

THE LONG ISLAND SOUNDER

April 2011



www.ashraeli.org

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

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

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President's Message

Greetings! Last meeting, we welcomed two presentations and two speakers. Last month served as YEA night so the first speaker, ASHRAE Distinguished Lecturer and Past President Evans Lizardos, reviewed the basics of using a Psychrometric Chart in HVAC design. The second presenter for the night was Jeff Bachman of Merak and he discussed the unique requirements for railcar based HVAC equipment. Past Presidents in attendance were: Evans Lizardos 1978, Donald Stahl 1992, Alan Goerke 1998 and John Nally 2006.



The ASHRAE year is coming to an end in June and at this point our officers and committee members are working towards wrapping up their duties. Some will continue their work on the same committee the following year, while some will move on to different committees and responsibilities. Our Programs Chair Carolyn Arote just came back from President-Elect Training in Troy, NY this weekend. My last duty is to assure that she steps into the position, hitting the ground running with a successful organization made up of bright, hard working, supportive and generous leaders as we have now. This is a volunteer organization and as many of us, they have limited time and there are areas we can use the help of our members to take on positions of leadership and support in committees and to join the board in the years to come. We welcome members to become more active, whether it's the show of support in a simple task or the leadership of a committee. Contact myself, President-Elect Carolyn Arote or any of the members of the Board or committees to discuss what you can do. We have all worked hard to provide our members with an excellent program full of technical content and fellowship throughout the year. At the end, we give back to Society the financial support to help sustain its programs that benefit so many. While we are proud of our achievements and contributions, our chapter is comprised of individuals and companies that make up the member body whose financial support to our organization is essential to its existence.

There are three major contributions that help support the chapter:

Resource Promotion: These funds go directly to society to support its various programs. Andy Manos chairs the committee that collects donations.

Newsletter Advertising: Advertising in the newsletter provides excellent exposure for your firm to our membership and associates on our mailing list. Contact Chapter Treasurer Tom Fields to submit.

Golf Outing Sponsorship: The golf outing is our one major fundraiser each year the success of which is based on the sponsorship. Contact Steven Friedman or Peter Gerazounis to submit.

CHAPTER MONTHLY MEETING

DATE:	Tuesday, April 12, 2011
TIME/ LOCATION:	ANNUAL FIELD TRIP SEE PROGRAM SECTION FOR DETAILS
FEES:	
Members/	\$25 per person
Guests/	(Includes Dinner and Drinks
Students	Afterwards)

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

Continued on Pg. 3

Long Island Chapter Officers & Committees

ASHRAE 2010/2011 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	Nancy Román	516.568.6509	516.568.6586	nroman@adehvac.com
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Treasurer	Janeth Costa	631.242.8787	631.242.7084	jcosta@apollohvac.com
Secretary	Richard Rosner, P.E.	631.737.9170	631.737.9171	rrosner@csfllc.com
Board of Governors	Thomas Fields, P.E., LEED AP	631.737.6200	631.737.2410	t.fields@fpm-group.com
Board of Governors	Charles Lesniak	516.484.1020	516.484.0926	charles.lesniak@leapc.com
Board of Governors	Steven Giammona, P.E., LEED AP	516.827.4900	516.827.4920	sgiammona@ cameronengineering.com

ASHRAE 2010/2011 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	Carolyn Arote	516.568.6550	516.568.6575	carote@adehvac.com
Membership	Thomas Fields, P.E., LEED AP	631.737.6200	631.737.2410	t.fields@fpm-group.com
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Historian	Charles Lesniak	516.484.1020	516.484.0926	charles.lesniak@leapc.com
Student Activities	Richard Rosner, P.E.	631.737.9170	631.737.9171	rrosner@csfllc.com
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Webmaster	Andrew Dubel	516.484.1020	516.484.0926	Andrew.dubel@leapc.com
Nominating	Michael Gerazounis, P.E., LEED AP	212.643.9055	212.643.0503	michael.gerazounis@mgepc.net
Reception & Attendance	Don Kane, P.E.	631.737.9170	631.737.9171	dkane@csfllc.com
PR & Engineering Joint Council of LI	Peter Gerazounis, P.E. LEED AP	212.643.9055	212.643.0503	peter.gerazounis@mgepc.net
Golf Outing	Peter Gerazounis, P.E., LEED AP Steven Friedman, P.E., HFDP, LEED AP	212.643.9055 212.354.5656	212.643.0503 212.354.5668	peter.gerazounis@mgepc.net sfriedman@akfgroup.com

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President's Message (Cont'd from Page 1)

Our next meeting will be the annual field trip on April 12TH. Attendees will be given 1PDH for a discussion and tour of the "Workforce Development & Technology Building" at Suffolk County Community College's Grant Campus. The tour will focus on the facilities and instructional approach used in the HVAC/R program, including computer station, hands-on work with equipment and field energy audits. Dinner and drinks will follow at a local restaurant. RSVP is required to attend so reserve your spot with our Program Chair, Carolyn Arote via email at carote@adehvac.com.

Looking ahead on our calendar:

Spring is in the air and the days are getting a little warmer. It's time to find that golf bag and dust off those clubs. Registration is open for the 12TH Annual ASHRAE Long Island Chapter Golf Outing being held May 2ND at the Cherry Valley Club in Garden City. This is ASHRAE Long Islands' biggest fund raiser and we rely on your generosity. Registration forms can be found in the newsletter and online. The deadline is April 15TH so don't miss out and reserve your spots now.

There will be plenty going on during the May meeting so don't miss out. First is the vendor showcase during the cocktail hour 6:00-7:00PM hosted by Richard Gerbe of SRS Enterprises Inc. The showcase will include Plasma Air's products. Stop by and find out how these products are designed to improve indoor air quality, save on first cost and provide ongoing energy costs. Second we have a Back to Basics program 7:00-7:30PM on basic air handling selections given by David Shaw and James Hanna of the Trane Corporation. This is followed by the main presentation of the night which is Indoor Air Quality, Air Cleaning, Energy and Maintenance given by Duke Wiser, CEO of Environmental Dynamics Group Inc.

Check out our website www.ashraeli.org for more details on this and other upcoming programs and events.










Thank you for your continued support of the Long Island Chapter of ASHRAE and see you on April 12TH.

*Nancy Román, President
Long Island Chapter*

April 21ST 1:00 to 4:00 PM EDT FREE ASHRAE Webcast on Ground Source Heat Pump Systems. Hear from leading heat pump experts how site, climate, building, HVAC system and ground characteristics affect ground heat exchanger design, how ground source system design enhances efficiency, and how to avoid design and operations pitfalls. This free webcast is brought to you by the Chapter Technology Transfer Committee and sponsored by Climate-Master, Mammoth, Taco, International Ground Source Heat Pump Association, and the ASHRAE Foundation.

RSVP is required. To register and for more information go to www.ashrae.org/ghpwebcast

Chapter Monthly Meeting - Program for 2010/2011

September 14, 2010 * At Westbury Manor  Dinner Presentation - Variable Refrigerant Flow Systems Presenter: Ray Schmitt REFRIGERATION NIGHT **1 PDH**	February 2011  NATIONAL ENGINEERS WEEK Feb 20 through Feb 26
October 19, 2010 * At Westbury Manor  Dinner Presentation – Harmonic & Power Quality Presenter: Ken Scherer RESEARCH PROMOTION NIGHT **1 PDH** <i>* Meeting will be held on 3rd Tuesday of the month.</i>	March 8, 2011 * At Westbury Manor  Dinner Presentations #1- Back to Basics Presentation Presenter: Evans Lizardos, P.E., LEED AP #2 (Main Presentation)-HVAC for Rail Transportation & new refrigerant development. Presenters: Cameron Akins, Jeff Bachman, Al Lee YEA NIGHT **1 PDH**
November 16, 2010 * At Westbury Manor  Dinner Presentation - Understanding SMACNA's New Duct Leakage Standard Presenter: Mark Terzigni-SMACNA National JOINT MEETING WITH SMACNA **1 PDH** STUDENT ACTIVITIES, MEMBERSHIP & YEA NIGHT <i>* Meeting will be held on 3rd Tuesday of the month.</i>	April 12, 2011 ANNUAL FIELD TRIP Suffolk Community College Brentwood Campus Workforce Development and Technology Building **1 PDH**
December 14, 2010 * At Westbury Manor  HOLIDAY PARTY	May 2, 2011 * Cherry Valley Club, Garden City, NY ANNUAL GOLF OUTING
January 11, 2011 * At Westbury Manor  Dinner Presentation – Standard 189.1 Standard for the Design of High-Performance Green Buildings Presenter: Mark MacCracken Distinguished Lecturer **1 PDH**	May 10, 2011 * At Westbury Manor Dinner Presentation- Indoor Air Quality, Air Cleaning, Energy and Maintenance Presenter: Forwood Cloud "Duke" Wiser III STUDENT ACTIVITIES NIGHT
February 9, 2011 * At Westbury Manor  Dinner Presentation- Modeling a Sustainable World Presenter: Lynn Bellenger- President ASHRAE & Distinguished Lecturer <i>*Meeting will be held on 2nd Wednesday of the month.</i> Joint Meeting with USGBC RESEARCH & MEMBERSHIP PROMOTION NIGHT **1 PDH**	June 14, 2011 * At Westbury Manor PAST PRESIDENTS & OFFICER INSTALLATION
February 2011  ASHRAE WINTER MEETING - Jan 31-Feb 2 Las Vegas Convention Center, 3150 Paradise Rd, Las Vegas, NV	

August 2011 - Chapter Regional Conference Region I
New York, NY August 18-20

PAOE POINTS FOR 2010/2011

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	Chapter PAOE Totals
295	325	125	1,999	225	1,135	575	4,384

April Field Trip



ASHRAE LI CHAPTER'S ANNUAL FIELD TRIP TUESDAY, APRIL 12, 2011



**Attendees
Will Earn
1 PDH!**

DATE:	TUESDAY, APRIL 12, 2011
ITINERARY:	5:00 PM: Tour Workforce Development & Technology Building (Meet in the Lobby by the HVAC/R Museum Display)
FEE:	Members: \$30 per person Non-Members: \$40 per person <i>*Includes Dinner and Drinks Afterwards @ Bertucci's - Restaurant located at 358 Motor Parkway (soft drinks included – cash bar available)</i>
LOCATION:	Suffolk County Community College, Grant Campus, Brentwood, NY
ABOUT THE TOUR:	The Workforce Development & Technology Building, at the Grant Campus of SCCC was designed and built with a focus on its intended use. Building mechanical systems are "on-display" (including a mechanical room with large viewing windows from the hallway and heat exchanger flanking the main entrance, rather than being hidden away). Designed to meet LEED Gold requirements, the facility houses the SCCC's HVAC/R laboratories and classrooms, as well as the Manufacturing Technology facilities, equipped with manual and CNC machine tools and welding labs. In addition to a tour of the physical plant, with commentary by Paul Cooper, PE; Eugene Silberstein, professor of the HVAC/R Associates of Applied Sciences program, will highlight the pedagogical approach employed, including computer simulation and "hands-on" work with current generation HVAC/R equipment and associated controls.

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

April Field Trip



ASHRAE LI CHAPTER'S ANNUAL FIELD TRIP TUESDAY, APRIL 12, 2011

**Workforce Development & Technology Building
Suffolk County Community College
Grant Campus, Brentwood, NY**

**Attendees
Will Earn
1 PDH!**

RSVP Form - Reservations are Required!
Email to Carolyn Arote @ carote@adehvac.com

By April 5th, 2011

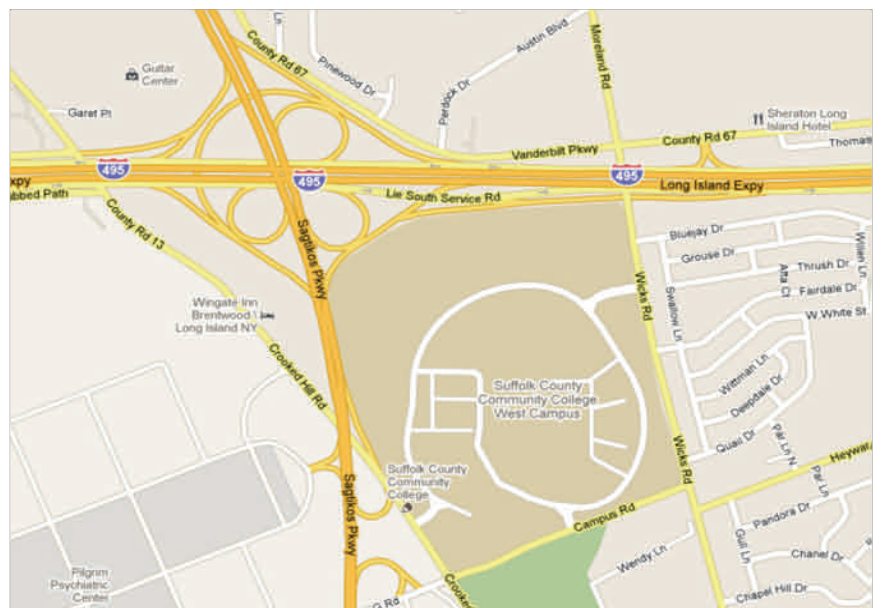
I would Like to Attend (NAME):	
Phone #:	
Email:	

Directions:

*The Michael J. Grant Campus,
Brentwood, NY:*

From the East, take the Long Island Expressway to Exit 53. Follow signs to Wicks Road. Go south ½ mile on Wicks Road to campus entrance on right-hand side. Take the Loop Road to the right to parking field.

From the West, take the Long Island Expressway to Exit 52, Commack Road. Cross over Commack Road, stay to right to Crooked Hill Road. Right on Crooked Hill Road to the campus entrance on the left. Take the Loop Road to the left. Make the second right, at the Workforce Development & Technology Bldg. Into the parking field.



Board of Governors Meeting Minutes

DATE: Tuesday, March 8, 2011

LOCATION: Westbury Manor

Attendees were Nancy Roman, Carolyn Arote, Brian Simkins, Janeth Costa, Andy Manos, Richard Rosner, Tom Fields, Charlie Lesniak, Steven Giammona and Guests Andrew Dubel and Donald Kane.

President Nancy Roman called the meeting into session at 5:07 PM.

General: Nancy Román – Asked to approve the meeting minutes from the last meeting which then were approved. Newsletter-star program-back up plan discussion was postponed until the June meeting. April newsletter articles are due in one week along with articles for the next 3 months. Copies to be sent to Andrew Dubel, Andrew.Dubel@leapc.com & Anthony Bikowski abikowski@dnbmechanical.com when submitting articles to Nancy and Liset. While Liset is on maternity leave from work, articles shall be sent to Andrew Dubel. It was noted that Carolyn Arote has registered for president elect training.



Programs: Carolyn Arote & Don Kane – A restaurant for dinner after the field trip in April close to campus was finalized on for Bertucci's located at 358 Vanderbilt Motor Pkwy., Hauppauge, NY 11788 Phone: 631-952-2100. Please register with Carolyn for those attending in advance of the meeting. PDH credits will be offered for this event. The committee reminded to check the web site for a former presentation that had been given with other new ones following shortly.

Resource Promotion: Andy Manos – The product directory has been printed. Andy is trying to get a quicker turnaround on recognition for RP donations from ASHRAE national. RP is only \$700 away from goal at this time.

History: Charles Lesniak – Is digitizing Archives and updated the PAOE points. Charlie is looking for people to interview for publishing in the newsletter. Charlie is also looking for pictures from the chapters past history and of recent events for publishing.

Webmaster: Andrew Dubel – PAOE Update. Has met with Liset and is ready to take over on a temporary basis the newsletter from Liset during the time she will be out for the baby.

Treasury: Janeth Costa – A report was given showing a financial update, with TD Bank having a balance of \$7,557.55 and the money market account having \$8,017.03.

Membership Promotion: Tom Fields – Will update the PAOE points. Tom needs to know if you are a YEA member (35 and under).

Student Activities: Richard Rosner – A Student Poster Contest for high schools is moving along. Rich had a flyer for the board to review. Comments were made and the flyer will go out before the next meeting with a due date of May 15th for the posters. Three students signed up at last months meeting and their paper work has been processed.

Chapter Technology Transfer (CTTC): Brian Simkins – Advised there will be a ground source heat pump webinar on April 25th.

YEA: Charlie Lesniak, Andrew Dubel – A Back to Basics premeeting lecture talk will be given this evening with Evans Lizardos kicking off the series. PAOE points were updated. Charlie advised to watch for Rich Gerbe's premeeting table showcase before our May meeting. Trane is being considered for a back to basics seminar at a meeting.

Golf Outing: Steve Friedman, Peter Gerazounis – The date is May 2ND 2011. Look on the web site for a registration form.

Having discussed all open issues, the meeting was adjourned at 6:05 PM.

Richard L. Rosner, P.E.
Chapter Secretary, 2010-2011

Research Promotion

I would like to thank the companies who have participated in the annual 2011 Product Directory of Manufacturers and their Representatives.

The Product Directory has been prepared as a service to all its members and as a service to the local HVAC industry. It will be made available to all ASHRAE and non-ASHRAE members at no-cost and can be obtained from our monthly meetings or directly from our web-site.

The Directory is intended to provide better communications between manufacturers and their sales representatives; engineers who specify products; contractors who purchase and install the equipment; and other interested parties. Product Directory listings are not limited to ASHRAE members and the listings are not to be considered as advertising or endorsement by ASHRAE of any product, manufacturer or representative.

This year's overall research promotion goal is \$2,001,900 with over 75 research projects on board. Our chapter is expected to raise approximately \$12,881 towards the overall goal of which we have already raised \$14,285. I am hoping I can count on the continued support of all of our past contributors who have generously supported us over the years. I also look forward to gaining the support of new contributors this coming year. Please help support ASHRAE in any way you can.

I would like say 'thank you' to all the contributors listed below whom have already donated to ASHRAE this year:

INDIVIDUALS

Mr Andrew B Dubel
 Mr Andrew E Manos
 Mr Anthony J Rosasco, Sr
 Mr Brian C Simkins
 Ms Carolyn Arote
 Mr Charles J. Lesniak
 Mr Charoulis Charalambous
 Mr David Robert Jendras
 Mr Douglas Constantine, PE
 Mr Evans J Lizardos
 Ms Janeth Costa
 Mr Jerome T Norris
 Mr Jerome A Silecchia
 Mr John D Nally
 Mr Joseph V Marino
 Mr Michael Gerazounis, PE, LEED AP
 Mr Michael O'Rourke
 Ms Nancy Roman
 Mr Patrick J Lama
 Mr Raymond G Schmitt
 Mr Richard L Rosner, PE
 Mr Ronald J Kilcarr, PE
 Mr Steven D Friedman, PE, HFDP, LEED AP
 Mr Steven R Giammona, PE
 Mr Thomas Fields, PE

COMPANIES

Accuspec Inc
 A D E Systems Inc
 Air Control Supply
 A O Smith Water Heaters
 Anron Heating & Air Conditioning Inc
 Applied Technologies of NY Inc
 ASAP Sales
 Bladykas Engineering PC
 Bush Wholesalers
 Carrier Northeast
 Catan Equipment Sales
 Chimney Design Solutions Inc
 Clean Air Company
 Daikin US Corp.
 Dellon Sales
 Gil-Bar Industries
 J-Mar Controls
 Leonard Powers Inc
 Liebert-Emerson Network Power
 Lizardos Engineering Associates PC
 Mason East Inc.
 Mason Industries Inc
 Miller Proctor Nickolas
 Mitsubishi Electric & Electronics USA Inc
 M V Controls
 National Grid
 PVI Industries
 Rathe Associates
 Siemens Building Technologies Inc
 Taco Inc
 Technical Air Systems Incorporated
 Tower Enterprises of New York & New Jersey
 Trane
 Twinco Supply Corporation
 Viessmann
 Wales Darby Incorporated
 Wallace Eannace Associates

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Research Promotion (Cont'd. from Page 8)

CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

1) You can mail your checks, made out to ASHRAE Research Promotion, to:

Andrew Manos
ASHRAE Research Promotion Chair
c/o Stony Brook University
Campus Planning, Design and Construction
Research and Support Services, Suite 160
Development Drive, Stony Brook, NY 11794-6010

2) You can bring your check to any of the meetings and give it to me. I will mail it into headquarters.

3) You can contribute via paypal from the ASHRAE LONG ISLAND web site just click on the donate button.

4) You can contribute directly on-line. www.ashrae.org

*** Please make sure your accredit your contribution to the LONG ISLAND CHAPTER 006 ***

Thank you again for all your support!

Andrew Manos, LEED AP
Research Promotion Chair

Mission: To improve the quality of life and to answer tomorrow's questions through research TODAY.

Over \$2million raised annually to help fund \$10million in research projects and student grant-in-aids.

Research is used to update the Society's standards and guidelines.

Contributions come from more than 6,700 members, non-members, and companies.

100% of all funds raised go directly to research projects that support the HVAC&R industry.

Active research projects are conducted all around the world at various universities and private organizations.

ASHRAE RESEARCH PROMOTION

Important Links:

www.ashrae.org/rp

www.ashrae.org/contribute*

www.ashrae.org/consumer

www.ashrae.org/pressroom

www.ashrae.org/research

*ASHRAE is a qualified 501(c)3 and all contributions are tax deductible.

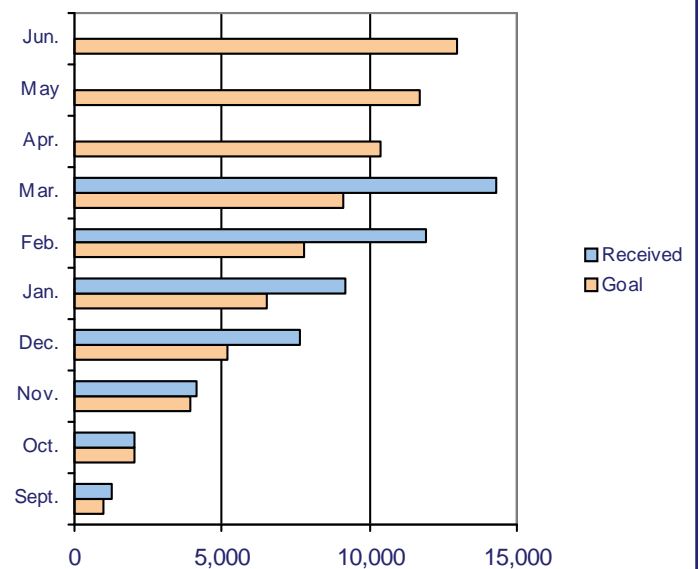
Important Contacts:

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RP Committee Chair
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Gopher56@swbell.net

ASHRAE RESEARCH PROMOTION

**Chapter Research Promotion Goal
For 2010-2011 - \$12,881**



CTTC - Educating the Engineer

Melanie: Mack, ASHRAE Journal just called. They want us to do an article on “Educating the Engineer.” I’ve been in hundreds of schools and I am amazed at some of the design issues that could have been taken care of, if you’d only asked! Seriously, I know that you guys do some great things under severe financial and time constraints. However, I think if teachers are brought into the planning process at the beginning, a more student-friendly design can be established from the start.

Mack: Oh boy, here we go again. I thought you had me trained after 30 years.

Melanie: Well, I keep trying. Let me say my piece, and then I’ll listen to what you have to say.

Mack: Do I have a choice?

Melanie: I’ll start with windows, or the lack thereof. I understand the energy issues involved in using windows, but it is so important to have some access to the outdoors for our kids.

Mack: I hate to encourage you, but you are exactly right. Recent research has shown that children score significantly higher on standardized tests in classrooms that are daylit than in those that are not, which makes daylighting one of the best building-related investments for the learning environment.¹

Melanie: I believe that! From a personal standpoint, I do a lot better when I am not inside a windowless room with a bunch of little kids! I’ve recently read other studies that say that classrooms with windows contribute to eye-health in children, by allowing for changes in focal distance. Daylight also has been shown to reduce stress in students and in teachers. I can personally vouch for that!

Mack: Windows are making a big comeback. For a while, we were not using windows much in school buildings. It was our belief, at the time, that so much energy was lost through the windows that it was not efficient to use them in school buildings. Working closely with the architect on building orientation and window placement with today’s improved materials makes this a less critical issue. Some additional study has shown that it can be better to use windows in school design. “Sustainable design” is the biggest catch phrase in our industry right now.

Melanie: Sustainable design?

Mack: That means a design that does not deplete our natural resources. Windows are a source of natural light and natural ventilation, which contributes to sustainable design. We are engineers, so we make it a little more complicated to mystify the general public.

Melanie: A little “engineer-ese,” huh? So, sunlight is good?

Mack: I said daylight, not sunlight. Sunlight is the hot, glaring beam of light that comes through the windows and heats up the classroom. Daylighting is the even light from the sky and the light reflected from the ground. Getting it into the building is an engineering exercise. Making sure operable windows and HVAC systems work together also takes a little design effort.

Melanie: So, you guys are beginning to put windows back in school designs? What am I going to gripe about now?

Mack: Oh, I’ll bet you’ll think of something.

Melanie: Watch it! Continuing with my punch list of gripes: I’m also concerned about the severe increase in asthma and respiratory-related ailments in young children. I wonder what engineers could do to help us with the increasing problem in the school setting?

Mack: Boy, you are a poster child for sustainable design!

Melanie: And I didn’t even know it....

Mack: Standards have been identified for the off-gassing volatile organic compounds (VOCs) of materials such as carpets and mastics. These VOCs often cause respiratory problems and headaches. The maximum impact of the off-

CTTC (Cont'd. from Page 10)

gasses on occupants over time is rated and the best materials are used in sustainable design. The amount of recycled material in the new building products is also important, as is the recyclability of the materials used in construction when the materials reach the end of their useful life.

Melanie: Is that the life-cycle cost you always talk about?

Mack: Gosh, have you actually been listening? It is not exactly the same as the point I was making about how many times you would have to wear that new dress to get a payback, but the same principle applies. Sustainability proponents take the material from a source, such as a tree, and track the product's impact on the environment from the source to the landfill after it is removed from the project. That includes all the energy used to make it and remove it.

Melanie: That's cool... and I bought another new dress yesterday, so I wasn't really listening.

Mack: Maybe my talking helps with ventilation, if nothing else.

Melanie: Very funny. I am really intrigued with "sustainable design." It's interesting that, after years of study, engineers are arriving at the same conclusions that educators have been talking about for years. Teachers *must* have access to open windows and temperature control.

Mack: But you would never say, "I told you so..."

Melanie: If you had been in the room with about 25 6-year-olds who have been out to recess in the heat, you would remember that puppy-dog smell that teachers have become accustomed to! Ventilation takes on a whole new meaning after recess! I'm talking about the classroom teacher's inability to control the temperature in her own classroom. When we are in an interior classroom, with no operable windows, and no access to the thermostat...well, it's just inhumane!

Mack: Well, you got your way on this one, too. Remember how I used to say that we could not give teachers control of the thermostat because they think 60°F (16°C) is a good setting if they're hot and 90°F (32°C) is good if they're cold? Well, the new thinking is that I was wrong.

Melanie and Mack Wallace '...engineers are arriving at the same conclusions that educators have been talking about for years.'

Teachers must have access to open windows and temperature control.'

Melanie: Imagine that!

Mack: I love room sensors with no room adjustment, but the *Energy Design Guidelines for High Performance Schools* from the U.S. Department of Energy says that teachers *must* be given control, and that they must be given the ability to increase ventilation, open windows, and move shading devices. Of course, they never met you.

Melanie: Moving right along to another issue. As a teacher of young children, I know how important it is to have sinks in every classroom. To do the kinds of constructivist activities that make learning meaningful for students, we need ready access to water. Why is it so hard to convince you guys of that?

Mack: We would love to put sinks everywhere. Talk to the guy who pays the bills. Every sink has a drain and water connections that add to the first cost. Water costs money and hot water costs energy to make. You have to keep sinks clean and avoid standing water. Other than that, it is all good. Can you pay for all of that?

Melanie: Oh no, it makes more sense to leave a bunch of 5-year-olds alone to run to the restroom to get a bucket of water. Well, anyhow. I only have a few more minutes to ask all of my questions. What about noise control in school? I've taught next door to more than one teacher who didn't particularly like the noise level of my active learners! What kinds of things are you learning about that?

Mack: Maybe the kids could sit down in their desks and do work quietly?

CTTC (Cont'd. from Page 11)

Melanie: I can't believe I haven't taught you more than that! I know you're kidding. We know kids learn best when they are up and active and engaged. Learning doesn't happen in silence. When I was principal, I was always a little suspicious of quiet classrooms — I love lots of interactive energy! But, it does create some problems in terms of noise control.

Mack: To protect other teachers from you and your "active learning," the building would need to use sound absorbing architectural surface finishes and sound insulation in the walls. We are asked to reduce background noise in little kids' classrooms. They have a new ANSI standard, S12.60, for classroom acoustics that requires the HVAC equipment be very quiet. You do have quiet time, right?

Melanie: Of course we do. We want quiet when we need quiet and the ability to make plenty of noise when learning calls for movement and action. Actually, I have been reading about the push for quieter mechanical systems in schools. It seems that children, as immature listeners, need a quiet background to hear the sounds that they need to learn to read. Interesting, how this all fits together.

'...kids learn best when they are up and active and engaged.... but, it does create problems in terms of noise control.'

Melanie: Now, one final, tiny gripe.

Mack: (rolling his eyes)

Melanie: Now, seriously. I've been reading some studies out of Berkeley...

Mack: (rolling his eyes) Berkeley...no wonder!

Melanie: Now, come on. These studies are underscoring what teachers have been telling you all along. I've told you for years that I thought we would actually save energy dollars at school by giving teachers control over their individual classroom temperatures, and by having windows that open. Gail Brager, Ph.D., Fellow ASHRAE, from University of California, Berkeley, has found that teachers and kids in naturally ventilated schools are actually more comfortable, in a wider range of thermal conditions, than those in continuously, mechanically cooled buildings.

Mack: Well, you're right...you and your Berkeley friends. We are returning to the basics of natural ventilation. Design for mechanical cooling and natural ventilation are somewhat at odds since big holes are hard to shut tight. However, if the architect and engineer work closely on building design, cross ventilation or maybe stack effect, ventilation can be a very energy-efficient and healthy form of cooling. As you say, people are more forgiving of temperature if they are tied more to the outdoors and the changes in weather, as opposed to being tied to the setpoint they see on the thermostat year round.

Melanie: What is stack effect ventilation?

Mack: As air warms, it rises. If the building has a chimney, the air is motivated to move up and out of the building, drawing in cool air after it. Remember when I worked on the Texas State Capitol Building? The entire building originally was cooled using the rotunda as a giant chimney. They even opened and closed the doors into the copula to control the flow of exhaust air.

Melanie: That makes sense to me. I'm glad that the engineering tide is beginning to turn. I guess that engineering is a lot like education — if we don't like what's happening now, we just have to wait a few years!

Brian Simkins
CTTC

Article In: ASHRAE Journal, May 2003. Please see article for all references and credits.
By Melanie Wallace, Ed.D., and Mack Wallace, P.E., Member ASHRAE

History

For this month's interview I decided to interview Mr. Joseph Marino (LEED Green Associate) the Manager of Facilities Engineering at Newsday. This was a very good interview because I learned how everyone in the engineering world is closely intertwined, and I was able to go on a very sweet tour of the Newsday Facility.



What made you become an engineer?

I wanted to know what made things work. In college I wanted to be in machine design, then I evolved into the HVAC world.

Where did you go to school and when did you graduate?

I graduated from the New York Institute of Technology in 1987.

When and where was your first engineering job?

My first job was with Ebasco Services in the World Trade Center, they were power plant designers and constructors. I designed HVAC on nuclear, fossil fuel, hydroelectric power plants.

What ASHRAE positions have you held? When were you the chapter president?

I was the chapter president in during the years of 1996 and 1997. I held all the committee chairs, plus government affairs which is no longer a committee chair. Now I help edit the ASHRAE Handbook under the printing plant section.

Did you have a mentor?

I still do, everyone needs a mentor. It does not matter if you are young or old. You should always strive to advance your knowledge. When I was younger I worked at Grumman in the Facilities Department, one of the senior engineers (Sal) took me under his wing and taught me how to do calculations, design etc.. Also when I used to work at Grumman we used to contract out our engineering design work to consultants. Don Stahl of Lizardos would sit down with me at my drafting board (pre-AutoCAD days) and he would explain to me why the engineers at Lizardos selected the specific equipment and how and why they designed the system the way they did. In addition my old boss used to let me leave work and attend Evans Lizardos' lunch hour tech sessions, I even got a free lunch with the training. Today, my boss at Newsday still mentors me with management skills, budgeting and capital planning.

What was the most memorable project you worked on?

One of the most memorable was at Grumman, we had to design an interactive flight simulator facility for the US Navy F-14 Tomcats. I designed the HVAC and the fire protection.

How has this industry changed in your tenure?

The country shifted from an industrial to a service based economy. The design work was not only commercial, it was also heavy industrial. It included factories, process plants, mills and ship building (naval architecture). Now the design has all transferred to commercial, schools, hospitals, and malls.

Which outside influences have made the biggest change on the industry?

The country out sourcing and the economy.

History (Cont'd. from Page 13)

Which technology has made the biggest change to the industry?

Computers; not only for drafting but for building automation controls, process controls, and equipment/building communications.

Where do you see this industry going?

This industry will be going towards sustainability. We have to be independent of foreign energy and oil. We have to be more energy efficient and our building systems have to address this and be designed for sustainability.

What do you think will be a game changer with the newer technologies?

I think green technologies and LEED is shaping the industry.

Any pearls of wisdom to the current engineers out there?

Yes, to all the young engineers; get all your licenses and credentials before you get married and start a family. Also, keep learning and never stop questioning, and have fun while doing it.

Charlie Lesniak
Chapter Historian

Please remember to send in any old ASHRAE photographs, papers, articles, and speeches of people who have been through the Long Island Chapter of ASHRAE. I would like to upload this information to our chapter's website. Everything sent in will be returned.

Membership

A benefit of ASHRAE membership is discounted pricing on ASHRAE educational materials and courses. A variety of courses are available at www.ASHRAE.org/education and at www.ashrae-elearning.org.

The ASHRAE E-learning website includes interactive courses that are perfect for individuals and corporations who need to update their technical knowledge, meet PDH/CEU requirements for licensing and certification, or provide engineering staff training.

ASHRAE eLearning offers over a hundred courses in HVAC, refrigeration, high-performance green buildings, and data centers. Each allows you to train around your schedule, saving you time and travel expenses.

Also available are Self Directed Courses, which offer you access to well-designed course material without leaving your home or office. The course format allows you to review and study the material at your own pace and provides exercises that enable you to evaluate how well you are learning the material. These fundamentals courses are available in print form for all topics.

Please take the time to review these resources.

Thomas J. Fields, PE, LEED AP
Membership Chairman

Student Activities

Important Notice!!! Some students will be graduating shortly and will be changing their email addresses and may be moving from their present residences. We want to stay in touch with you so we can keep you up to date on the latest happenings in our chapter and our field. Please send us your change of address information or we might lose touch with you.

Members, this is the time for you to pick up those new graduates or those entering programs for intern or full time positions. The last Student Activities night for this year will be on May 10th and it would be wise for those looking to hire or those looking for a job to attend. Remember also ASHRAE has a link to jobs at www.ashraejobs.com for posting or hiring.

Our chapter student scholarship program is waiting for your applications to be received. If you do not have an application, email me at rosner@nassausuffolkea.com . Don't forget the deadline for applications is May 1, 2011.

If you have some young ones around the house our chapter has started a poster contest for grades 9 through 12 in high school. iTunes gift cards of \$50 and \$25 will be awarded to winners who demonstrate the ability to relate their artistic skills to our theme of "Building a Sustainable Future". For applications email me at rosner@nassausuffolkea.com . The deadline for entries is May 15th, 2011.

Please find additional information on the web at the below links:

Quick Links to Student related topics

[ASHRAE Long Island Links to various Scholarships](#)

[ASHRAE Student Zone](#)

[Senior Undergraduate Project Grants](#)

[Young Engineers in ASHRAE](#)

[2011 Student Design Competition](#)

[Careers & Internships](#)

[Student Activities Educational Resources](#)

[ASHRAE National Scholarships](#)

Richard L. Rosner, PE
Student Activities Committee Chair

Anita B. Singh, LEED AP
Assistant Student Activities Committee Chair



Donate your old Handbooks

Please bring your old handbooks to the meetings for donations to our student members who do not have complete sets at this time. Rich Rosner will be collecting them.



Young Engineers in ASHRAE (YEA)

Young Engineers in ASHRAE (YEA) Leadership Weekend 2011 took place in Denver, Colorado on April 1ST to April 3RD. Long Island chapters' YEA member, Anita Singh of Cameron Engineering along with other ASHRAE members, ages 35 & younger, attended this conference from across the country, Canada, and Saudi Arabia. Upon her return she shares her experience with our members:

"The weekend started with a tour of National Renewable Energy Lab (NREL). The NREL lab was a great opportunity to see a working net zero energy building. It was a LEED Platinum 3 story office building that was completed in the summer of 2010. The building is in an "H" pattern with two long buildings running east to west. The "H" pattern allowed for a column free workspace and the long narrow shape provided day lighting views for all occupants. Recycled pipes, used in the oil industry, were used as the building columns. Desks and offices were all open to reflective panel ceiling to bounce natural light around. Fixed louvers and light shelves allowed for increased natural lighting. The mechanical side of the building had energy recovery units to condition the ventilation air running through the under-floor air distribution system at low velocities and low pressure to reduce energy used by fans. Radiant slab ceilings were supported by high efficiency chillers and wood chip boilers. The most interesting part of the mechanical system was the desktop economizers! The personal computers alerted occupants when they can open their operable windows for natural ventilation. This idea was created to reduce the energy needed to run the ventilation equipment. Every third window was also controlled by the BMS system to open when outdoor conditions were optimal. The roofs of the buildings were all on a 10 degree pitch towards the south and covered in solar panels. Additional energy will be harvested from the future solar panels located atop the parking garages. Saturday and Sunday, there were several seminars covering career development, ASHRAE, and YEA. On Saturday night we went to the Rockies baseball game. In the career development seminar we gained valuable tools to guide us in developing our career path to becoming leaders in our fields. How to become a more active member was the focus of the ASHRAE and YEA seminars. We learned that as YEA members, we can work with the chapter's student activities chair to visit schools, and connect with students. Many great ideas were brought up during the brainstorming session on how to get YEA members more active by creating YEA events and seminars, such as fundamental review sessions, PE study groups, and having a YEA member present on a chapter student night. Also discussed were ideas on how to improve the websites to make them more technology friendly such as, making a mobile ASHRAE web site for smart phones and creating an ASHRAE Handbook App.

All in all, it was an inspirational weekend, where I was able to meet members just like me, beginning their career and excited about the future. I look forward to reconnecting with them at future conferences as well as bringing these ideas and experiences back to our Long Island Chapter so that we may all be able to grow. Feel free to say "hi" and ask me questions at the meetings." We thank Anita for taking time out of her busy schedule and representing the Long Island Chapter in this event and bringing back ideas and information that will help our society grow for years to come.

Last month our chapter's YEA (Young Engineers in ASHRAE) had a well received back to basics program given by Evans Lizardos. As a result of its success and positive feedback, we will continue to offer this program. The next one will be held 7:00-7:30PM before the main presentation in May's meeting. The topic will be "Basic Air Handling Selections" and the presenters will be Mr. David Shaw and Mr. James Hanna of the Trane Corporation. Anyone can attend. If you are a young engineer (35 years old or younger) please attend. Even if you do not fall in this category please show your support in helping our society to grow and encourage a YEA to attend.

Next month the national YEA will be holding a design workshop at the ASHRAE headquarters in Atlanta. It will be held from May 18th thru May 20th and the topic will be "HVAC Design Essential: Tools for High Performance Building Designers". The workshop will review the design of the ASHRAE's headquarters which is a LEED Platinum building. If you would like to attend please go to the ASHRAE website.

Charlie Lesniak - YEA Chairman

Long Island Chapter - Past Presidents

1958	H. Campbell, Jr. PE	1984	Raymond Combs
1959	Clyde Alston, PE	1985	Edward W. Hoffmann
1960	Sidney Walzer, PE	1986	Jerome T. Norris, PE
1961	Sidney Gayle	1987	Abe Rubenstein, PE
1962	William Kane	1988	Michael O'Rourke
1963	Louis Bloom	1989	Mel Deimel
1964	Milton Maxwell	1990	Robert Rabell
1965	Will Reichenback	1991	Gerald Berman
1966	Joseph Minton, PE	1992	Donald Stahl
1967	Irwin Miller	1993	Ronald Kilcarr
1968	Walter Gilroy	1994	Jerald Griliches
1969	Charles Henry	1995	Walter Stark
1970	William Wright	1996	Joe Marino
1971	Louis Lenz	1997	Norm Maxwell, PE
1972	Ronald Levine	1998	Alan Goerke, PE
1973	Henry Schulman	1999	Frank Morgigno
1974	Myron Goldberg	2000	Michael Gerazounis, PE, LEED AP
1975	John N. Haarhaus	2001	Ray Schmitt
1976	Richard K. Ennis	2002	Steven M. Stein, PE
1977	Kenneth A. Graff	2003	Andrew Braum, PE
1978	Evans Lizardos, PE	2004	Claudio Darras, P.E.
1979	Albert Edelstein	2005	Craig D. Marshall, P.E.
1980	Ralph Butler	2006	John Nally
1981	Robert Rose, PE	2007	Peter Gerazounis, PE, LEED AP
1982	Timothy Murphy, PE	2008	Steven Friedman, PE, HFDP, LEED AP
1983	Leon Taub, PE	2009	Steven Giammona, P.E., LEED AP

Upcoming Chapter Events - May Golf Outing



12th Annual LI ASHRAE GOLF OUTING **Monday – May 2nd, 2011**



Place: Cherry Valley Club
 Brunch: 11:00 am
 Shotgun: 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 15, 2011 (No Exceptions)

Fax, Email or Mail entire sheet or cut this half and return

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

I have read and understand the Cherry Valley Rules and Regulations (Signature): _____

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



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Fund raising is primarily through the contributions of our sponsors.
Please consider our sponsorship opportunities listed below.

Golf & Meals:	\$ 300 pp x _____	= \$ _____
Reception & Dinner:	\$ 130 pp x _____	= \$ _____
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Sponsor Lunch:	\$ 500 <input type="checkbox"/> Yes	= \$ _____
Sponsor Cocktail Hour:	\$ 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	= \$ _____
Total		= \$ _____

Upcoming Chapter Events - May Golf Outing



12th Annual LI ASHRAE GOLF OUTING ***Monday – May 2nd, 2011***

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 hors d'oeuvres 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.

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.

Upcoming Chapter Events - May Golf Outing



12th Annual LI ASHRAE GOLF OUTING ***Monday – May 2nd, 2011***

Cherry Valley Club Golf Outing Guidelines

To add the enjoyment of your day, we ask that you abide by Cherry Valley Club's basic rules of The Club, dress, golf etiquette & safety, golf carts, and care of the course.

Club Rules

1. **Smoking is not permitted in the Club House.**
2. **Cell Phones are permitted in the parking lot only. Use of Cell Phones beyond the parking lot is strictly prohibited. This includes the Golf Course.**

Dress Code

1. Jeans, designer or otherwise, are not acceptable on club property. This not only includes pants, but skirts, and cut-offs.
2. 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.
3. If the Main Dining room is going to be utilized for any purpose, jackets are required.
4. 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.
5. **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.

Golf Etiquette and Safety

1. Slow play shows lack of consideration for the players in your group and, more important, for the players behind you. Golf is made much more enjoyable if all players adhere to the following points in the conduct of play:
 - Minimize the time spent looking for balls by watching the flight of balls hit by everyone in your group. If a ball appears to be lost or out of bounds, hit a provisional ball before leaving the tee.
 - Signal the players behind you to play through if it becomes apparent that a ball will not easily be found and you are holding up play.
 - Don't rush addressing and striking the ball but move briskly between shots.
 - If your ball is some distance from the golf cart and the exact club selection is in doubt, take several clubs with you when you leave the cart to walk to the ball.
 - When play reaches the area of the green, park the golf cart(s) behind the green or adjacent to the next tee. Walk briskly off the rear or side of the green after putting out. Mark your score cards after your group is off the green.
 - Once a score of double par has been posted, pick up and move on to the next hole.
2. No player should play until the players in front are out of range.
3. If your ball appears headed for a player or group of players immediately shout "fore" in a loud clear voice.
4. No one should move, talk or stand close to or directly behind the ball or the hole when a player is addressing the ball or making a stroke.

Upcoming Events - May Golf Outing



12th Annual LI ASHRAE GOLF OUTING ***Monday – May 2nd, 2011***

Cherry Valley Club Golf Outing Guidelines (Cont'd.)

Golf Carts

1. No more than two people are to be in a cart at one time.
2. No more than 2 bags are to be carried on one golf cart.
3. Members and their guest must observe all cart directional signs and use cart paths and designated golf cart parking areas where provided.
4. Good judgment, reasonable care, and observation of club rules are expected of any member or guest when operating a golf cart. Damaged golf carts will be repaired at the responsible member's expense. Each member or guest who rents a golf cart agrees to indemnify and hold Cherry Valley Club harmless of and free from any and all damages, judgment, court costs, attorney's fees or other expenses incidental to and incurred by Cherry Valley Club which may arise from misuse of a golf cart by such member or guest.
5. Members and their Guests must keep golf carts at least 10 yards away from greens trees or traps. They should keep a reasonable distance away from soft or wet areas and they must respect directional signs.

Care of the Course

1. Before leaving a sand trap, a golfer should carefully rake and smooth over all holes and footprints made by him.
2. From tree to green, a player should ensure that any turf cut or divot displayed by him is replaced at once and pressed down, and that any damage to the putting green made by a ball is carefully repaired.
3. Golf bags should never be brought onto a green. The flagstick should be carefully handled to ensure that no damage is done to the hole or the putting green. Don't dent the green with the flagstick or by leaning on your putter.
4. In taking practice swings, players should avoid causing damage to the course by taking divots. This is particularly true on the tees and in the vicinity of the greens.
5. Only putters are to be used on the practice greens. A separate practice green adjacent the driving range is available for chipping and sand trap practice.

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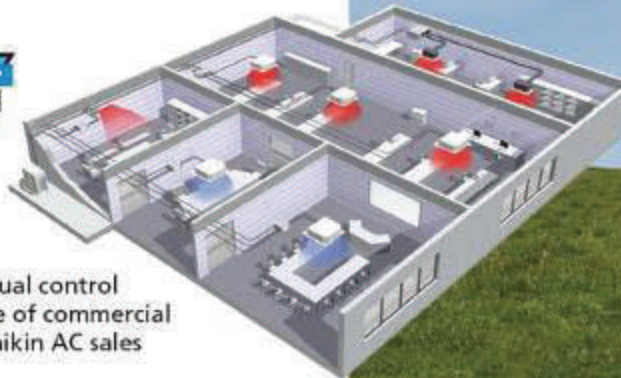
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