

THE LONG ISLAND SOUNDER

April 2007



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

www.ashraeli.org

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

Inside this issue:

President's Message	1,3
Meeting Information	1
LI Chapter Officers	2
Meeting Schedule	3
PAOE	3
BOG Minutes	4
April Field Trip	5,6
LI Past Presidents	7
Student Activities	7
History	8
Membership	9
Research Promotion	9
Ashrae Resource	9
CTTC	10
Ashrae Releases 1-3	11-13
Satellite Broadcast	14
Ashrae Golf Outing	15-17
Classifieds	18
Advertisements	18,19

President's Message

Greetings. I am fortunate once again to have daffodils blooming in my yard, signaling the end of winter and the beginning of spring. I'm one of those folks who enjoys the changing of the seasons and relishes in nature's splendor. Looking back at winter I think most will agree it was unusual in terms of weather and certainly temperature. I can't remember when we had a January as warm as this past one. Not that I'm complaining but it does make you wonder what's happening with global climate. Perhaps the views expressed by our Society President, Mr. Terry Townsend at our past January meeting are on the mark. It does appear that the climate is changing and I believe as Mr. Townsend does, that we must all work towards finding solutions that will make a difference for our future. Take a moment and log onto www.ashrae.org and find out how ASHRAE is making a difference.



Thank you to all who attended our March meeting. As always it's nice to see our chapter members. We had an excellent presentation given by Mr. Brian Ryglewicz from Chimney Design Solutions Inc. on combustion / ventilation air requirements for gas utilization equipment. Brian provided some valuable information and those in attendance earned PDH credits. We thank Brian and his organization for all the work and effort to make the presentation possible. With spring also comes our chapter's annual golf outing. This will be our 8th year running and the past success of this outing has played a major role in our chapter's finances. The sponsorships received at

the outing are used to help augment the cost of the monthly meetings, provide scholarships for our local schools and help with the chapter's general operating costs. We appreciate the generosity of the donors and the students and schools especially are thankful for the gifts. It's good to give back to the community. Once again we ask your support for this year's outing. The date is Monday May 7th and the slots are filling up fast so act now.

This year is special for our chapter as it marks our 50th anniversary as an official ASHRAE chapter. Over the years our members have had many remarkable achievements in their professional lives and our chapter has been there in support. It's important to acknowledge occasions such as this and our board has been busy planning a special event to highlight this achievement. We have booked a dinner cruise that will take place in September. The cruise, which sails out of Port Washington is open to all our members and guests and will feature a tour out to the Statue of Liberty, cocktails, dinner and music. This will be an enjoyable evening you won't want to miss. More information will be in the upcoming newsletters.

CHAPTER MONTHLY MEETING

DATE:	Tuesday, April 10, 2007 FIELD TRIP - NO DINNER MEETING
TIME:	See Page 5 & 6 for details...
LOCATION:	Blue Diamond Sheetmetal 1165 Station Road Medford, New York
FEES:	
Members -	NO FEE FOR TRIP
Guest -	RUBY TUESDAYS
Student -	AFTERWARDS

Reservations requested, but not required.

Call (516) 333-7117

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@atiofny.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.	516.224.5214		sgiammona@cameronengineering.com
Treasurer	Richard E. Gerbe	718.269.3753	718.269.3598	rgerbe@trane.com
Secretary	Nancy Román	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@csflc.com
Membership	Carolyn Arote	516.256.4800	516.256.3299	carote@airdist.com
Chapter Technology Transfer	Steven Giammona, P.E. Richard Rosner, P.E.	516.224.5214 631.737.9170	 631.737.9171	sgiammona@cameronengineering.com rrosner@csflc.com
Newsletter Editor	Liset Peña	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@atiofny.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. Steven Friedman	212.643.9055 212.695.1000	212.643.0503 212.695.1299	pgerazounis@mgjassociates.com sfriedman@lilker.com

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President Message (Cont'd. from Page 1)

This year's region 1 CRC will be held at Niagara Falls New York. From the information I have seen so far, it looks like this is going to be an excellent meeting at an outstanding location. The accommodations are beautiful and the surrounding area is an excellent tourist stop. I would highly recommend to any of our chapter members to consider attending. You are welcome to sit in on the meetings and participate in the tour activities. I will be attending a planning meeting this month in Albany and I will have more details to pass along in next month's newsletter.









This month we will have our annual field trip and will be checking out the fabrication of sheet metal ducting. For those who attended our February joint meeting with SMACNA, this will build on some of the ideas discussed and give the "pictures worth a thousand words" view. See the programs page for more information.

In closing I would once again like to thank everyone who has contributed to ASHRAE research. As most of you know the money is used to support research and development in many different areas. We have a long way to go achieve our chapter goal for this year so if you haven't already done so, please consider a donation. There shouldn't be any doubt that in order to develop a sustainable future, we need to invest today.

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  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 - BLUE DIAMOND SHEET METAL Medford, NY (See Program Section for Details)
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 ASHRAE DISTINGUISHED LECTURER Dinner Presentation - Thermal Energy Storage & Leed
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  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	350	110	480	300	900	120	2,260

Board of Governors Meeting Minutes

A meeting of the Board of Governors was held on Tuesday, March 13, 2007 at the Westbury Manor. Present at the meeting were: John Nally, Peter Gerazounis P.E., Steven Friedman, Richard Gerbe, Nancy Román, Carolyn Arote, Brian Simkins, Steve Giammona and Alan Goerke. John Nally called the meeting to order at 5:10 PM and the following was discussed:

General Discussion- Getting a new recruit for the Board Of Governors with a consulting engineering background to add a diversified perspective. The golf outing details were finalized. The year end reports are to be finalized and sent to the RVC.

Treasurer Report- Rich Gerbe reported a checking account balance of \$11,385.80 and a Merrill Lynch account balance of \$ 7,491.50. A \$2,000 deposit will be sent out for the anniversary dinner cruise. There are no outstanding invoices nor bills.

Programs- Peter Gerazounis reported making arrangements with ACCA for the May meeting. The field trip details have been finalized.

Research Promotion- Steve Friedman reported working on meeting the goal for this year and is actively seeking donations.

Chapter Technology Transfer- Trane NY will host a NYC/LI satellite broadcast called Indoor Environmental Design: Practical Solution to Everyday Problems.

Student Activities- Brian Simkins reported he will contact SUNY Stony Brook to set up a visit.

Membership- Carolyn Arote reported two new members this month.

Website- Rich Gerbe reported that the website will be updated by mid April.

History- Nancy Román reported storing of electronic records from recent years. History displays and archives will be brought in on history night in June.

Meeting Adjourned 5:55 PM

Nancy Román
Secretary



ASHRAE ANNUAL FIELD TRIP

ASHRAE LI CHAPTER'S ANNUAL FIELD TRIP TUESDAY, APRIL 10, 2007

Blue Diamond Sheet Metal, Inc.

1165 Station Road
Medford, New York 11763

DATE:	TUESDAY, APRIL 10, 2007		
TIME:	4:00 PM – 5:30 PM (No Dinner) Please Meet at Lobby @ 4:00pm Sharp! After Tour Members will be going to Ruby Tuesday's - All are welcome!	Fee:	No Fee for Tour <i>Optional "Pay Your Own Way" Dinner/Drinks @ Ruby Tuesdays after.</i>
LOCATION:	Blue Diamond Sheet Metal, Medford, NY – See Page 6 for Directions.		
ABOUT THE TOUR/ PRESENTATION	<p><u>Tour Guides:</u> Bob Lawless, CEO Bill Reichling Paul Parker, SMACNA LI Chapter Exec Rob Belz Jim Dvorak Steve Dimeglio</p> <p>The tour will be presented with a brief overview of Blue Diamond's mission and then we will be off to the tour as follows:</p> <p>The group will walk through the process a Sheet metal Contractor undertakes from the initial bid stage, through the drafting and coordination process and finally the production phase. This will be done in Blue Diamond's shop showing the various production steps and equipment required in the manufacturing process of building a duct distribution system.</p>		

Pre-registration Required! See next page for RSVP form & directions.

**ASHRAE LI CHAPTER'S
ANNUAL FIELD TRIP
TUESDAY, APRIL 10, 2007**

Blue Diamond Sheet Metal, Inc.

***RSVP Form - Reservations are Required!
Fax to Liset Pena @ 212-643-0503 By April 6th, 2007***

I would Like to Attend (NAME):	
Phone #:	
I will joining members At Ruby Tuesdays (Yes or No)	

Directions:

BLUE DIAMOND SHEET METAL, INC.

1165 Station Road Medford, New York 11763 Ph (631) 286-5131 Fax (631) 289-3463

Directions From NYC

1. Long Island Expressway (I-495) east to exit 65, Horse Block Road.
2. Right on Horse Block Road, 4 traffic lights to Station Road. (approximately 1.1 miles).
3. Right on Station Road approximately .7 miles to 1165 Station Road.

The building is blue and will be on your left hand side.

Directions From LI

1. Veteran's Highway (Route 454) east approximately 2.3 miles to Sunrise Highway (Route 27).
2. Sunrise Highway east approximately 5.5 miles to exit 56, Station Road.
3. Left on Station Road approximately 1.1 miles to 1165 Station Road.

The building is blue and will be on your right hand side.



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

Field Trip - There is no better way to learn than by seeing. Please invite your engineering students to join us on our field trip to Blue Diamond Sheet Metal Inc. This is a great way for students to see duct manufacturing at work and get exposed to some impressive machinery.

Rube Goldberg - One of our Student Members, Mike Wright and several other Hofstra students have completed the Rube Goldberg machine and are off to Purdue (Indiana) for the competition. The machine is highlighted on Hofstra's home page which includes a video and photos please visit www.hofstra.edu and check it out. Everything was done by the students and it looks awesome.



Undergraduate Grants - The ASHRAE Senior Undergraduate Project Grant Program provides grants to engineering, technical and architectural schools worldwide with the goal of increasing student knowledge, learning and awareness of the HVAC&R industry through the design and construction of senior projects.

Scholarship Recipients - [Apply Now](#) for 2007-08 Scholarships, ASHRAE is now accepting applications for Engineering Technology Scholarships

Participation - If you are a student reading this, we encourage you to participate in our local chapter activities. Let us show you what's going on in ASHRAE. There are scholarships, grants, design competitions and technical publications available to you? Let us help you take advantage of these opportunities.

Please visit: <http://www.ashrae.org/students/> for more information on all the Student ASHRAE activities and opportunities.

Brian Simkins
Student Activities Committee

History

It was a cold night on December 3rd 1957, as the newly formed ASHRAE L.I. Chapter Board of Governors meet for the first time at the Lowell Ave. home of Mr. H.J. Campbell Jr., the new chapter's president. There was excitement in the air and an agenda to be discussed. Let's travel back to that night and take look at the minutes of this first historic meeting. "The Board of Governors meeting was held on December 3rd, 1957 at the home of H.J. Campbell Jr. President, 1033 Lowell St., New Hyde Park, NY at 8:00 PM.

Present:

- H.J. Campbell Jr., President
- James L. Page, Secretary
- Sydney Walzer, Treasurer
- William Hoops, Board of Governors
- William Kane, Board of Governors
- William Cleland, Board of Governors
- Clyde Alston, Vice President (arrived at 10:45 PM)

The following resolutions were approved and passed by the Board:

- An account is to be opened immediately at Hempstead Bank, Main and Fulton Streets. Hempstead L.I. by S.M. Walzer. One signature is to be required for checks of the organization but either the Treasurer or the President may sign. No bond shall be required for the Treasurer or President.
- The fiscal year shall begin March 1st and the dues shall become payable on this date. The first year's dues shall carry through to March 1st, 1959.



It was suggested the Secretary write a letter to the Society as to their recommendations about incorporating the L.I. Chapter. The Secretary is to be responsible for the mailing out dues notices, receipt of dues, dues invoices being printed and mailed out. Stationary is to be ordered from Society in 1000 lots as per Golden Gate Chapter sample. Check on envelop supply or whether to purchase elsewhere. Charter members must pay dues by March 1st, 1958 or relinquish charter membership. Committee chairmen shall be invited to the Board of Governors meetings only when and if necessary. William Cleland shall be Chairman of the Membership Committee. The Membership Committee shall be responsible for dues collection after two months past due date. Announcement shall be made to the general membership concerning the guarantee made on dinner reservations and resultant loss to chapter if reservations are made and not kept.

Clyde Alston shall be Program Chairman with Hugo Basch and Syd Gayle serving on the Committee. The Attendance Committee shall be part of the Membership Committee. The first general meeting shall be held about the middle of January 1958 at Hempstead, Mineola or Westbury. The cost of the dinner shall be \$ 3.00. Double-faced postal cards shall be sent out indicating the time and place of the meeting with detachable reply card for reservation. Speakers at the general meetings shall be selected on the basis of general knowledge and interest. A program shall be presented at every meeting until June unless otherwise decided by the Board of Governors. John Frye shall be Chairman of the By Laws Committee with the original committee to stand as is. The following chairmen were selected:

- Educational Committee: William G. Kane
- Building Codes Committee: William Hoops
- Publicity Committee: Barry Screbnick

The Secretary shall send meeting notices to local newspapers, etc. together with short resume of meetings held previously. A Special Events Committee shall be selected at a later date.

Respectfully submitted: James L. Page – Secretary ”

So it was that December night. Imagine \$ 3.00 for dinner. That and another \$ 2.00 now days will get you a beer. See you at the next meeting.

Nancy Román
Chapter Historian

Research Promotion

Fellow Ashrae members and supporters, I have received the latest Long Island contribution list from Ashrae Headquarters. While I am pleased that funds are accumulating, we are currently at \$6400 dollars, which is approximately 50 percent of this year's goal. We have less than 90 days to hit the goal, which we have done successfully for the past four years. Please take a moment and make your contribution either on line or send a check made out to Ashrae Resource Promotion to my attention. Contributions are tax deductible and also gains your recognition in the National Ashrae Journal as a supporter in the industry that supports you. If you have made a donation and your individual or company name is not listed below, please contact me. I would like to recognize and thank the following Long Island Chapter Ashrae Research Contributors to date:



Mr Michael Gerazounis	Mr Craig D Marshall, PE
Mr Robert A Rankel	Mr Roy Gustafson
Mr Marcel A Bally	Mr Frank D Morgigno
Mr Andrew J Garda	Mr Steven D Friedman
Mr Fred H Weber	Mr Steven R Giammona
Mr Carl E Graber	Mr Robert A Leventhal
Mr Christopher M Schwarz	Accuspec Inc
Mr David G Kwalbrun	MWSK Equipment Inc
Lizardos Engineering Associates PC	Twinco Supply Corporation
Mr Jerome A Silecchia	Ms Nancy Roman
Mr George A Wallace	Mr Peter Gerazounis, PE
Mr Patrick J Lama	Bladykas Engineering P C
Mr Jerome T Norris	James Lasala & Associates
Mr Arthur A Huebner	Applied Technologies of NY Inc
Mr Michael O'Rourke	Anron Heating & Air Conditioning Inc
Mr Joseph V Marino	Mr John D Nally
Mr Peter D Ruppert	Mr Ronald J Kilcarr, PE
Mr Raymond G Schmitt	Mr Craig D Marshall, PE
Mr John D Nally	Mr Roy Gustafson
Mr Ronald J Kilcarr, PE	

Thank you for your continued support.

Steven Friedman - Research Promotion Committee Chair

Membership

A reminder please to those who are delinquent with your Society and Chapter dues, please send off your payment at your earliest convenience. Don't let your membership lapse.

We are having a good year with new member recruitment. We have a total of over 10 new members for this year alone. We are hoping to get some YEA members, which is any member under the age of 30. Please help us to get some new young members, as they are the future of our society. If you would like to help with recruitment please come and see me...you can join the committee.

See you at our next meeting.

Carolyn Arote
Membership Chairman

CTTC**MANAGING IN DIFFICULT ECONOMIC TIMES**

Excerpts from Ashrae Journal article by Kenneth Elovitz, P.E., Esq.

Construction litigation seems to increase when prosperity decreases. If projects cost too much or do not produce anticipated income, some people look to litigation to offset losses. Managing expectations, receivables, and resources might help engineers dodge that litigation.

Manage Expectations. Many claims stem from missed expectations. The client has one idea of what to expect; the engineer has another. To complicate matters, expectations can change over the course of a project. Exposures that were acceptable at the outset sometimes brew trouble if the project runs into financial difficulty. Engineers cannot do much to combat changing expectations. However, engineers can do a lot to define expectations up front. They can describe the scope of their services and how they plan to carry out that scope. Every client should receive a written scope of services for every project. It might be a detailed response to an RFP, but it also could be a simple letter confirming a request for services. Clients like that kind of mail. Besides, what could be wrong with sending a letter that starts with “Thank you for requesting our services” and explains what you plan to do?

A document on file that defines what the engineer agreed to do might prevent a claim if things go wrong. Maybe the client will reread the letter, understand what the engineer was supposed to do, and realize the unfortunate situation is not the engineer’s fault.

Manage Receivables. Clients who pay promptly often take 45-60 days. Recognize that firms incur continuing obligations like payroll and office expenses every month. It is soon obvious that firms need cash on hand of almost 25% of their annual billings. The longer clients take to pay, the more cash firms need just to stay alive. The first step in managing receivables is to bill regularly. Before the bills go out, give clients something tangible like reports or progress prints that they can associate with each bill.

When clients request proposals, they think engineers perform useful functions. When engineers visit the site or send memos, clients often think, “This guy is good.” When clients receive reports or drawings that solve a problem, they are usually impressed. But if the bill comes more than a few weeks after the engineer has left the scene, many clients start thinking “I didn’t need an engineer for that.” Billing promptly, while the client still appreciates engineering services, can avoid that drop in perceived value and increase the chance of getting paid.

Conscientious receivables management can help if a client goes bankrupt. The Bankruptcy Code creates a concept called “preferences.” Preferences are money a creditor (engineer) can be forced to pay back to the debtor (client). Preferences do NOT include payments made in the ordinary course of business, according to ordinary business terms, on debts incurred in the ordinary course of business. Regular payments on regular invoices are more likely “in the ordinary course” than random payments on delinquent invoices. Therefore, regular billing reduces the risk of having to return money received shortly before a client files for bankruptcy as a preference.

Manage Resources. People are typically a firm’s most valuable resource. Cutting staff can make it difficult to obtain new talent when business picks up. Slow times are an opportunity to invest in continuing education to maintain or improve skills. If the firm has a good crystal ball, slow times might be chance to develop new skills that will be in demand when business rebounds. Think of the business successes of the first people to jump on the alternative refrigerant and indoor air quality bandwagons. Managing resources including managing workload. Slow times tempt engineers to drop everything and pounce full force on any assignment that comes in the door. Don’t. It perpetuates the boom and bust cycle. Tackle projects at a normal pace, and continue business development activities like training and education. Save some work at the end of each day so tomorrow can start off productively and accomplish something. Like starting the day with a smile, a burst of forward momentum can last all day.

Steven Giammona, P.E.

Chapter Technologies Transfer Committee Chair

ASHRAE Release No. 1

20 Projects Funded - Clear Ice Maker Developed Through ASHRAE Grant

ATLANTA – Improved refrigeration technology and beautification come together in a teaching project being funded by ASHRAE.

Through a grant from ASHRAE, students at Pennsylvania College of Technology will design and build a large-scale, clear ice maker for their refrigeration lab. The device also will be used by students in the School of Hospitality for decorative ice carvings.

Twenty grants, totaling some \$118,000, have been awarded by ASHRAE to colleges and universities worldwide to promote the study and teaching of HVAC&R, encouraging undergraduate students to pursue related careers. The grants are used to design and construct projects.

Currently, students in the college's hospitality school use small clear ice blocks that include an unattractive seam where they are connected. The HVAC construction and design technologies students will build a device that produces a large volume, monolithic clear ice structure suitable for carving, which is more attractive than the seamed ice.

To do so, they will use mechanical refrigeration with an intermediate cooling fluid routed through a custom enclosure. The design also includes a reverse osmosis unit for water purification and a custom water distribution system to introduce the treated water into the enclosure. Heating strips will be incorporated to facilitate removal of the clear ice, while PLC controls are used to automate the water flow and freezing rates.

"The device will improve upon the state-of-the-art refrigeration systems used in developing optically clear ice," Thomas Ask, faculty advisor, said. "The final product also will be beneficially used and appreciated by those in our school of hospitality."

Other ASHRAE grant recipients are:

- Alfred (New York) State College, Multi-Zone Natural Gas Fired Radiant Heating System
- American University of Beirut, Experimental Study of a Combined Solar Desalination and Air-Conditioning Unit
- De La Salle University, Manila, Design, Fabrication and Testing of Cold Thermal Storage System with Provisions for Occupancy Sensor
- De La Salle University, Manila, Development of an Energy Efficient Indoor Air Treatment Intelligent System
- East Carolina University, Design and Construction of a Laboratory Unit for Testing the Characteristics of Axial Flow Fans
- Grove (Pennsylvania) City College, Refrigeration Laboratory Experiment and Instruction Aid
- Jimei University, Fujian, China, Design and Construction of an Experimental Facility for Variable Air Volume Systems
- Lamar University, Beaumont, Texas, Solar Water Heating System Demonstrator
- Louisiana Tech University, Design and Construction of Thermal Components Test Stands
- Purdue University, Integration of Solar Heating with HVAC System
- Rochester Institute of Technology, Laminar/Turbulent Pipe Flow Lab
- The Catholic University of America, Washington, D.C., Two-Phase Thermal Loop for Undergraduate Thermal Sciences Laboratory
- Trinity University, San Antonio, Texas, Design and Construction of a Secondary Loop System to Measure Heat Transfer and Fluid Flow of Microencapsulated Phase Change Material Slurry in a Heat Exchanger
- Universidad Pontificia Bolivariana, Columbia, South America, Design and Construction of an Energy Storage Module for the HVAC Lab
- University of Cincinnati, Design, Build, Test and Modeling of Novel Radiant Wall Panels for Office/Solar Home Heating and Cooling Using Thermoelectrics Powered by Solar PV Array
- University of Coimbra, Portugal, Building of a Small-Scale Plant for Demonstration of Solar Adsorption Refrigeration Cycle
- University of Kansas, Fan and System Effects Experimental Apparatus
- University of Oregon, Thermal Circuiting
- University of Windsor (Ontario), Air Diffusion in a Model Room

ASHRAE, founded in 1894, is an international organization of some 50,000 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.

ASHRAE Release No. 2

Engineers Without Borders Founder to Speak at ASHRAE '007

ATLANTA – With an estimated population increase of 2 billion people in the next two decades, unprecedented demand will exist for energy, food, water, land, transportation, waste disposal, health care and infrastructure.

The role of engineers will be critical in fulfilling those demands from remote small communities to large urban areas.

“As we enter the first half of the 21st century, the engineering profession must embrace a new mission statement – to contribute to the building of a more sustainable, stable and equitable world,” says Bernard Amadei, Ph.D.

Amadei is the founding president of Engineers Without Borders - USA and the co-founder of the Engineers Without Borders-International network.

He will serve as keynote speaker, kicking off the technical program at ASHRAE's 2007 Annual Meeting, June 23-27. His presentation takes place at 9:30 a.m. Sunday, June 24. A meeting badge is required to attend. For more information, visit www.ashrae.org/longbeach.

The mission of EWB-USA is to partner with disadvantaged communities to improve their quality of life through implementation of sustainable engineering projects, while involving and training internationally responsible engineering professionals and students.

Amadei says a new generation of engineers must be trained who can better meet the challenges of the developing world and address the needs of the most destitute people on the planet. Today, an estimated 20 percent of the world's population lacks clean water, 40 percent lacks adequate sanitation and 20 percent lacks adequate housing.

His presentation will focus on the challenges and opportunities with practicing engineering as well as the education of engineering. He also will discuss the importance of integrating engineering with non-engineering disciplines when addressing the needs of developing communities.

“I'm excited about the challenges and opportunities given to ASHRAE,” Terry Townsend, ASHRAE president, said. “Our technology and expertise is without borders.”

Amadei is a professor of civil engineering at the University of Colorado at Boulder. His current interests cover the topics of sustainability and international development. At the university, he is leading a new paradigm shift in engineering education and practice called earth systems engineering (ESE). It emphasizes the interaction between the built environment and natural systems.

As part of the ESE initiative, Amadei directs a new program in engineering for developing communities, with a mission to educate globally responsible engineering students and professionals who can offer sustainable and appropriate solutions to the endemic problems faced by developing communities worldwide.

One of Amadei's goals is to promote sustainable development, appropriate technology, service learning, and system thinking in the curriculum and research of civil engineering programs at CU Boulder and other U.S. universities.

He is working on a new book, *Engineering with Soul*.

ASHRAE, founded in 1894, is an international organization of some 50,000 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.

Editors Note: A photograph of Amadei is available upon request, along with a first-hand account of an ASHRAE member who is a volunteer with Engineers Without Borders.

ASHRAE Release No. 3

ASHRAE to Fund Research on Operating Room Air Distribution

ATLANTA – Some 700,000 cases of surgical site infections occur each year, leading to time away from work, degraded life style, suffering, and in some cases, death.

New research funded by ASHRAE is expected to decrease patient exposure to particles that cause these infections by enhancing design guidelines for hospital operating rooms.

ASHRAE recently released nine projects for bid, including 1397-TRP, Experimental Investigation of Hospital Operating Room (OR) Air Distribution.

The research is expected to verify earlier analysis that a protective thermal plume maintained above the surgical site will reduce the deposition of infectious particles, according to Robert Cox, a member of ASHRAE's technical committee, 9.6, on health care facilities, which is sponsoring the project.

"These results will have significant impact on practical operating room design guidelines, allowing designers to better place air distribution in the operating room to maximize the HVAC system's impact on preventing spread of infection and to perhaps reduce overall airflow rates in the operating room," Cox said.

Results also could be used to improve air distribution engineering elsewhere in health care, such as patient protection rooms and infection isolation rooms, and in similar applications, such as industrial clean rooms.

For more information on how to submit a project bid, visit www.ashrae.org/research. Other projects currently open for bid are:

- 1287-TRP, Particle Counter Specification for Use with Filter Performance Test Standard ANSI/ASHRAE 52.2, sponsored by technical committee (TC) 2.4, Particulate Air Contaminants and Particulate Containment Removal Equipment;
- 1361-TRP, Biological Control in Cooling Towers Using Non-Chemical Water Treatment Devices, TC 3.6, Water Treatment;
- 1376-TRP, Method of Test to Evaluate Field Performance of Commercial Kitchen Ventilation Systems, TC 5.10, Kitchen Ventilation;
- 1388-TRP, Reevaluation of High-Altitude Effects on Operation of Gas-Fired Boilers and Water Heaters, TC 6.10, Fuels and Combustion;
- 1394-TRP, Study of Carbon Dioxide Condensation in a Chevron Angle Plate Geometry Exchanger, 8.5, Liquid-to-Refrigerant Heat Exchangers;
- 1402-TRP, Comparison of Vertical Display Cases, TC 10.7, Commercial Food and Beverage Cooling Display and Storage;
- 1431-TRP, Analysis of Transient Characteristics, Effectiveness and Optimization of Cleanroom Airlocks, TC 9.11, Clean Spaces;
- 1457-RFP, By-product Production from Photocatalytic Oxidation Associated with Indoor Air Cleaning Devices, TC 2.3, Gaseous Air Contaminants and Gas Containment Removal Equipment.

ASHRAE, founded in 1894, is an international organization of some 50,000 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.

Indoor Environmental Design: Practical Solution to Everyday Problems



ASHRAE Long Island & New York Chapter presents:

Indoor Environmental Design: Practical Solution to Everyday Problems

when

**Wednesday,
18 April 2007**

where

**Trane New York
45-18 Court Square
Long Island City, NY 11101**

Time: 12:00 – Lite lunch

1:00 – 4:00 - Broadcast



3 PDH credits will be awarded

**You must go to the ASHRAE
Website to register for these
Credits, after the Broadcast**

***Be our guest ... and attend this live, satellite broadcast
as ASHRAE presents:***

Indoor Environmental Design: Practical Solutions to Everyday Problems

This broadcast will present specific solutions to the everyday challenges of achieving indoor environmental quality within real-world budget constraints. Speakers will describe how you can provide ventilation air that helps protect the building from mold risk, how to avoid the three most common mistakes in ventilation system design and operation, how to achieve all three goals of IAQ, thermal comfort and noise control at lower cost through better air distribution decisions, and how to provide comprehensive filtration without breaking your budget.

Presenters:

- *Hoy R. Bohanon, Jr.*
- *William J. Coad*
- *Lew Harriman*
- *Daniel Int-Hout*
- *Christopher O. Muller*

How do you register for this event?

- Complete the form provided below.
- Registration deadline: **Friday, April 13, 2007**

To register: call **718-269-3600** or fax this form to **718-269-3601**, or e-mail this information to **dcurtin@trane.com**

*Yes! I plan to attend this
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Your company _____
Number of _____
attendees _____

8th Annual ASHRAE Golf Outing - Monday, May 7th, 2007



Place: Cherry Valley Club
Garden City, NY

Brunch: 11:00 am

Shotgun Start: 12:30 pm

Reception: 5:30 pm

Dinner: 6:30 pm



**This event fills up fast, to guarantee a spot RSVP Soon.
(2) Foursome Limit Per Company.**

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

CHECKS MUST BE IN BY APRIL 13, 2007

Fax entire sheet or cut this half and return

Name _____ Company: _____
Address: _____ Phone: _____
City, State, Zip _____ Fax _____

Guest 1: _____ Company: _____
Guest 2: _____ Company: _____
Guest 3: _____ Company: _____



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Mail checks to:

MGJ Associates

Attn.: Peter Gerazounis, P.E.

116 West 32nd Street, 12th Fl

New York, NY 10001

Fax: (212) 643-0503

Golf & Meals: \$300pp x _____ = \$ _____

Reception and Dinner: \$130pp x _____ = \$ _____

Sponsor Dinner: \$1,000 ☐ YES = \$ _____

Sponsor Lunch: \$ 500 ☐ YES = \$ _____

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Sponsor Prizes: \$ 500 ☐ YES = \$ _____

Sponsor Beverage Cart: \$ 500 ☐ YES = \$ _____

Sponsor Hole: \$ 200 ☐ YES = \$ _____

8th Annual ASHRAE Golf Outing - Program

Cherry Valley Club
28 Rockaway Avenue at Third Street
Garden City, NY
Telephone: (516)746-4420
Fax: (516)746-4421

PROGRAM:

11 a.m. Brunch in the Clubroom & Lounge – including Omelet station, deluxe deli board with rolls, chicken scarpiello, danish, croissants, bagels & cream cheese, sliced nova, fresh fruit and cheeses, Good Humor ice cream cart.

12:30 p.m. Shotgun Start Golf – Playing individual scores. Prizes for long drive, closest to the pins, low gross and callaway. Refreshments at the halfway house will include packaged snacks and whole fresh fruit, hot dogs, beer & soda. A snack cart will also be on the course. Carts, forecaddies, driving range, locker room and showers are all included in the price.

5:30 p.m. Following Golf - Open Bar with hot and cold horsd'ouvres in the Main Lounge. Fresh mozzarella with sundried tomatoes, cajun chicken, spring rolls, baby lamb chops, sesame chicken, turkey canapés, fried oysters, cheeses, fresh fruit, lobster halves, fresh clams & oysters, shrimp and crab claws.

6:30 p.m. Reception Dinner – Awards and raffle in the Main Dining Room. Carving stations of beef tenderloin & turkey breast. Chafing dishes of chicken & salmon featuring the chef's specialty, pasta station with marinara or vodka sauce, and choice of tossed or Caesar salad. Viennese dessert table following the dinner featuring pastries, fruit, cookies, assorted cakes and pies. Full beverage service throughout is included.

Women are also invited to attend and participate. There are locker room facilities available. The Cocktail hour and Dinner will also be available for those who cannot attend during the day for the golf.

Note: We are limited to 128 golfers. Openings will be filled on a first come-first serve basis. Corporate sponsorships will be available and raffle items will be welcome. Proper golf attire is a requirement for the golf course. Soft spikes are required. Please wear a jacket for the dinner.

8th Annual ASHRAE Golf Outing - Directions & Dress Code

Cherry Valley Club
28 Rockaway Avenue at Third Street
Garden City, NY
Telephone: (516)746-4420
Fax: (516)746-4421

DIRECTIONS:

From the North Shore of Long Island: Take the Long Island Expressway to Exit 34 South (New Hyde Park Road Southbound), Grand Central Parkway (Northern State Parkway) to Exit 26 South (New Hyde Park Road Southbound) or Jamaica Avenue (Jericho Turnpike) Eastbound to New Hyde Park Road. Travel Southbound on New Hyde Park Road for approximately 5 to 7 miles to Stewart Avenue (You will cross over a set of railroad tracks). Take Stewart Avenue eastbound for approximately 1-1/2 miles to Cherry Valley Avenue. Travel Southbound on Cherry Valley Avenue for 1/2 mile, Cherry Valley Avenue becomes Rockaway Avenue. Continue on Rockaway Avenue and the entrance to Cherry Valley Club will be on your right.

From Local Points North: Take Old Country Road or Stewart Avenue to Franklin Avenue. Travel Southbound on Franklin Avenue to Fourth Street (just after crossing over railroad tracks). Turn right on Fourth Street and continue until it ends (Rockaway Avenue). Cross over Rockaway Avenue into the Cherry Valley Club's parking lot.

From the South Shore of Long Island: Take the Southern State Parkway to Exit 19 (Peninsula Boulevard-Hempstead/Garden City). Travel Northbound on Peninsula Boulevard for approximately 1/2 mile to President Street. Bear left on President Street (Northbound) for approximately one mile and cross over Hempstead Turnpike. President Street will become Cathedral Avenue. Continue on Cathedral Avenue for one mile to Fourth Street. Make a left on Fourth Street (Westbound) and continue until it ends (Rockaway Avenue). Cross over Rockaway Avenue into the Cherry Valley Club's parking lot.

From Local Points South: Take Hempstead Turnpike to Franklin Avenue. Travel Northbound on Franklin Avenue to Fourth Street. Turn left on Fourth Street and continue until it ends (Rockaway Avenue). Cross over Rockaway Avenue into the Cherry Valley Club's parking lot.

DRESS CODE:

- Jeans, designer or otherwise, are not acceptable on club property. This not only includes pants, but skirts and cut-offs.
- T-shirts and tank tops are not in keeping with the atmosphere of the club and as such are not acceptable. The definition of T-shirt includes those with psychedelic coloring or suggestive printing.
- If the Main Dining Room is going to be utilized for any golf outing, jackets are required. Smoking is permitted in the Main Lounge and Member's Grill areas only.
- Short shorts are not permitted on the golf course, practice tee or putting green by either male or female. Bermuda shorts of acceptable length are permitted. Jogging attire and denim pants are not considered proper attire for the golf course.
- **Soft spikes** are mandatory at all times on our fine golf course. If your shoes need soft spikes, arrive early so we can change them. There is a nominal fee. There is **no** exception to this rule.

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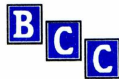
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