

THE LONG ISLAND SOUNDER

October 2005



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

We had a great start to the ASHRAE year with a strong show in member attendance and an excellent technical topic presented by Evans Lizardos.

We implemented many positive changes in our meeting last month. We are now providing name tags to all of the attendees at the monthly meetings and I want to thank Brian Simkins and Carolyn Arote for staffing the reception table and automating the sign in process. In addition to helping everyone get to know each other, the name tags and sign in will allow us to track monthly attendance and insure proper billing from the restaurant for the event.

I also want to thank Richard Rosner for doing an excellent job with processing the CE credits for the meeting. Richard was able to provide CE certificates to all attending members by the end of the evening which makes the process much simpler for members. In addition, Richard has been responsible for filing with the State to get each presentation CE approved. This is not an easy task, so please go out of your way to thank Richard for his hard work the next time you see him.

Steve Friedman, the student activities chair, has gotten off to a strong start. He started the process of forming a new student chapter at SUNY Stony Brook. Steven and I are meeting with a professor in the Mechanical Engineering Department at the University along with his class of senior engineering students. I look forward to this

meeting and hope we can bring some bright young engineers into our industry- thank you Steven for taking this initiative.

October's meeting is also our Membership and Student Promotion night so I urge you to please bring a co-worker or an engineering student to our meeting. It is a great way to meet new people, see some old friends, find out what is going on in our industry and have a pleasant evening.

John Nally has scheduled a very timely topic for this month's meeting in light of the rising energy costs. The topic outlines Bio-fuel technologies and a review of the new developing ASHRAE standard 155 for energy savings in commercial buildings.

I look forward to seeing everyone at the October meeting.



Craig Marshall, P.E.
President - Long Island Chapter

CHAPTER MONTHLY MEETING

DATE:	Tuesday, October 11, 2005
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*

Long Island Chapter Officers & Committees

ASHRAE 2005/2006 OFFICERS

POSITION	NAME	PHONE	FAX	E-MAIL
President	Craig D. Marshall P.E.	(203) 261-8100	(203) 261-1981	cmarshall@accuspecinc.com
President-Elect	John Nally	(631) 331-0215	(631) 928-4625	jn@atiofny.com
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Board of Governors	Nancy Roman	(516) 256-4800	(516) 256-3299	nroman@airdist.com
Board of Governors	Claudio Darras, P.E.	(212) 354-5656	(212) 354-5668	cdarras@akf-eng.com

ASHRAE 2005/2006 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	E-MAIL
Programs and Special Events	John Nally	(631) 331-0215	(631) 928-4625	jn@atiofny.com
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Webmaster	Carolyn Arote	(516) 256-4800	(516) 256-3299	carote@airdist.com
Honors, Awards & Publicity	Ray Schmitt	(631) 585-6800	(631) 471-4950	therevrgs@aol.com
Nominating	Michael Gerazounis, P.E.	(212) 643-9055	(212) 643-0503	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	Carolyn Arote Brian Simkins	(516) 256-4800	(516) 256-3299	carote@airdist.com
Public Relations & Engineering Joint Council of LI	Richard E. Gerbe	(516) 484-1020	(516) 484-0926	reg@leapc.com
Continuing Education	Richard Posner, P.E.			
Golf Outing Committee	Steven Friedman John Nally Alan Goerke, P.E. Craig D. Marshall, P.E.	(212) 695-1000 (631) 331-0215 (631) 331-0215 (203) 261-8100	(212) 695-1299 (631) 928-4625 (631) 928-4625 (203) 261-1981	sfriedman@lilker.com jn@atiofny.com ag@atiofny.com cmarshall@accuspecinc.com

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September Meeting Recap


September's meeting was well attended with over 45 members. Evans Lizardos, P.E. presented an excellent topic on: Innovative water system design to conform to ASHRAE 90.1 and improve IAQ

This presentation outlined a very interest approach on the benefits of lowering chilled water temperatures in a central plant to provide the benefit of overall lower operating cost while providing additional cooling with the existing piping infrastructure and improving general IAQ in the facility. If you are interested in learning more about this topic I would encourage you to contact Evans directly at Lizardos Engineering (phone # 516-484-1020).

In addition the presentation qualified for 1.5 PDH credits and certificates were provided at the end of the evening to all interested members.

Craig Marshall, P.E.
President - Long Island Chapter

Chapter Monthly Meeting - Program for 2005/2006

September 13, 2005 * At Westbury Manor  ASHRAE DISTINGUISHED LECTURER Dinner Presentation - Innovative Water System Design	March 14, 2006 * At Westbury Manor MEMBERSHIP PROMOTION NIGHT Dinner Presentation -
October 11, 2005 * At Westbury Manor MEMBERSHIP PROMOTION / STUDENT PROMOTION NIGHT Dinner Presentation - Bio-Fuel Technologies and the New ASHRAE Standard 155	April 11, 2006 FIELD TRIP Brookhaven National Labs (Tour)
November 15, 2005 * At Westbury Manor JOINT MEETING WITH SMACNA-LI RESOURCE PROMOTION NIGHT Dinner Presentation - Project Design Drawings vs. Construction Drawings for Ducts	May 9, 2006 * At Westbury Manor TBD
December 13, 2005 Holiday Field Trip - NY Islander Game	May 2006 * Cherry Valley Club, Garden City, NY ANNUAL GOLF OUTING - TBD
January 10, 2006 TBD	June 13, 2006 * At Westbury Manor PAST PRESIDENTS & OFFICER INSTALLATION TBD
February 21, 2006 * At Westbury Manor ASHRAE DISTINGUISHED LECTURER STUDENT PROMOTION NIGHT Dinner Presentation - Air Conditioning: A look into the past and a guess into the future.	
August 2006 - Chapter Regional Conference Region I - Maine	

RUNNING PAOE POINTS FOR 2005/2006

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	Chapter PAOE Totals
334		100		25	975		1,150

October Chapter Meeting - Program

You are cordially invited to our October 2005 Meeting



Dinner Presentation

***“New Bio-fuel Technology
New ASHRAE Special Committee Standard 155 –
Application of Season Efficiency of Commercial Boilers. ”***

*Presented by
Dr. Thomas Butcher
Brookhaven National Laboratory*

DATE:	TUESDAY, OCTOBER 11, 2005		
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 found @ www.ashraeli.org <i>Pre-registration not required. Business attire suggested.</i>		
Presentation:	<p>Part 1 – Biofuels – Biodiesel technology. A discussion of renewable liquid fuels derived from agricultural, and waste sources. This will include the technical aspects of blending with petroleum fuels, storage and handling of the product, and application as it applies to combustion and use in heating equipment devices.</p> <p>Part 2 – ASHRAE Special Products Committee 155 (SPC 155). Dr. Butcher is active on this committee and will discuss the new soon to be released standard on Application of Seasonal Efficiency of Commercial Boilers. The discussion will include SPC's innovative approach for testing and how this will provide flexibility to apply the results to a wide range of commercial buildings. Dr. Butcher will discuss equipment application and in particular high efficiency condensing boilers. Fuel cost vs. boiler efficiency and details on the impact that fuel type, excess air, humidity and feed water temperature has on the ability to achieve condensing. The discussion will include recent research developments and issues relating to materials, corrosion and application.</p>		
About our Speaker:	<p>Dr. Thomas Butcher, is a Principal Investigator for Brookhaven National Labs, Energy Resource Division and his expertise is in the fields of efficiency and air pollutant emissions with oil-fired equipment for heating, combustion technology for commercial and industrial scale boilers and alternative energy concepts. He has been involved with a wide range of research projects and has numerous publications related to energy and fuels. This has included coal slurry fuel development and combustion, conversion of tar waste into fuel, diesel engine emission studies, fouling in oil-fired boilers, condensing economizer design for thermal performance and particulate capture, advanced HVAC equipment concepts; low emission burner design, TPV power generation and CFD applications. Dr. Butcher received his PhD in mechanical engineering from the State University of New York at Stony Brook, his M.S. in mechanical engineering from Stevens Institute of Technology and his B.S. in marine engineering from the United States Merchant Marine Academy.</p>		

Board of Governors - Meeting Minutes

Meeting of the Board of Governors was held on 9/13/05 at the Westbury Manor. Present at the meeting were: Claudio Darras, Richard Gerbe, Peter Gerazounis, Steve Friedman, Craig Marshall, Steve Giammona, John Nally, Nancy Roman, and Andrew Braum.



The meeting was called by Craig Marshall at 5:05 pm.

General – Richard Gerbe will follow-up on the outstanding Continuing Education credits due to those who haven't yet received them from the May and June 2005 meetings. Richard Rosner filed for the approval of the September meeting. This meeting has been approved for 1.5 PDHs and he has brought his laptop and printer in order to print the credit certificates immediately after the meeting.

Treasury – Steve Giammona reviewed funds. CRC reimbursement checks will be distributed to all attendees upon receipt of hotel receipts.

Programs – John Nally is aggressively pursuing scheduling the remaining monthly meetings and should be complete before the October meeting.

Reception – Carolyn and Brian have brought the name-badge printer and will begin creating the list of members and printing badges at each monthly meeting.

Membership – Nothing to report.

Newsletter – Nothing to report.

Resource Promotion – Steve Giammona shall order the coins and plaque and schedule the Resource Promotion Donor Recognition night.

Student Activities – Steve Friedman will be visiting the SUNY Stonybrook campus to recruit student members.

CTTC – Richard Gerbe has begun planning the satellite broadcast in April. Additionally, Rich will be organizing the holiday event and hockey game at the Nassau Coliseum.

Website – Nothing to report.

Historian – Nothing to report.

Old Business – Steve Giammona shall send the IRS filing papers to Steve Friedman.

Meeting adjourned at 5:45 pm.

Richard E. Gerbe
Chapter Secretary



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		



ASHRAE Technology Transfer Library

The ASHRAE Technology Library is available to all ASHRAE Long Island Members.

Now all members have local access to ASHRAE publications:

Handbooks
Standards
Technical Papers
Software
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Bookstore Order Forms

To borrow see our monthly display or contact:

Rich Gerbe @ Edwards & Zuck
Tel: 212.330.6283
Email: rgerbe@edzuck.com

CTTC

ASHRAE Approved Climate Change Position Documents

(The follow text is an excerpt from the complete ASHRAE Climate Change Position document, which can be found on the official website www.ashrae.org.)

CURRENT UNDERSTANDING OF CLIMATE CHANGE SCIENCE

Global climate is controlled by the energy equilibrium between incoming and outgoing energy of the earth, which is largely regulated by the interaction of the composition of terrestrial sinks and the atmosphere. Approximately one-third of the solar radiation (sunlight) reaching the earth is reflected back into space by clouds, small particles in the atmosphere, and the earth's surface. The remaining energy is absorbed by the surface and by gases in the atmosphere. Greenhouse gases, such as carbon dioxide (CO₂) and water vapor, as well as small particles trap heat at, and near, the surface – maintaining the average temperature of the earth's surface about 33 °C (60 °F) warmer than would be the case if these gases and particles were not present.

When GHG releases to the atmosphere increase, the environment may be altered. Carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulfur hexafluoride (SF₆) are contributing GHGs. Chlorofluorocarbons, HCFCs, and HFCs have important applications as refrigerants, heat transfer fluids, and blowing agents for insulating foams. They also are used for many other applications, such as solvents, propellants, and fire suppressants.

These gases absorb and re-emit infrared radiation emitted by the earth's surface. Greater concentration levels in the atmosphere increase the "energy-trapping" capabilities of the lower tropospheric region of the atmosphere.

Climate change and variability occur naturally. Over thousands of years, periodic changes in the Earth's orbit, and variations in the concentrations of GHGs have caused climate to change between ice ages and interglacial periods such as the current warm period. Over shorter periods, climate variability may be driven by factors such as volcanic eruptions and variability in solar output as well as such oscillations as El Niño.

The current concern stems from the potential for human activities (referred to as anthropogenic) to enhance the greenhouse effect. This effect could result in a climate shift beyond any experienced in recorded human history. Continuation of the current trends in the use of fossil fuels and other human activities will lead to increased concentrations of GHGs equivalent to a doubling — or more — of CO₂ levels from pre-industrial values during the twenty-first century. While some uncertainty remains as to the influence of human activities on climate, significant scientific opinion supports the view that some effect already is discernible.

Summary of IPCC (Climate Change) Findings

The Intergovernmental Panel on Climate Change (IPCC) was established to assess information on climate change, to provide reliable, relevant (and unbiased) information on all aspects of the climate change issue. The IPCC is an independent international body, cosponsored by the United Nations Environment Programme, the World Meteorological Organization and the United Nations Framework Convention on Climate Change. The most recent full assessment report issued by the IPCC in 1996 was prepared and reviewed by more than 2000 experts

According to the IPCC, the atmospheric concentration of carbon dioxide has increased by about 30% over the past 200 years, primarily from burning fossil fuels and deforestation; the atmospheric concentration of CO₂ is increasing at about 0.4% per year. The concentration of CH₄ has increased by about 145% and the current rate of increase is about 0.6% per year. The concentration of N₂O has increased by about 15% and the current rate of increase is about 0.25% per year. The atmospheric concentration of CO₂ would be more than double from the level of 200 years ago by the end of the next century if current trends in the use of fossil fuel continue. Increases in fuel use in developed countries and rapidly growing usage rates in developing countries are both concerns. The concentrations of fluorochemicals, including fluorocarbon gases and sulfur hexafluoride, also are contributing to the enhanced greenhouse effect.

CTTC (Cont'd. from page 7)

Carbon dioxide and some of the other GHGs will remain in the atmosphere for many decades or even centuries. Therefore, if actions are taken at some future time in response to observations of a human-caused global climate change, the warming effects would continue to become more severe for decades and could persist for more than a century. The magnitude, timing and regional characteristics of climate change are very uncertain. Considering the possible range of future GHG emissions and the uncertainty in the climate response to these emissions, global average surface temperature could increase by the year 2100 by 1-3.5 °C (1.8-6.3 °F). Correspondingly, sea levels could rise by 15-95 cm (6-37") by the end of the next century. Impact estimates range from minor to very significant and even catastrophic.

Although many uncertainties limit the ability to determine the extent to which climate changes have been influenced by humans, a signal of a human-induced change is emerging from the noise of climate variability. Detection of a human influence involves a comparison of patterns of observed changes in climate with what is expected, based on the current understanding of the climate system. The uncertainties result from a limited understanding of natural variability, the influence of human activity on the increasing concentrations of GHGs and small particles in the atmosphere, and the climate response to these increases. Although progress is expected in understanding the climate system, resolution of the major policy-relevant issues is likely to take well over a decade. The buildup of GHGs in that period could have severe consequences.

Richard E. Gerbe
Chapter Technology Transfer Committee Chair

Membership

We will be having a Membership Promotion Night at this month's meeting. I would like to ask everyone to encourage membership of new individuals who would take an active part in our activities. I will have applications on hand or you can contact me and I will send one out in the mail.

Society has implemented a new incentive program: "Member-Get-A-Member". Society awards a \$10 coupon for each new member recruited by a present member. The coupon can be used for annual dues payment, publications purchases or logo merchandise purchases.

Peter Gerazounis, P.E.
Membership Chairman

Research Promotion

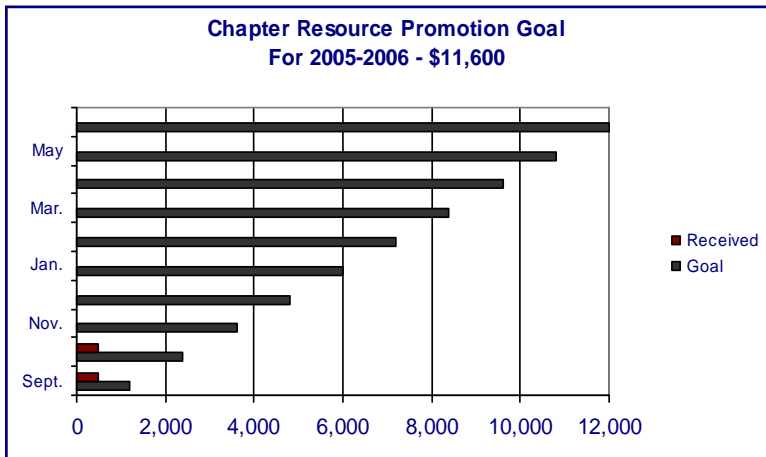
This year at our November dinner meeting, we will be honoring those who contributed to last year's Research fund. There will be a number of donor recognition awards presented and I will be contacting the recipients shortly. Mark your calendar for November 15th, for this important meeting and show your support for the industry that supports you.

Again, none of this research is possible without your generous tax deductible donations, so please contribute to an industry that supports your profession.

Steven Giammona, P.E.
Research Promotion Chairman

Contributions can be mailed to:

Mr. Steven Giammona
 ASHRAE Research Promotion Chairman
 c/o MGJ Associates
 116 West 32nd Street, 12th Floor
 New York, NY 10001



History

A few days ago my cell phone rang. I was in the middle of Brazil and yet I was able to stay in touch with my clients in New York City. Amazed at the technology I turned to my colleague and said: "Do you remember what life was like before the cell phone?" This thought led me to think of what life was like before air conditioning and serves as the basis for this month's History article. Here goes:

A little bit more than 100 years ago one Mr. Willis Carrier of Buffalo thought of what life might be like if it were possible to mechanically control the climate and shortly after this he began to develop what has been hailed as the world's first air-conditioning system. On July 17, 1902, the young engineer found a way to control the climate in a Brooklyn, N.Y., printing plant, reducing the waste created when humidity changed the size of paper rolls and made colors inconsistent.

Before air conditioning, cotton threads snapped, cigarette machines jammed, film attracted dust and perishable goods would spoil quickly when exposed to fluctuating heat and humidity conditions. Early on, air conditioning was a financial blessing for industrial plants that depended upon stable climate conditions. The lithographers at the Sackett-Wilhelm plant in Brooklyn soon had company that was capable of consistently producing high quality printed goods. In addition, the captains of industry soon learned, cool and dry air, could also make factory workers more comfortable, more productive and less prone to call in sick.

While some dispute Carrier's claim of "invention" -- and laud earlier pioneering like Dr. John Gorrie's 19th century attempts to fight malaria in Florida with ice-cooled air -- the man behind today's Carrier Corp. kick-started the scientific thinking and marketing of a product that has significantly changed our lives..

After Carrier, life got cooler and quieter. We often take for granted the people and the technologies that have shaped our lives and we are prone to soon forget what life was like before these "modern" inventions impacted our daily lives. In fact, most of us owe our careers to bold thinkers like Mr. Carrier.

Air Conditioning? Radios? Televisions? Color televisions? Cellular phones? When I think of all of the modern conveniences that we surround ourselves with and the time, energy, and bold thinking that was required to turn these dreams into reality it is then that I am even more grateful for Mr. Carrier and his cool idea.

James Hayes
Chapter Historian

Student Activities

This month's meeting is one of two Student Activities night and I invite all of the college students and facilities personnel and professors to join us for a fun and informative meeting. Here, the students can meet with future employers and employment internships during semester breaks. I have set goals this year to promote student branches of Ashrae at most of the engineering colleges on Long Island and to encourage student membership at our local chapter. Our chapter has elected once again, to grant two-student scholarship awards in the amount of \$1000.00 each to those students who apply and are selected by our Board of Governors for the scholarship. I will have further details at a later date.

I, as well as the Board of Governors would like to thank Carolyn Cammalleri, who has elected to get involved on the student activities committee for our local chapter. Carolyn is a recent Hofstra college graduate currently working at Lizardos Engineering Associates and we welcome her to our Long Island Chapter of Ashrae.

Look forward to seeing our everyone at this month's meeting.

Steven Friedman
Student Activities Chairman

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 Giammona via email at sgiammona@mgjassociates.com or at 212-643-9055 for further details.

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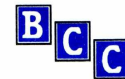
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