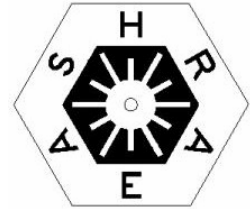


ASHRAE NEWSLETTER

Long Island Chapter



April 2003



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

Inside this issue:

President's Message	1
LI Chapter Officers & Committees	2
Apr. Chapter Field Trip Meeting Schedule	3
Board of Governors Special Events	4
TEGA	5
Research Promotion	5
General Meeting Min.	5
LI Chapter Past Pres. Field Trip Description	6
NY Chapter Seminar	6
Refrigeration	7
Student Activities	7
Golf Outing	8
Advertisements	9

President's Message

Next month is our exciting field trip to the New York Jets inflated practice field at Hofstra University. Please call early to guarantee your attendance and to ensure you won't have any security problems getting in.

May 5 is our golf outing, which is traditionally sold out. The course is beautiful and dinner is first rate. We also have spots available for sponsorships and hope you will continue to show your support by sponsoring a hole. Alan and Frank, Co-Chairmen, have added a few new events to the agenda to make the day all that much better.

We are also nearing the end of the 02-03 year and it is time for new committee members to be elected. Please contact me so I can let you know where we need assistance and people to head committees. Space is limited and slots are filling fast so don't delay.

One sad piece of news to inform you of is that Mr. John Haarhaus, Long Island Chapter past president in 1975, past away at the end of February.

Our thoughts and prayers go out to his family.

On a positive note, we have now updated and improved our website. Please visit it and let us know what you think.

I look forward to seeing you all at the training facility.

Steven M. Stein, P.E.
President
Long Island Chapter

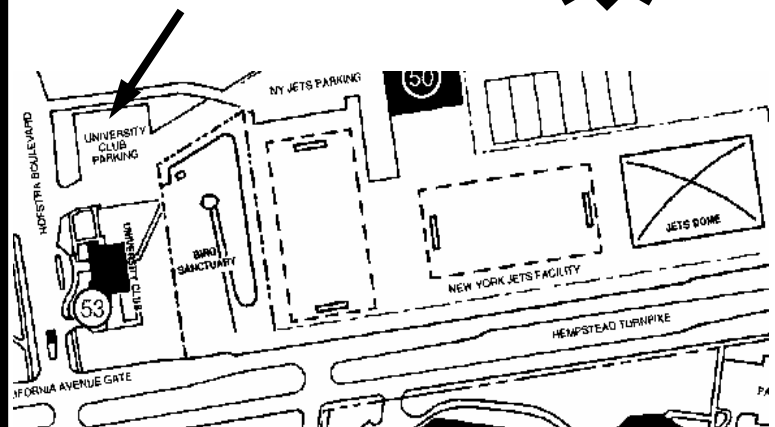
LI Chapter
Field Trip
April 8th!

LI CHAPTER FIELD TRIP

DATE: Tuesday, April 8, 2003
TIME: 5:00 PM - Tour
Dinner to follow*
LOCATION: Hofstra University Club Parking Lot - Hempstead, LI (Mack Hall #53)
FEES:
 Members - \$30.00
 Guests - \$35.00
 Student Members - \$15.00

TOUR DESCRIPTION: See Pages 3 & 6

Reservations are mandatory. Space is Limited!
Call (516) 785-9000



Members please meet @ 5 pm in The Hofstra University Club Parking Lot. (See Map Above)

L.I. Chapter Officers & Committees

ASHRAE 2002/2003 OFFICERS

POSITION	NAME	PHONE	FAX	E-MAIL
President	Steven Stein, P.E.	(212) 536-3850	(212) 764-7827	stein@derector.com
President-Elect	Andrew Braum P.E.	(516) 785-9000	(516) 785-9148	asb@frigidyne.com
Vice President	Claudio Darras, P.E.	(212) 354-5656	(212) 354-5668	cdarras@akf-eng.com
Financial Secretary	Jeff Donahue, P.E.	(631) 563-4800	(631) 563-4807	jdcepc@aol.com
Treasurer	Craig D. Marshall P.E.	(203) 261-8100	(203) 261-1981	cmarshall@accuspecinc.com
Secretary	John Nally	(631) 331-0215	(631) 928-4625	jn@atofny.com
Board of Governors	Peter Gerazounis P.E.	(212) 643-9055	(212) 643-0503	pgerazounis@mgjassociates.com
Board of Governors	Steven Friedman	(212) 643-9055	(212) 643-0503	sfriedman@mgjassociates.com
Board of Governors	Ray Schmitt	(631) 585-6800	(631) 471-4950	therevrgs@aol.com

ASHRAE 2002/2003 COMMITTEES

Programs and Special Events	Andrew Braum P.E.	(516) 785-9000	(516) 785-9148	asb@frigidyne.com
Membership	Jeff Donahue, P.E.	(631) 563-4800	(631) 563-4807	jdcepc@aol.com
TEGA/Refrigeration	Claudio Darras, P.E.	(212) 354-5656	(212) 354-5668	cdarras@akf-eng.com
Newsletter Editor	Liset Pena	(212) 643-9055	(212) 643-0503	lpena@mgjassociates.com
Research Promotion	John Nally	(631) 331-0215	(631) 928-4625	jnally@atofny.com
Historian	Steven Friedman	(212) 643-9055	(212) 643-0503	sfriedman@mgjassociates.com
Student Activities	Peter Gerazounis, P.E. Steve Friedman Ray Schmitt	(212) 643-9055 (212) 643-9055 (631) 585-6800	(212) 643-0503 (212) 643-0503 (631) 471-4950	pgerazounis@mgjassociates.com sfriedman@mgjassociates.com therevrgs@aol.com
Webmaster	Greg Chambers	(631) 331-0215	(631) 928-4625	gc@atofny.com
Honors, Awards & Publicity	Mike Gerazounis, P.E. Alan Goerke P.E. Henry Schulman	(212) 643-9055 (631) 331-0215	(212) 643-0503 (631) 928-4625	mgerazounis@mgjassociates.com ag@atofny.com
Nominating	Mike Gerazounis P.E.	(516) 482-3207	(516) 482-3790	mgerazounis@mgjassociates.com
2004 CRC General Chair	Alan Goerke Frank Morgigno	(631) 331-0215 (631) 331-0215	(631) 928-4625 (631) 928-4625	ag@atofny.com fm@atofny.com
Reception and Attendance	Ray Schmitt Steve Friedman Mike Mordetsky Greg Chambers	(631) 585-6800 (212) 643-9055 (631) 661-3136 (631) 331-0215	(631) 471-4950 (212) 643-0503 (631) 661-3137 (631) 928-4625	therevrgs@aol.com sfriedman@mgjassociates.com michael.mordetsky@us.belimo.com gc@atofny.com
Golf Outing	Alan Goerke Frank Morgigno	(631) 331-0215 (631) 331-0215	(631) 928-4625 (631) 928-4625	ag@atofny.com fm@atofny.com

Editor's Note: The appearance of any technical data, editorial material, or advertisement in this set of publications does not constitute endorsement, warranty or guaranty by ASHRAE of any product, service, procedure, design, or the like. ASHRAE does not warrant that information is free from errors, and ASHRAE does not necessarily agree with any statement or opinion in this set of publications. The entire risk of the use of any information in this set of publications is assumed by the user. Statements made in this publication are not expressions of the Society or of the Chapter and may not be reproduced without special permission.

April Chapter Field Trip

Andrew S. Braum, P.E. of Frigidyne, in conjunction with The New York Jets, will provide a tour of the New York Jets Indoor (Inflated) Practice Facility. Bob Levanthal from B & B Leventhal will provide an overview of the Governair equipment and the special application for an air inflated building.

After the tour, dinner will be held at The Hofstra University Club. **The tour will begin at 5 pm.** We will meet in the parking lot of The Hofstra University Club. Immediately after the tour, dinner will follow at The Hofstra University Club.

Reservations are mandatory. Space is limited. Please call Frigidyne at (516) 785-9000 or email asb@frigidyne.com.

Chapter Monthly Meeting Program for 2002/2003

September 10, 2002

Technical Session - Chiller Advances
Dinner Lecture - VAV Systems

October 8, 2002

MEMBERSHIP/STUDENT ACTIVITIES NIGHT

Technical Session - AutoCad Updates
Dinner Lecture - Wireless Monitoring

November 12, 2002

RESEARCH PROMOTION NIGHT

Joint Meeting with SMACNA
Dinner Forum - Construction Productivity

December 11, 2002 (Tuesday)

Holiday Party

January 14, 2003

Technical Session - Radiant Technology
Dinner Lecture - ROI Return

January 25-29, 2003

ASHRAE Winter Meeting and Show
Chicago, Illinois

February 11, 2003

Dinner Lecture - Distinguished Lecturer
Members Survival Guide

March 11, 2003

STUDENT ACTIVITIES NIGHT

Technical Session - Laboratory Exhaust/VAV Design
Dinner Lecture - Propane-Air Fuel Systems

April 8, 2003

Field Trip - Jets Inflated Practice Field

May 5, 2003

GOLF OUTING

May 13, 2003

REFRIGERANT NIGHT

Technical Session - Geo Thermal
Dinner Lecture - Refrigerant Piping

June 11, 2003

PAST PRESIDENTS & OFFICER INSTALLATION

Technical Session - Legal Collections
Dinner Lecture - Energy Code Update

June 26-30, 2003

ASHRAE Annual Meeting
Kansas City, Missouri

Board of Governors - Meeting Minutes

A meeting of the Board of Governors was held on 3/11/03 at the Milleridge Inn. Present at the meeting were: Steven Stein P.E., Andrew Braum P.E., Craig Marshall P.E., Claudio Darras P.E., Steven Friedman, Peter Gerazounis P.E., Alan Goerke P.E., Frank Morgigno, Ray Schmitt, and John Nally.

The meeting was called to order at 5:10 PM and the following was discussed:

Steve Stein opened the meeting and called for committee reports:

Newsletter - Steve Friedman asked if the new format was acceptable. Everyone was pleased with the appearance. Articles for next month will be due by 3/19.

History – Steve Friedman reported that we have made par plus we have bonus PAOE points. Steve is searching for past president data for future articles.

Programs - Andrew Braum reported that he has confirmed our field trip to the Jets training facility and that all other programs for the upcoming months were set. Andrew indicated that prior reservations for the field trip would be required for security reasons. Andrew also noted that Roger Dieffenbach will be attending our June meeting and will swear in the new officers. Steve Stein mentioned that Mike Gerazounis will head the nominating committee and asked the board to report to Mike with possible new candidates.

Treasury Report – Craig Marshall provided checking account transaction information. Craig will be preparing a spread sheet for last years transactions that he will make available at the next board meeting. The spread sheet will be the basis for the IRS filing.

Student Activities – Peter Gerazounis reported that we have 13 new student members. To date we have only received one scholarship application. The scholarship will be awarded at the May meeting. Tonight's dinner meeting is student membership night, perspective new members were invited to attend. Peter also indicated that the PAOE points were at 300+.

Website – Claudio Darras had a meeting Gregg Chambers and Eric Pulido. They distributed work items and set a completion timetable. Gregg will be working on site uploads and updating the site.

Research Promotion – John Nally reported that donations have been down. He requested the committee's assistance in soliciting more funds. Current collected total is approximately \$ 4,800.00, which represents half of the target goal.

TEGA – Claudio Darras reported that we have approximately 900 PAOE points. He indicated that we did not qualify in several point options. Frank Morgigno explained that there were some changes made in the point structure at the society level and that the 900 point mark was excellent.

Golf – Alan Goerke reported that reservations and checks are coming in. We need sponsors for the dinner, cocktail hour, holes, etc. Alan is working on the give away and raffle items. Everything is proceeding on schedule.

CRC – Frank Morgigno reported that Don Stahl has submitted a preliminary budget. Frank will be reviewing the budget with past CRC host chapters. Frank asked if Norm Maxwell had returned the seed CRC money to the chapter. Craig Marshall to follow up with Norm. Frank suggested separate funds for the trade

show and general CRC. Frank and Alan have reviewed the hotel contract and they indicated that we need to renegotiate the contract based upon a lesser room quantity guarantee. Frank requested that individual committees have budgets submitted by 4/15. Ray Schmitt suggested a possible booth at the Rochester CRC. This will be discussed at the next board meeting.

Meeting adjourned 6:20 PM

John D. Nally
Secretary

Special Events - Annual Golf Outing

The long cold winter will soon be over. The sun and warmth will get the grass growing and the flowers blooming. It's time for the 4th annual ASHRAE golf outing. Monday, May 5th we will have our very successful and popular golf outing at the Cherry Valley Golf Club. We are limiting the outing to 128 golfers in order to keep the proper pace of play. Each golfer will play their own ball and caddies are included to help find the ball in the thick rough of Cherry Valley. Once again, we will have prizes for the low scores, long drives and closest to the pins. But you still have a chance to win a door prize raffle at the dinner. We are also having a \$10,000 hole-in-one par three. Anyone who has attended in the past knows that the outing is a great day with fellow members of ASHRAE and the HVAC industry. Call or fax me with your reservations.

All checks are due by April 23rd.

See you in May!

Alan Goerke, PE
Golf Outing Co-Chairman

TEGA

ASHRAE Funds Research to Determine Cooling, Heating Energy Use

The use of simplified system models to reduce energy use in buildings has become common. But no general procedure exists that can be easily implemented by energy professionals.

ASHRAE will develop a step-by-step procedure to determine the annual cooling and heating energy use of buildings with multiple HVAC systems. At the past 2003 Winter Meeting, ASHRAE approved funding for seven research projects in the areas of design tool, operation and maintenance tools, indoor air quality, comfort

and health, refrigeration, environmentally safe materials and energy conservation totaling \$575,383.

Standards Available for Public Review

The public review period for several ASHRAE standards has begun. A complete list of review dates and applicable standards and addenda can be found online at:

<http://xp20.ashrae.org/STANDARDS/availdft.htm>

Claudio Darras, P.E.
TEGA Chair

Research Promotion

As I write this article, I find my mind drifting to thoughts of the current crisis with the United States, the United Nations and Iraq. Although most of us carry on with our business and private lives as usual, you can't help but think about current events.

This publication is not a forum for a discussion of these events, however our knowledge in matters of survival is important to us all. The media has us running to the store for duct tape, plastic sheeting, bottled water and a host of other items we may need if an attack is carried out domestically. Before buying anything, it would be a good idea to read up on the various types of biological, chemical and radiological attacks that could occur and how you can defend against them.

What's this have to do with ASHRAE research you ask? Well, when it comes to air infiltration, filtration and circulation, ASHRAE literally has "wrote the book". And it would it surprise you to learn that ASHRAE research sponsored a project study for the "habitability of survival shelters". Most of us don't think of ASHRAE in defense matters, but the same studies conducted for improving the quality of life, may also be one's that save lives.

HELP! We are seriously behind in our goal for this year. Please consider a small donation to ASHRAE Research.

Help support the industry that helps support you.

John Nally
Research Promotion Chair

General Meeting Minutes

The regular monthly meeting was called to order by Steve Stein at 7:00 PM. Introductions were made and Andrew Braum spoke briefly on next months field trip. Steven then introduced Mr. Craig Marshall P.E. from Accuspec, who lectured on laboratory airflow systems. The dinner speaker was Mr. Kal Feinberg P.E. from G.A. Fleet who discussed propane/air standby fuel systems.

Those in attendance were:
(see listing below)

Meeting adjourned 9:00 PM

John D. Nally - Secretary

Craig Marshall	Accuspec
Claudio Darras	AKF Engineering
John Rice	AFK Engineering
Len Van Sicklin	Anron Service Corp.
John Nally	ATI
Ray Combs	ATI
Alan Goerke	ATI
Frank Morgigno	ATI
Migel LaBelle	ATI
Marion Deaton	ATI
Rich Schneider	BBS
Michael Mordetsky	Belimo Controls
Dunstan McGuire	Bladykas Engineering
John Becker	Busch Associates
Al Swahn	Bush Sales
Stephen Feyrer	Bush Sales
Jeff Daniels	Cameron Engineering
Doug Constantine	Cameron Engineering
Jerry Brannigan	Capso Controls
David Shepard	GA Fleet
Joseph Santangeli	Hofstra
Joseph Leno	J&L
Brian Bateman	J&L
Richard Gerbe	Lizardos Engineering
John Lizardos	Lizardos Engineering
Evans J. Lizardos	Lizardos Engineering
Clif Perkins	Mason East
Peter Gerazounis	MGJ Associates
Steven Friedman	MGJ Associates
Steven Stein	Robert Derector Assoc
Steve Carrol	STR
Ron Milano	Ultimate Power
Ron Giglio	Xtraire Inc
Jason Giglio	Xtraire Inc
Ray Schmitt	Wales Darby
Joe Thuman	Wallace Eannan

Long Island Chapter - Past Presidents

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

ASHRAE Field Trip - Hofstra Univ.

The NY Jets indoor practice facility is an air inflated building located at Hofstra University. The building is inflated, heated, and cooled by two (2) 100 ton Governair package units. These units are specially designed for an air inflated building, under a constant positive pressure. Backup inflation is provided by electric blowers. In the event of electric failure, Kohler natural gas engines engage a clutch and maintain building pressure.

The temperature and pressure are controlled by a Johnson Controls DDC system. This system is used to simulate practice conditions. The pressure and temperature is also adjusted based on weather conditions and occupancy. The concrete underground ductwork, which was built on-site, allows for full perimeter snow removal from the facility.

Frigidyne designed and installed this system in July of 1997. Andrew S. Braum, P.E. of Frigidyne, in conjunction with The New York Jets, will provide a tour of the facility. Bob Levanthal from B & B Leventhal will provide an overview of the Governair equipment and the special application for an air inflated building.

Andrew Braum, P.E. - Programs & Special Events

SPRING 2003 ALL DAY SEMINAR - NY CHAPTER ASHRAE

The NY Chapter cordially invites LI Chapter's members to attend this highly awaited training Seminar in NYS:

Topic: ASHRAE 90.1: Energy Code for Buildings
Date/Time: Saturday, May 3, 2003 - 8:30 am to 4:00 pm
Location: LaGuardia Marriott Hotel

Presenters:

Evans Lizardos, P.E.; Principal, Lizardos Engineering Assoc.
John b. Rice, P .E.; Partner AKF Engineers

Agenda:

8:30 am to 9:00 am: Registration/Continental Breakfast
 9:00 am to Noon: Morning Session: Introduction
 Noon to 1:00 pm: Lunch
 1:00 pm to 4:00 pm: Afternoon Session

Registration Fee:

\$125 Seminar Only (Meals Included)
\$213 Seminar & Materials (Includes copy of ASHRAE 90.1 Std., Manual and software)

(ASHRAE Std. 90.1-2001 and User's Manual with the EnvStd 4.0 Software Program has a regular Member's Price of \$147.00)

Please return the Registration Form below no later than April 18, 2003.

NY CHAPTER ASHRAE ALL DAY SEMINAR - SATURDAY, MAY 3, 2003 - 8:30 AM TO 4:00 PM

We wish to reserve: _____ seats @ \$125.00 per person _____ seats @ \$213.00 per person

Mail Form and Check to:

NY Chapter ASHRAE
 Atkinson Koven Feinberg, LLP
 1501 Broadway, Suite 700
 New York, NY 10036

Attention: John Rice, P.E.
 (212) 626-0145

Name _____

Company _____

Address _____

Telephone _____

Deadline for reservations is APRIL 18, 2003!

All reservations will be filled on a first-come, first-serve basis.

Refrigeration

How do you prevent mold in small commercial and residential buildings?

Simple steps to remove mold in small commercial and residential buildings by decreasing humidity were presented at the public session held here during ASHRAE's 2003 Winter Meeting, Jan. 25-29.

According to Joe Lstiburek, Ph.D., P.E., Building Science Corp., Westford, Mass. there needs to be a shift in designing buildings in different climates as well as greater attention paid to the rule that water moves from warm temperatures to cold. "We are designing buildings the same way regardless if the building is in Las Vegas or Miami," Lstiburek said. "In addition, buildings and HVAC systems are being designed for cold months but not for summer months." He attributes standardization of build-

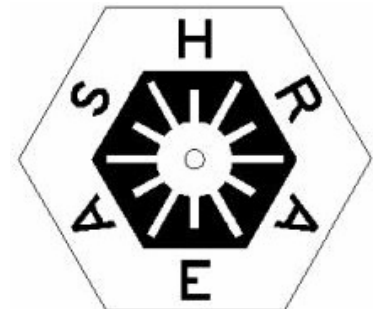
ing codes to uniform construction practices. These practices allow moisture to stay in the buildings longer and to attack construction materials, such as particleboard, fiberboard and paper, which provide food for the growth of mold. "We need to design for drying buildings for wetness," he said. He also stressed that those in the HVAC industry need to design for local conditions.

One major hindrance to removing moisture from buildings is oversized systems. "Rules of thumb" applied to determining the heating and cooling loads in buildings have led to a dramatic oversizing of installed equipment, according to Glenn Hourahan, P.E., Air Conditioning Contractors of America, Arlington, Va. "Oversizing equipment degrades systems' ability to control moisture load," he said. Hourahan

recommended that accepted load calculation references and programs be used and that special conditions related to geographic locations and part load operation be considered. If engineers have to make a choice on the size of the system based on load calculations, it is better to go with slightly undersizing the system, he said.

The mold issue has moved beyond homeowners, engineers and building maintenance personnel. Litigation involving mold has increased by 300 percent since 1999, according to Maralynne Flehner, Esq., J.D., King of Prussia, Pa. "Everyone involved with buildings is being sued," she said. "The most important line of defense against risk of being sued is a written contract. The contract should contain a provision disclaiming all express warranties that the HVAC system or design is safe and/or effective in preventing mold, and, if possible, disclaiming liability for mold-related losses if the client or customer fails to properly operate and/or maintain his equipment. Other important provisions include a clause requiring prompt notification in the event mold-related problems develop, a limitation of liability clause and a provision prohibiting or waiving recovery of consequential damages."

Claudio Darras, P.E.
Refrigeration Chair



ASHRAE
Long Island Chapter

Student Activities

March's dinner meeting was our second of two (2) Student Nights this year. We were pleased to have one of our better turnouts in recent years.

Students are always welcome to attend our meetings. If you know of a college student interested in joining us, please extend the invitation. 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. I've already received interest from local firms seeking interns for this summer.

March 11, 2003 was also the deadline for submitting applications for the ASHRAE Long Island Chapter Bud Maxwell & Frank Pyne Scholarship. Good luck to the students who applied. The lucky winner(s) will be selected in the next month and the award will be presented at our May meeting.

Congratulations to Dr. Charles Forsberg, P.E., professor at Hofstra University. His submission to ASHRAE's Undergraduate Senior Project Grant Program titled "Design & Build a Heat Pump Demonstration Unit for the Mechanical Engineering Labs" was approved for funding in the amount of \$5,000.00.

Peter Gerazounis, P.E.
Student Activities Chair

4th Annual LI/NYC ASHRAE GOLF OUTING

Monday – May 5th, 2003

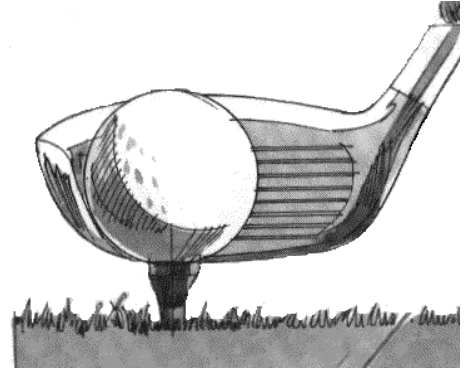
Place: Cherry Valley Club
Garden City, NY

Brunch: 11:00 am

Shotgun Start: 12:30 pm

Reception: 5:30 pm

Dinner: 6:30 pm



*Proper golf attire and shoes are required.
Locker room and shower privileges are included.*

CHECKS MUST BE IN BY APRIL 23, 2003

Name: _____	Company: _____
Address: _____	Phone: _____
City, State, Zip _____	Fax _____
Guest 1: _____	Company: _____
Guest 2: _____	Company: _____
Guest 3: _____	Company: _____



Please make check payable to:
ASHRAE – Long Island Chapter

Mail checks to:

Applied Technologies Inc.
Attn: Alan Goerke
415 Oser Avenue
Hauppauge, NY 11788
Fax: (631) 968 -4625

Golf & Meals:	\$250pp x _____	= \$ _____
Reception and Dinner:	\$120pp x _____	= \$ _____
Sponsor Dinner:	\$1,000 <input type="checkbox"/> YES	= \$ _____
Sponsor Lunch:	\$ 500 <input type="checkbox"/> YES	= \$ _____
Sponsor Reception:	\$ 500 <input type="checkbox"/> YES	= \$ _____
Sponsor Prizes:	\$ 500 <input type="checkbox"/> YES	= \$ _____
Sponsor Beverage Cart:	\$ 500 <input type="checkbox"/> YES	= \$ _____
Sponsor Hole:	\$ 200 <input type="checkbox"/> YES	= \$ _____



ASHRAE
Long Island Chapter

Marino Gerazounis & Jaffe Associates, Inc.
100 West 32nd Street, 4th Floor
New York, NY 10001