

# ASHRAE NEWSLETTER

## Long Island Chapter



June 2003



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

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### President's Message

Since this is my last official writing as Long Island Chapter President, I would like to take this opportunity to express many thanks to the Board of Governors and committee members who have contributed so much of their time and effort to make this year run smoothly and successfully. In addition, I would like to thank the membership, foremost for electing me to president and secondly, for your continued support to our local chapter and the society as a whole. Special thanks also go out to Alan Goerke and Frank Morgigno for again preparing

and executing such a good golf outing last month. Many challenges and experiences lie ahead for the incoming president, Andrew Braum. I trust that you will all give him the same level of commitment and support you have afforded me.

Although last month's meeting had a slightly lower attendance, hopefully due to the timing of the golf outing, we were honored to host two regional officers. Mr. Roger Dieffenbach, Director and Regional Chairperson, and Mr. Bob Daly, Regional Student Activities Vice chairperson, were both in attendance. Bob, along with Peter Gerazounis, student activities chairperson, awarded the scholarship of \$1,000 to the well deserving student, Mr. Joseph Santangeli. Joseph is attending Hofstra University and has a 4.0 GPA.

This month is our last official meeting for the year. I hope that you will find the time to join us along with our past presidents, since it's Past President's night. The lectures for this month will focus on legal issues and the latest updates to the Energy Code.

Our turnover meeting to incoming committee members is scheduled for July 8 at Andrew Braum's residence. All those interested in participating more actively in our chapter next year are strongly urged to attend the meeting.

The CRC meeting for this year is set for August 7-9 in Rochester. All members are invited and encouraged to attend.

Once again, thank you for your support to me and to the committee members throughout the year. It was a pleasure and rewarding to serve you this year and for the past 7 years in various roles.

Look forward to seeing you in June.

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



### CHAPTER MONTHLY MEETING

**DATE:** Tuesday, June 10, 2003

**TIME:** 6:00 PM - Cocktails  
7:00 PM - Dinner  
8:00 PM - ASHRAE Lecturer  
9:00 PM - Conclusion

**LOCATION:** The Milleridge Inn  
Route 107, Jericho, NY

**FEES:**

Members -	\$30.00
Guests -	\$35.00
Student Members -	\$15.00

*Reservations requested, but not required.*  
*Call (516) 785-9000*

## 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	<b>Andrew Braum P.E.</b>	(516) 785-9000	(516) 785-9148	asb@frigidyne.com
Membership	<b>Jeff Donahue, P.E.</b>	(631) 563-4800	(631) 563-4807	jdcepc@aol.com
TEGA/Refrigeration	<b>Claudio Darras, P.E.</b>	(212) 354-5656	(212) 354-5668	cdarras@akf-eng.com
Newsletter Editor	<b>Liset Pena</b>	(212) 643-9055	(212) 643-0503	lpena@mgjassociates.com
Research Promotion	<b>John Nally</b>	(631) 331-0215	(631) 928-4625	jnally@atofny.com
Historian	<b>Steven Friedman</b>	(212) 643-9055	(212) 643-0503	sfriedman@mgjassociates.com
Student Activities	<b>Peter Gerazounis, P.E.</b> 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	<b>Greg Chambers</b>	(631) 331-0215	(631) 928-4625	gc@atofny.com
Honors, Awards & Publicity	<b>Mike Gerazounis, P.E.</b> 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	<b>Mike Gerazounis P.E.</b>	(212) 643-9055	(212) 643-0503	mgerazounis@mgjassociates.com
2004 CRC General Chair	<b>Alan Goerke</b> <b>Frank Morgigno</b>	(631) 331-0215 (631) 331-0215	(631) 928-4625 (631) 928-4625	ag@atofny.com fm@atofny.com
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Golf Outing	<b>Alan Goerke</b> <b>Frank Morgigno</b>	(631) 331-0215 (631) 331-0215	(631) 928-4625 (631) 928-4625	ag@atofny.com fm@atofny.com

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## June Chapter Meeting

Alan Goerke, P.E. from Applied Technologies, Inc. of New York will discuss Proper Computer Room Design, Applications and Load Estimation - Important criteria that a mechanical engineer should follow for critical space design.

In addition, Mr. Goerke will be discussing computer room equipment and system types, selection of equipment for various applications, controls and alarms for data centers and LAN rooms.

## 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 10, 2003

#### PAST PRESIDENTS & OFFICER INSTALLATION

Technical Session/Dinner Lecture -  
Computer Room Applications & Selections

### June 26-30, 2003

ASHRAE Annual Meeting  
Kansas City, Missouri

## Board of Governors - Meeting Minutes

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A meeting of the Board of Governors was held on 5/13/03 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., Ray Schmitt, John Nally, Roger Dieffenbach DRC, and Bob Daly RVC Student Activities. The meeting was called to order at 5:15 PM and the following was discussed:

Steve Stein opened the meeting and called for committee reports:

**History** – Steve Friedman reported that we are doing well with PAOE points. Steve is still searching for past president data and possible autobiography information. Anyone who can assist please contact him.

**Membership** – Steve Stein announced that due to personal and professional commitments, Jeff Donahue will be stepping down from the board. Jeff will continue to serve as membership chair until the June 30<sup>th</sup> term ends.

**Programs** - Andrew Braum reported no new information. All programs to include next months June meeting are set.

**Research Promotion** – John Nally reported that Society had made some computer errors with the contribution report that resulted in a lower donation amount. The cur-

rent corrected collection total was approximately \$ 5,400.00, and he just collected an additional \$1,000.00. John stated that we need to reach the 80% of goal mark to get the minimum PAOE points and asked the board to consider a chapter donation. John will have a final review at the next meeting.

**Treasury Report** – Craig Marshall provided checking account transaction information. A number of transactions are being made due to the golf outing. Based upon a preliminary report from the golf committee, the chapter should net between \$ 3,500.00 to \$ 5,000.00 after expenses. Craig has itemized the account data for IRS filing purposes. Roger suggested contacting other chapters for information on filing and procedures. Craig will obtain the necessary information / paperwork and will present at next board meeting.

**Student Activities** – Peter Gerazounis reported that the student scholarship recipient would be present for tonight's dinner meeting to receive the scholarship. This meeting is also student activities promotion night. Bob Daly, the RVC from society will be participating.

**Newsletter** – Mike Gerazounis stated that the newsletter publication was going smoothly. There was a general discussion concerning the paper copy and mailing of the publi-

cation for the future. Should we look to convert to an electronic e-mail format. Roger suggested a postcard mailing to the chapter to ask who would still like a paper copy mailed. Roger also suggested contacting several other chapter to see if and how they made the transition.

**TEGA** – Claudio Darras reported that we are limited in total PAOE points due to some of the requirements. He indicated that we did not qualify in several point options. Overall we are at 825 points.

**Website** – Claudio Darras expressed concern and disappointment with the current website status. Claudio requested that each board member provide information and assistance with web site material. Claudio also suggested that we consider a new webmaster that will be able devote more effort to the site.

**General** – Andrew set a tentative date for the board turnover meeting to be held on July 8<sup>th</sup>. Andrew will confirm with board members via e-mail. Mike Gerazounis submitted the ballots for the board nominations. We received a total of 94 ballots. The ballots were opened and counted. All nominees carried.

Meeting adjourned 6:10 PM

**John Nally**  
**Secretary**

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**Region 1, Long Island Board of Governors 2003-2004 is sworn in by Regional Vice-Chair, Roger Dieffenbach.**

*(From Left to Right)*

*(Andrew Braum, P.E., Steven Friedman, Claudio Darras, P.E., Craig Marshall, P.E., Michael Mordetsky, Peter Gerazounis, P.E., John Nally, Steven Stein, P.E., Steven Giammona, P.E., Roger Dieffenbach, DRC)*

## TEGA/Refrigeration

### ASHRAE PROVIDES GUIDANCE ON DAMPER SELECTION

Control damper selection and sizing are a critical first step in the design of control systems. But many designers select economizer outdoor air, return air, and relief/exhaust air damper sizes and damper action based on rules of thumb that are not valid or valid only for certain applications, according to Steven Taylor, P.E. "This improper selection and sizing may cause improper temperature, flow, and pressure control and other operational difficulties," Taylor, chair of a committee that developed a new ASHRAE guideline on damper selection, said.

ASHRAE Guideline 16-2003 "Selecting Outdoor, Return, and Relief Dampers for Air-Side Economizer Systems" provides techniques for properly selecting dampers for the most common economizer relief system applications (return fans, relief fans and non-powered relief) and minimum outdoor air control strategies. The guide addresses the application and sizing of outdoor, return and relief dampers used to control outdoor air intake for economizer cooling, minimum ventilation outdoor airflow for indoor air quality and building pressure. The cost of ASHRAE Guideline 16-2003, Selecting Outdoor, Return, and Relief Dampers for Air-Side Economizer Systems, is \$19 for ASHRAE members plus S&H.

### IMPROVING CLASSROOM COMFORT WITH STANDARD 62

The "formula" for controlling humidity and indoor air quality in school facilities is simple: Combining the proper ratio of outdoor air ventilation + the correct levels of space humidity = a comfortable classroom environment that can contribute to learning.

With a U.S. government study showing 20% of schools suffer from poor indoor air quality (IAQ) and 36% considered to have "less than adequate" HVAC systems, adherence to such a formula is needed, according to John Fischer. "School facilities, managers and their staff need to understand the importance of IAQ, humidity control, and the operation and the energy savings potential of their HVAC systems so that routine maintenance and proper system design and operation are given the appropriate priority," he said. Fischer, a technology consultant with SEMCO Inc. of Columbia, Mo., and co-author Charlene Bayer Ph.D., a researcher with Georgia Tech Research Institute in Atlanta, examine the need for humidity control in schools in the May issue of ASHRAE Journal. The issue contains articles featuring technologies and practices to improve the learning environment.

While all of the participating schools were designed in accordance with ASHRAE Std. 62, none of them designed with conventional systems were operated to provide the outdoor air quantities required by the standard. The report concluded that "most IAQ problems in school facilities can be avoided by providing adequate outdoor air ventilation on a continuous basis (15 cfm/student), controlling the indoor relative humidity between 30 and 60 percent and providing effective particulate filtration of the outdoor air."

*(Cont'd. on pg. 6)*

## General Meeting Minutes

The regular monthly meeting was called to order by Steve Stein at 7:00 PM. General introductions were made and Steve then called up Roger Dieffenbach, DRC Region 1, to perform the board swearing in ceremony. After the board members were sworn in, Steve then introduced Peter Gerazounis and Bob Daly, RVC region 1, who awarded the scholarship check to the student, Mr. Joseph Santangeli. After the award Andrew Braum introduced the dinner speaker, Mr. Ken Carerra, who spoke on geothermal applications.

Those in attendance were:  
(see listing below)

Meeting adjourned 8:45 PM

### **John D. Nally - Secretary**

Craig Marshall	Accuspec
Claudio Darras	AKF Engineering
John Nally	ATI
Bob Daly	ATIG
Michael Mordetsky	Belimo Controls
Mike Bladykas	Bladykas Engineering
Doug Constantine	Cameron Eng
Jeff Daniels	Cameron Eng
Dick Pearson	Edwards & Zuck
Ken Sullivan	ELI
Andrew S. Braum	Frigidyne
Ken Carrara	GeoTech
Joseph Santangeli	Hofstra
Steve Giammona	JLA
Richard Gerbe	Lizardos Engineering
Michael Gerazounis	MGJ Associates
Peter Gerazounis	MGJ Associates
Steven Friedman	MGJ Associates
Walter Stark	Nautica Dehumidifiers
Henry Schulman	Retired
Steven Stein	Robert Derector Assoc
Steve Bergman	Twinc Supply
Ray Schmitt	Wales Darby

## TEGA/Refrigeration

(Cont'd. from pg. 5)

The hypothesis echoes recommendations in ANSI/ASHRAE Standard 62-2001 "Ventilation for Acceptable Indoor Air Quality". The standard recommends 15 cfm/person of outdoor air for school classrooms and that indoor "spaces preferably should be maintained between 30 and 60% RH" according to Fischer.

He also notes that most IAQ problems could be avoided with use of desiccant-based dedicated outdoor air systems (DOAS), which proved an effective way to operate facilities in accordance with Standard 62. Schools using DOAS could be ventilated at the 15 cfm/student rate while maintaining the space humidity as desired, he said. "The schools provided with increased ventilation and humidity control had improved comfort and perceived indoor air quality," he said. "Average absenteeism was determined to be 9% lower for these schools."

**Claudio Darras, P.E.**  
**TEGA-Refrigeration Chair**



**ASHRAE**  
**LONG ISLAND CHAPTER**

## Special Events - Golf Outing Summary

### 2003 LI/ NY Golf Outing Summary:

We had our 4<sup>th</sup> annual golf outing at the Cherry Valley Club in Garden City, NY on May 5<sup>th</sup>. The outing was attended by 140 golfers and others for the reception and dinner.

### The following prizes were awarded:

**Low Gross-** Nick Horvath 83. In a tie with Matt Romanelli, Nick wins on matching cards.

**Low Net-** 74

### Closest to Pins-

#5- Steve Bergman  
#9- Ron Giglio  
#13- Jason Giglio  
#17- Nick Terran

### Longest Drive

#7- Bill Berroyer  
#14- John Restaino

We raffled off many door prizes to at the dinner following an elaborate cocktail reception. We had two 50/50 winners this year because the total pool was so high. We awarded two \$500 prizes, one to Bob Gebhard and one to Kevin Beirne. Kevin promptly donated half of his winnings to ASHRAE. Thanks Kevin for your thoughtfulness and generosity.

We are thankful to all our sponsors who helped make the event a success:

### Sign In Table

Applied Technologies Inc.

### Hole Sponsors

Marino Gerazounis Jaffe Associates  
Twinco Supply  
Applied Technologies Inc.  
Williams Specialized Services/  
Rigging  
Ultimate Power  
Slant Fin Corp by Rathe Associates  
Mason East

Accuspec  
Sav Mor Mechanical  
Wales Darby  
AO Smith by Wales Darby  
Taco by Wales Darby  
Nelson Air Device  
Perfectaire  
Vibration Products

### Brunch Sponsor

Smacna- Long Island

### Drink Cart Sponsor

Sound Air Conditioning  
Gil Bar Industries

### Raffle Prize Sponsors

Applied Technologies Inc  
SMPS donated a Ping putter  
Williams Rigging donated a \$150 gift certificate  
Victaulic donated 2 dozen golf balls

### Dinner Sponsor

Powerflame, Inc.

### Dinner Brochure

SMPS

### Special Thanks To:

Golf Event Planning Professionals for the Hole-In-One Challenge, Cherry Valley Club for hosting the event and Bob Hutter for sponsoring our outing.

Thanks to the committee members and others who helped make our 4<sup>th</sup> outing a success.

### Golf Outing Committee:

Alan Goerke, PE- Liebert Corp.  
Frank Morgigno- Applied Tech.  
Andrew Braum, PE- Frigidyne  
Mike Gerazounis, PE- MGJ Assoc.

### Golf Sign In and Reception

Ray Schmitt

### Alan Goerke, PE

**Golf Outing Co-Chairman**

## Research Promotion

This will be my last article as Research Promotion Chair. I must say that prying the nickels out of people's pockets for donations has proved to be quite challenging. In speaking to many individuals and companies, the terms "slow", "downsized", "on hold" and "tight" were in almost every conversation. I know things are a little tough right now folks but you need to consider the worthiness of the cause. ASHRAE Research truly is worthy of our support. The committee has currently collected \$ 6,400.00, which represents about 67% of our goal of \$ 9,600.00. We thank those who have contributed, and ask those who have not, to step up to the plate. Ultimately research results in the betterment of mankind and your donation is tax deductible. That's a win, win situation. ASHRAE and our chapter thank the following contributors:

Mr. Raymond Schmitt	Mr. Howard Weitzman
Mr. Fred Weber	Mr. Arthur Huebner
Mr. Michael Gerazounis	Mr. Peter Gerazounis
Mr. Frank Morgigno	Mr. Joseph Marino
Mr. Jeffrey Donahue	Mr. Michael O'Rourke
Mr. John Nally	Mr. John Cronin, Jr.
Mr. Marcel Bally	Mr. Robert Kane
Mr. John Fanneron	Mr. Richard Arote
Mr. Ronald Kilcarr	Mr. Jose Betancourt
Mr. Claudio Darras	Mr. William Mahon
Mr. Craig Marshall	Mr. Rick Gaska
Mr. John Mazza, Jr.	Mr. Steven Friedman
Mr. Douglas Constantine	Mr. Donald Romano

ADE Systems, Inc.  
Lizardos Engineering Associates, Inc.  
Control Solutions Group Inc.  
EMTEC Consultants Inc.  
Robert Derector Associates Inc.  
James Lasala & Associates Inc.  
BJLJ Engineers & Architects PC  
Anron Heating & Air Conditioning Inc.  
Applied Technologies Inc.  
Almore Corp. Inc.

It's not too late to make a contribution. Please consider a small donation to ASHRAE Research. Please help seed our future.

**John Nally**  
**Research Promotion Chair**

## History

I recently had the pleasure of interviewing Mr. Henry Shulman, who was the Long Island Chapter ASHRAE President in 1973 and a long standing 58-year member of ASHRAE (currently a lifetime member). At the time of his presidency, Henry worked and owned an HVAC equipment sales engineering company. Henry holds both Mechanical and Marine Engineering degrees from Pratt Institute and Kings Point. He went into the engineering business in 1947 after serving the Naval Service in World War II.

Referring back to 1973, The Long Island ASHRAE monthly meetings were held at the "Dugout Restaurant" on Route 110 in Amityville (which no longer exists). The restaurant was owned by Baseball's ex New York Met – Ron Swaboda.

Membership at that time was approximately 20-25 members attending each monthly meeting. The topics of discussion at the meetings were HVAC applications relevant to industrial and processing plants. Engineering type designs which were in demand at that time included school work, Stonybrook Univ. College & Hospital, North Shore Hospital and various industrial parks. Coincidentally, an average engineers' salary at that time was about \$12,000.00 per year.

Currently, Henry is still active within the engineering community as he continues to attend and support the Long Island ASHRAE Chapter. He also is involved in the Long Island Chapters' 2004 hosting of the CRC in which he is participating in various committees.

Say hello to Henry when you see him at our current ASHRAE events and ask him to share his stories and experiences with you. They are most interesting.

**Steven Friedman**  
**Chapter Historian**



## Student Activities

We were happy to award our annual ASHRAE Long Island Chapter Bud Maxwell & Frank Pyne Scholarship to Joseph Santangeli of Hofstra University. Congratulations Joseph!

Every year, our chapter awards up to two \$1,000 scholarships. Any students who are interested for our 2003-2004 scholarship should look for it next fall and get their applications in on time.

We were also happy to be visited by Robert Daly, our Regional Vice Chair for Student Activities. Robert has done a great job at promoting student activities and educating us in how best to get students involved in ASHRAE. It's not always an easy task so we need your help.

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.

**Peter Gerazounis, P.E.**  
**Student Activities Chair**

**Peter Gerazounis (left), Joseph Santangeli (center) and Robert Daly (right).**



## 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'Rouke
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**  
**Long Island Chapter**

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