generally more restrictive than the 2001 standard values. The values are an average of 25 percent more stringent and will require more careful lighting design in some applications.
- A new exterior lighting section includes specific lighting power limits for a variety of exterior applications.

Mechanical

- The mechanical section has been reorganized to make it easier to read. New climate zone data further simplifies many of the mechanical requirements from economizer requirements to duct insulation.
- In addition, energy efficiencies were increased for fans, single package vertical units and 3-phase air-cooled air conditioners.

Climate Zones

- The number of primary climate zones for heating and cooling was reduced to eight from 26. Each county in the United States has been mapped to a particular climate zone. As a result, building envelope and mechanical criteria will apply on a countywide basis, and often to many adjacent counties.
- Reducing the number of primary climate zones resulted in a reduction of the number of tables of building envelope criteria. This reduction results in simplification while minimizing the changes in the building envelope criteria.

Energy Cost Budget (ECB) Method

- A new table reformats requirements to show the symmetry between simulations of a design building model to a budget building model in the ECB method. This makes it easier to determine the efficiency of the design.

The standard is recommended for inclusion in the 2006 International Energy Conservation Code and the National Fire Protection Association 5000 Building *Construction and Safety Code*.

The deadline is drawing near for all interested firms to submit award applications for the Ashrae awards program. Please log on to www.ashrae.org for award descriptions and for the short form applications. Don't miss out on this easy way to gain notoriety for your firm and its employees. The Ashrae Library for technology transfer is up and running. The Library is your source for borrowing Ashrae position papers, standards and handbooks, design manuals, codes, technical papers and more. This technology transfer will be available at the monthly meetings and requests for information can be made throughout the month. In order for the library to be successful, members are asked to donate any books, manuals or materials relating to Ashrae or the HVAC/R industry.

Steven Giammona, P.E.

Chapter Technology Transfer Committee Chair

Hofstra University - Rube Goldberg Club

November 17, 2006

Dear Mr. Simkins,

My name is Michael Wright and I am the President of the Rube Goldberg Club at Hofstra University. The Rube Goldberg Club is comprised of about thirty students whose ultimate goal is to compete in the national Rube Goldberg competition held at Perdue University on March 31st, 2007. The competition requires that contestants build a very complicated machine to perform a task, which is normally done in a few simple steps. It rewards ingenuity in contriving convoluted mechanisms that nevertheless synchronize perfectly to accomplish a goal. For 2007, the task is to squeeze an orange into a pitcher and pour the juice from the pitcher into a glass.

In the past, Hofstra University has been a major contender in the competition. Our team of engineering students won the national competition in 1993 and 1994, and later teams picked up several more awards in subsequent years. Our current team has a lot of potential and we have been itching to enter the competition, which in the past few years we could not because of the lack of funding. This is a great opportunity for us future engineers to showcase our skills and potential. Hofstra University and the Department of Engineering can only provide a small amount of financial assistance. With more resources we would be able to compete with the larger universities and give the engineering programs on Long Island more recognition. In the coming weeks, we will be deciding on a theme and produce possible designs that will be used for the machine.

We estimate that about five thousand dollars would need to be allocated to provide the hardware for a winning machine. Three hundred dollars are required for registration and the rest of the funds would go directly to the building of the machine. We will also use the funds to rent a trailer and take the machine to Indiana. In recent years, prices of materials have increased and the competition has grown, thus more technological innovation and raw materials must be used in order to outperform other teams.

On behalf of my colleagues and the Hofstra University Department of Engineering, I would like to thank you for your time and the consideration you give to our request for funding. If you have any questions please feel free to contact me at (516) 655-2644 or by email at mrte85@optonline.net.

Sincerely,

Michael Wright



2007 Winter Meeting - Dallas, TX

For Release:
November 1, 2006

Contact: Wendy Angel
Public Relations
678-539-1216
wangel@ashrae.org

ASHRAE '07 in Dallas **ASHRAE Winter Meeting Centers on Energy Efficiency**

ATLANTA – ASHRAE will be showing off its technical expertise at the 2007 AHR Expo in January. For the first time, 16 technical sessions will be held at the AHR Expo during the 2007 ASHRAE Winter Meeting in Dallas. Designed to share ASHRAE's technical guidance with Expo attendees, the sessions include topics such as vibration control, energy-efficient ventilation systems, using ground-source heat pumps in schools, and new BACnet capabilities.

"Offering attendees an opportunity to learn about the latest advancements in technology via the technical program complements the Expo, which features those advancements being incorporated into products and equipment," says Ginger Scoggins, chair of the program committee. "These sessions make ASHRAE's meeting and top-rate technical program more visible while at the same time drawing more meeting attendees to the expo."

In addition, ASHRAE will present a comprehensive technical program at the Adam's Mark Hotel, January 28-31. The overall six-track technical program centers around energy efficiency in buildings and includes such seminars as Achieving a 50 Percent Approach to Net Zero Energy Use in Buildings and Risk Management of Infectious Airborne Diseases. The technical program consists of 67 seminars plus the 16 seminars at the convention center, 12 open-discussion forums, one public session, one poster session with 21 papers presented, and 18 transaction sessions with a total of 48 papers presented.

Also new for this year is the technical plenary speaker, National Geographic Magazine Executive Editor Dennis Dimick. Dimick, a picture editor specializing in environmental stories for more than 15 years, will address technical program attendees between sessions on Sunday, Jan. 28 at 9:30 a.m. at the Adam's Mark hotel about a 2004 project he oversaw on global climate change. Meeting registration is required to attend.

Registration for the 2007 ASHRAE Winter Meeting is \$630 (\$360, ASHRAE member) prior to Nov. 17. After Nov. 17, the registration fee will be \$655 (\$385, ASHRAE member). The deadline for advance registration is December 15. For more information or to register, visit www.ashrae.org/dallas.

Held with the ASHRAE Winter Meeting is the ASHRAE co-sponsored International Air-Conditioning, Heating, Refrigerating Exposition, Jan. 29-31, at the Dallas Convention Center. For more information, contact International Exposition Company at 203-221-9232, info@ahrexpo.com, or visit www.ahrexpo.com.

ASHRAE, founded in 1894, is an international organization of 55,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

CLASSIFIEDS

Sales Engineer: To assist consulting engineers and design professionals with the application and selection of energy efficient equipment and systems. Position requires local travel to client offices and/or job sites, professional appearance, strong communication skills, dedicated work ethic, computer software knowledge and willingness to work as a team member.

Please email your resume to infony@walesdarby.com

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