February 2015

THE LONG ISLAND SOUNDER

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

It's hard to believe that last year we had more snow than this year! We haven't been hearing much from the global warming people lately and it seems even the Groundhogs are undecided as what the weather will be like. As we pack our installations with insulation and cut outdoor air to a minimum and reduce fudge (I mean safety) factors to a minimum are we leaving heating designs open to failure when the unexpected weather hits? We used to be able to add on that new wing or second floor and have plenty of heat left in that existing unit to do the whole job. I am a big fan of automation but I also know you will never get people to agree on what a standard comfort zone is. All we can do is keep learning the new systems and how to tweak those old systems with new controls. I'd like to thank Paul Pack of the Fulton Boiler Company for showing us how to launch your steam boiler almost into orbit. Talk about a design problem going ballistic! Also thank you ATI for sponsoring Paul and our Cocktail hour. There was also another back to basics seminar by Evan Lizardos on Pipe designs for control of temperature and flow in water systems. That man has a lot of control schemes up his sleeves! Thanks guys, you made it a wonderful learning night.

If you haven't already reserved your seat at the game or if you have and you need a reminder, our chapter is going to the Islanders/Predators Hockey game on Thursday February 19 at 7PM, be there or be square! Please contact Andy Manos at andym22@optonline.net if you have questions.

We will all be celebrating Engineers week this month and we expect to see a bunch of you at the EJCLI seminar series day on February 12th. See the attached flyer.

You will also see a flyer for this year's Golf Outing. Don't forget it fills up very quickly and you don't want to miss it. Monday May 4th is the magic day and checks must be in by April 10th.

Our February meeting will have a lecture on "Air Distribution in Surgical Suites" by Jack Conway from Gil-Bar Industries. Also it will be a Research Promotion night as well as a Membership Promotion night and Student Activities night. A good night to bring down those perspective members and new people from the office.

As always, I wish to thank all the volunteers and board members, I appreciate all your time and dedication to our chapter and community. We look forward to seeing everyone at the February Meeting and thank you for your continued support of the Long Island Chapter of ASHRAE.

Richard L. Rosner, P.E.
President - Long Island Chapter

CHAPTER MONTHLY MEETING

DATE:	**Tuesday, February 10, 2015**
TIME:	6:00 PM - Cocktails/Dinner 6:45 PM - Dinner Presentation 8:45 PM - Conclusion
LOCATION:	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
FEES: Members - Guest - Student -	 $40.00 $45.00 $15.00

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

Long Island Chapter Officers & Committees

ASHRAE 2014/2015 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	**Richard Rosner, P.E.**	631.737.9170	631.737.9171	president@ashraeli.org
President-Elect	**Thomas Fields, P.E., LEED AP**	212.643.9055	212.643.0503	president_elect@ashraeli.org
Vice President	**Charles Lesniak, P.E**	516.484.1020	516.484.0926	vice_president@ashraeli.org
Financial Secretary	**Don Kane, P.E.**	631.737.9170	631.737.9171	finsec@ashraeli.org
Treasurer	**Andrew B. Dubel, P.E.**	212.967.7651	212.967.7654	treasurer@ashraeli.org
Secretary	**Richard Halley**	718.269.3809	718.269.3725	secretary@ashraeli.org
Board of Governors	**Lee Feigenbaum, LEED AP BD+C**	212.243.2555	212.924.7148	bog1@ashraeli.org
Board of Governors	**Frank Paradiso**	631.632.2791	631.632.1473	bog2@ashraeli.org
Board of Governors	**Ken Mueller**	201.395.3761	763.231.6924	bog3@ashraeli.org
Board of Governors	**Andrew Manos, LEED AP**	631.632.2791	631.632.1473	bog4@ashraeli.org

ASHRAE 2014/2015 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	**Thomas Fields, P.E., LEED AP**	212.643.9055	212.643.0503	programs@ashraeli.org
Membership	**Lee Feigenbaum, LEED AP BD+C**	212.243.2555	212.924.7148	membership@ashraeli.org
Chapter Technology Transfer (CTTC)	**Don Kane, P.E.**	631.737.9170	631.737.9171	cttc@ashraeli.org
Grassroots Government Activities Committee	**Charles Lesniak, P.E**	516.484.1020	516.484.0926	ggac@ashraeli.org
Newsletter Editor	**Liset Cordero**	212.643.9055	212.643.0503	editor@ashraeli.org
Research Promotion	**Andrew Manos, LEED AP**	631.632.2791	631.632.1473	rp@ashraeli.org
Historian	**Andrew B. Dubel, P.E.**	212.967.7651	212.967.7654	historian@ashraeli.org
Student Activities	**Richard Halley**	718.269.3809	718.269.3725	sa@ashraeli.org
Young Engineers in Training	**Frank Paradiso**	631.632.2791	631.632.1473	yea@ashraeli.org
Webmaster	**Richard Rosner, P.E.**	631.737.9170	631.737.9171	web@ashraeli.org
Nominating	**Michael Gerazounis, P.E., LEED AP**	212.643.9055	212.643.0503	nominating@ashraeli.org
Reception & Attendance	**James Hanna** **Ken Mueller**	718.269.3768 201.395.3761	718.269.3794 763.231.6924	reception@ashraeli.org
PR & Engineering Joint Council of LI	**Andrew Manos, LEED AP**	631.632.2791	631.632.1473	pr@ashraeli.org
2014 CRC Committee	**Richard Halley**	718.269.3809	718.269.3725	CRC@ashraeli.org
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	golf@ashraeli.org
ASHRAE LI, P.O. Box 79, Commack, NY 11725				

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BOG Meeting Minutes

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

BOG Meeting, Long Island Chapter
Tuesday January 13th, 2015
5:00 – 6:00
Westbury Manor, Westbury, NY

Call to Order At 5:15 by Chapter President Rich Rosner
First roll call showed 7 Members - Rich Rosner, Don Kane, Rich Halley, Andy Manos, Frank Paradiso, Andrew Dubel and Brian Simkins

Secretary (Rich Halley)
June 2014 Minutes Still Pending
December Minutes reviewed with no changes
Motion to Approve - Andy Manos, Second – Don Kane

President (Richard Rosner)

Rich reported that he has met PAOE PAR with 1230. Rich continued to encourage Board Members to keep PAOE points up to date.
Steve Sills from Region 1 will be in attendance at tonight's meeting. Rich also stressed the importance of getting articles in early.
Please push the Islanders Night (February 19th) we need tickets to be committed by January 21st. Andy Manos will be coordinating the ticket purchases.
Rich asked committee chairs to update their *Sounder* "blurbs" where necessary.

President-Elect/Programs (Thomas Fields)
Tom Reported the Joint meeting with SMACNA was a big success
Working on the last open spots for this year

Chapter Technology Transfer/Financial Secretary **(Don Kane)**
Don Reported PAOE Points are at 670, Don is following up on the April field trip and would appreciate any refrigeration ideas. Andy Manos will be coordinating the ASHRAE webcast, to be hosted at SUSB, April 23, 2015 1:00-4:00pm EDT. "New Tomorrows for Today's Buildings: Existing Building Commissioning." Andy is also coordinating Chapter participation in the EJCLI Engineer Week Day of Seminars. Don Kane will bring ASHRAE literature to the EJCLI event for display.
We received payment for a new *Sounder* ad. Invoices for existing and past due ads will be sent out after the IRS filing is complete.

Treasurer (Andrew Dubel)
Andrew Reported opening Balance of $9,528.61. The CRC savings account has been established and has a balance of $2,500.00
The Tax return is almost complete and will be out in Two Weeks.

Grassroots Government Activities (Charles Lesniak)
Charley reported that PAOE are at 425 Points and has more to go.
Charley has arranged for Huntington Town Councilman Mark Cuthbertson to award ASHRAE LI a proclamation acknowledging National Engineering Week. We need to schedule when we want the presentation to take place.

Historian (Andrew Dubel)
Andrew reported most of the digitizing is complete and we are now working finish up the old and working on current year. Still working on the interview with Carl Graber's Family.

Honors and Awards Chair (Brian Simkins)
Progress, we submitted a candidate for the Campbell Award, Brian is working on Past President awards.

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BOG Meeting Minutes (Cont'd. from Page 3)

Research Promotion (Andy Manos)
Andy Reported PAOE points at 795. We are currently at $6,450, vendor book is almost done.

Membership Promotion (Lee Feigenbaum)
We are currently at 311 Members with 32 Student Members. Lee is reviewing delinquent renewal list.

Student Activities (Richard Halley)
Rich Reported the PAOE points at 245.
Students are currently on holiday break and will be returning end of January. We are expecting another 6 applications tonight. Rich is in the process of putting together a list of all student members so that we can get them on our mailing list to keep them informed on all chapter activities. Rich Rosner has a new Student Member attending tonight.

YEA (Frank Paradiso)
Frank Reported that the YEA Leadership Conference will be held March 27th and 29th. Motion made by Andy Manos and 2nd by Rich Halley to approve $600 in fees to send Frank to the Conference.

Web Master (Richard Rosner)
Rich Requested that all committee chairman review the yearly articles and update as necessary.

CRC 2017 (Richard Halley)
Saving Account has been set up. We are in the process of identifying possible locations for the conference.

Golf (Steven Friedman, Peter Gerazounis)
May 4th, 2015 Cherry Valley, Flyers going out soon.

Old Business

EK Campbell Award's sent out before deadline of 12-14-14.

New Business
- Look into chapter dues not being paid by some chapter members
- Going to List Links to formula and/or apps for phones in next newsletters, send in what you have
- Newsletter articles due two weeks before next meeting or after last meeting
- New student member Robert Tschoke is building for Habitat for Humanity as we speak in Costa Rica and will be giving us a report.

Second Role Call
Second roll call showed 10 Members - Rich Rosner, Don Kane, Rich Halley, Andy Manos, Frank Paradiso, Andrew Dubel, Brian Simkins, Charles Lesniak, Thomas Fields and Lee Feigenbaum

Motion to adjourn At 6:09 by Charles Lesniak 2nd by Andrew Dubel

Time/Place of next BOG Meeting – February 10th, 2015. Westbury Manor

Chapter Monthly Meeting - Program for 2014/2015

September 9, 2014 * At Westbury Manor Dinner Presentation – New Advances in High Efficiency Cooling for Data Centers ****1 PDH**** Presenter - Dave Smith **Membership Promotion Night**	**February 2015** **NATIONAL ENGINEERS WEEK** **Engineers Seminar Series** **February 12, 2015**
October 14, 2014 * *At Westbury Manor* Dinner Presentation – Variable Frequency Drives and Motor Considerations ****1 PDH**** Presenter - Gail O'Keefe ***Back to Basic Session I - Evans Lizardos*** *****1 PDH***** ***"Smoke Purge System Design"***	**March 10, 2015** * *At Westbury Manor* Dinner Presentation – Plate/Frames ****1 PDH**** Presenter - Chris Abbot **Joint meeting with LI-Geo / YEA Night**
November 11, 2014 * *At Westbury Manor* Dinner Presentation – HVAC Air Distribution System Efficiency ****1 PDH**** Presenter - Eli Howard **Resource Promotion Night** **Joint meeting with SMACNA** **Student Activities Night & YEA Night as well as Membership Promotion and Upgrade Night**	**April 14, 2015** **ANNUAL FIELD TRIP - TBD**
December 9, 2014 * *At Westbury Manor* **HOLIDAY PARTY** Free Buffet Dinner for Members	**May 4, 2015** * *Cherry Valley Club, Garden City, NY* **ANNUAL GOLF OUTING**
January 13, 2015 * *At Westbury Manor* Dinner Presentation – "The Steam Kettle" The Generation and Control of Steam for Space Heat and Process ****1 PDH**** Presenter - Paul Peck ***Back to Basic Session II - Evans Lizardos*** *****1 PDH***** **"Pipe Designs for Control of Temperature and Flow in Water Systems"**	**May 12, 2015** * *At Westbury Manor* Dinner Presentation – Responsible Use of Refrigerants ****1 PDH**** Presenter - Julian de Bullet **ASHRAE DISTINGUISHED LECTURER** ***Back to Basic Session III – Evans Lizardos*** *****1 PDH***** **"Energy Requirements for Different Refrigerant Systems"** **Student Activities Night / Refrigeration Night**
January 24-28, 2015 ASHRAE Winter Meeting Palmer House Hilton Chicago, IL	**June 9, 2015** * *At Westbury Manor* **Free Buffet Dinner for Members** **PAST PRESIDENTS NIGHT & OFFICER INSTALLATION** **STUDENT SCHOLARSHIPS TO BE AWARDED** **ASHRAE History Quiz and prize Give-A-Ways**
February 10, 2015 * *At Westbury Manor* Dinner Presentation – Air Distribution and Surgical Suites ****1 PDH**** Presenter - Jack Conway **Joint Meeting with USGBC** **Research Promotion Night / Membership Promotion Night /**	**August 2015** **Chapter Regional Conference (CRC) Region I** **Syracuse Chapter Hosting** **August 20-22, 2015**

Long Island Chapter - Past Presidents

1958	H. Campbell, Jr. PE	1986	Jerome T. Norris, PE
1959	Clyde Alston, PE	1987	Abe Rubenstein, PE
1960	Sidney Walzer, PE	1988	Michael O'Rouke
1961	Sidney Gayle	1989	Mel Deimel
1962	William Kane	1990	Robert Rabell
1963	Louis Bloom	1991	Gerald Berman
1964	Milton Maxwell	1992	Donald Stahl
1965	Will Reichenback	1993	Ronald Kilcarr
1966	Joseph Minton, PE	1994	Jerald Griliches
1967	Irwin Miller	1995	Walter Stark
1968	Walter Gilroy	1996	Joe Marino
1969	Charles Henry	1997	Norm Maxwell, PE
1970	William Wright	1998	Alan Goerke, PE
1971	Louis Lenz	1999	Frank Morgigno
1972	Ronald Levine	2000	Michael Gerazounis, PE, LEED AP
1973	Henry Schulman	2001	Ray Schmitt
1974	Myron Goldberg	2002	Steven M. Stein, PE
1975	John N. Haarhaus	2003	Andrew Braum, PE
1976	Richard K. Ennis	2004	Claudio Darras, P.E.
1977	Kenneth A. Graff	2005	Craig D. Marshall, P.E.
1978	Evans Lizardos, PE, LEED AP	2006	John Nally
1979	Albert Edelstein	2007	Peter Gerazounis, PE, LEED AP
1980	Ralph Butler	2008	Steven Friedman, PE, HFDP, LEED AP
1981	Robert Rose, PE	2009	Steven Giammona, P.E., LEED AP
1982	Timothy Murphy, PE	2010	Nancy Román
1983	Leon Taub, PE	2011	Carolyn Arote
1984	Raymond Combs	2012	Brian Simkins, LEED AP
1985	Edward W. Hoffmann	2013	Andrew Manos, LEED AP BD+C

ASHRAE Long Island Chapter

PAOE POINTS FOR 2014/2015

350Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	GGAC	Chapter PAOE Totals
282	425	295	795	175	1,230	795	425	4,140

February Program

Dinner Presentation

"Air Distribution in Surgical Suites"

Presented by

Jack Conway
Gil-Bar Industries

Attendees Will Earn 1 PDH!

DATE:	**TUESDAY, FEBRUARY 10, 2015**		
Time:	6:00 PM - Cocktails and Hors D'ouevres 6:45 PM - Dinner Presentations 8:45 PM - Conclusion	**Fee:**	$ 40.00 Member $ 45.00 Guest $ 15.00 Student
Location:	**WESTBURY MANOR** (516) 333-7117 Jericho Tpke (South Side), 3/10 of mile east from Glen Cove Rd., Nassau County, NY. **Directions are posted at @ www.ashraeli.org.**		
Presentation:	This month's presentation focuses on the following: • Understanding the driving forces for Hospitals to improve hospital acquired infection (HAI) control overall, with a specific focus on surgical site infections (SSIs). • Understanding the importance of airflow patterns and their effect particle migration using Computational Fluid Dynamics (CFD) models of various laminar flow systems. • Understanding best practices from other industries requiring "clean" spaces, and how implementing these practices can positively affect airflow patterns and particle migration in an operating room setting. • Understanding best practices from other industries in terms of modular design and installation that can be applied to an operating room setting. **All attendees will receive 1 PDH.**		
About our Speaker:	**Jack Conway** graduated from SUNY Maritime College in 2005 and received a Bachelor of Engineering - Marine Mechanical degree. After graduation, he sailed with APL Maritime as a 3rd Assistant Engineer. After Jack's second tour with APL he began working as an Engineering Operations manager at NYU Medical Center. Jack then moved into a construction role as an Infrastructure Construction Project Manager within NYU Medical Center's Facilities Management Department. Jack now works for Gil-Bar Industries for whom he was hired to create and develop their health care division. Gil-Bar is a manufacturer's representative and has a line of operating room air distribution systems, as well as an extensive line of clean room products including anti-microbial air handling units which satisfy many stringent hospital applications. My objective is to assist facilities managers in the development and implementation of expeditious operating room renovations.		

Student Activities

We had a strong turnout of Long Island Students who escaped the blizzard and attended the 2015 AHR EXPO in Chicago and participated in many special Student Programs. You can get more information on the EXPO activities by visiting the ASHRAE Student Zone at https://www.ashrae.org/ membership conferences/student-zone

Our next Student Activities night is scheduled for the May Long Island Chapter Meeting. We are expecting another big turnout from both our Stony Brook and Suffolk Community College Chapters.

In preparation to send out flyers we are looking for Business Owners and Engineering firms who are looking to hire entry level Engineers and College Interns for the summer. If you have such a need please email me at rchalley@trane.com.

During the next few weeks we will start distributing the Annual Long Island Chapter Scholarship applications and will present the awards during our June meeting. If you know a Student who could benefit from the scholarship please send their information to me and I will make sure they are on our distribution list.

As always I want to thank you for your support and if you have any slightly used ASHRAE Hand Books that could be redistributed to our Students please bring them in the February meeting.

Richard Halley
Student Activities Committee Chair

Membership

'Tis the season of New Year Resolutions! Do you still remember the commitments you made to yourself this year? According to www.usa.gov, popular New Year resolutions include:

- Volunteer
- Get a Better Education
- Get a Better Job
- Drink Less Alcohol

If any of these sound familiar, then membership in your Long Island Chapter is perfectly suited to help you meet your goals. There are always opportunities to volunteer through numerous committees, research opportunities, fundraising, etc… the opportunities to volunteer in this great organization are limitless!

If continuing education is your goal, then you should know that your Long Island chapter offers Continuing Education credits every month. Discounted rates for our members offers tremendous value and convenience for our friends who are maintaining P.E. or LEED AP + credentials.

ASHRAE Membership and participation is a natural fit for anyone looking to advance their career. The networking opportunities with fellow HVAC professionals from diverse backgrounds are critical for both seasoned professionals and new members transitioning from student to professional memberships.

If drinking less alcohol is your goal…well…three out of four ain't bad!

We'd like to take this opportunity to thank our new members who have considered the many benefits of membership, and who have decided to join our community. Your Long Island chapter continues to grow through the addition of 4 new members in the past month! Our new members continue to offer a varied skill set that makes them valuable additions to our community. Welcome!

Don't forget to visit our website at www.ashraeli.org for a complete schedule of meetings and events. It's easy to sign up as a new member by visiting the membership section.

Lee Feigenbaum, LEED AP BD+C
Membership Chairman

Research Promotion

I would like to thank all the companies who have participated in the annual 2015 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 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 $2,208,050 with over 75 research projects on board. Our chapter is expected to raise approximately $15,300 towards the overall goal of which we have already raised $7,200. 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, PE
Mr Andrew E Manos, LEED AP
Mr Charles J. Lesniak, PE
Mr Donald Kane, PE
Mr Frank Morgigno
Mr Frank Paradiso
Mr James Tauby
Mr John D Nally
Mr Kenneth T Mueller
Mr Lee Feigenbaum
Mr Marcel A Bally
Mr Michael Gerazounis, PE, LEED AP
Mr Richard I Halley
Mr Richard Pearson, PE, LEED AP
Mr Richard L Rosner, PE
Mr. Ricky Gaska
Mr Ronald J Kilcarr, PE
Mr Thomas Fields, PE, LEED AP

COMPANIES

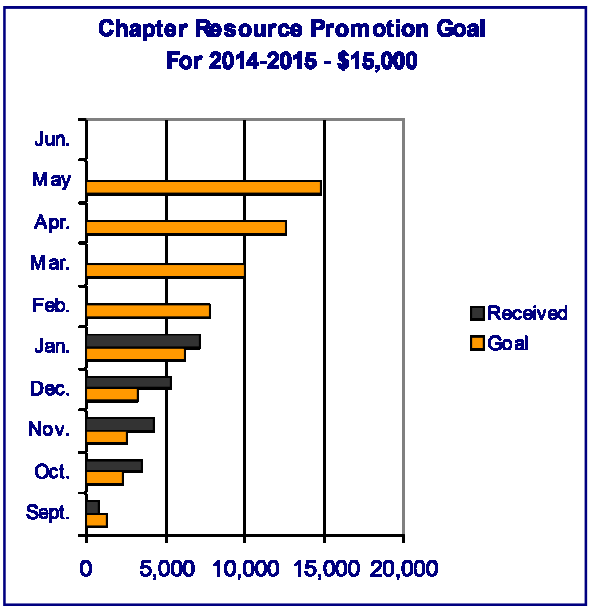
Accuspec Inc.
Building Cooling Systems
Carrier
Catan Equipment Sales
Daikin
Dagher Engineering
Gil-bar Industries
Mason East
Metro Air Products
Mitsubishi
PVI / Riverside Hydronics
Technical Air Systems, Inc.
Vitaulic

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
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 you accredit your contribution to the LONG ISLAND CHAPTER 006 ****



Thank you again for all of your support!

Andrew Manos, LEED AP BD+C
Research Promotion Chair

CTTC - Technology and HVAC - What's Hot/What's Not

We generally refer to the assemblage of equipment used to provide comfort conditioning of living or workspaces as "mechanical systems." Clearly, today an important part of these mechanical systems are the various electronic devices - be they sensing or controlling in function - sometimes dedicated components of the HVAC system, sometimes part of a larger control scheme, which provide for unprecedented levels of automation and system "fine tuning." Of course, these same technological wonders which can provide the means to achieve a system design which is efficient, reliable and able to maintain the comfort levels of the conditioned spaces successfully (for even more than the 80% of the occupants that handbooks and standards would have us shoot for) can also line the slippery slope to failure. Technology is not the solution or problem, rather, application of the technology, fully understanding the intended uses and constraints is the key.

We are living today in the "digital" world. Soon there will be generations who will not have learned to tell time with an "analog" clock; to whom the terms "quarter past," "ten to" or "half past" have absolutely no meaning. It is only natural that digital electronics has become pervasive in all facets of our life, a technological hammer - so to speak - in search of nails. Sometimes the application of this technology is beneficial, as attested to by the proliferation of control systems and test & Diagnostic equipment available today to simplify our lives designing, maintaining and operating HVAC systems. How nice it is to only have to carry a lap-top or smart-phone to a facility, communicate with the HVAC system and determine its state of well-being...that is if the lap-top doesn't crash, the smart-phone doesn't fall into the groundwater recharge well and...the system controller is fully (or at least partially) functioning. All electronic devices will, ultimately, fail, if not in the "infant mortality" phase, then at the "end of life" phase. The duration between those two points is a function of the selection of components, production methods and amount of redundancy built in to the design. The vehicles we drive are a good example of technology application. The highly computerized approach to automotive design today (where actuating a switch merely indicates the operators desire for the controlled device to change state...the actual control being handled by "the computer") incorporates so called limp-home features, so as not to leave you stranded if part of the computerized, networked and "intelligent" system decides to head south. When vehicles bearing the Pentastar emblem first incorporated electronic ignition, this was not the case. Instead of "limp-home" circuitry, one had to use the walk-home approach. When the components failed, you were dead -in-the-water!

The good news, the HVAC industry seems to have learned a lot from Detroit's early foray into electronics and the systems incorporating modern controllers and networking capability generally (except maybe for lightning protection of electronics, in or connected to roof mounted equipment) have embraced the need to maintain control and operational integrity in the event of component failure. As the number and complexity of Building Automation Systems increases, along with the demand for even more communication/access capability, the exposure to unauthorized access and malevolent activity increases. It is a real concern, one that is not just one of comfort but also safety, for example if an unauthorized access caused the smoke control system to malfunction in the event of a fire emergency. The security issue may turn out to be the biggest hurdle to overcome in the next few years as we are gobbled up by the Internet-of-Things which promises to raise the levels of connectivity and communication to new heights. The same technology which allows your smart-home to know when you have left and where you have gone and which allows your office HVAC to be up and running by the time you reach your desk (having interrogated your ID badge entering the building and noting that you have accessed the elevator to your office floor) could very well provide that same information to the miscreant anxious to pilfer all the goodies in your home...which he or she inventoried, using all the web-enabled cameras you installed so you could check up on the house while you were gone.

Again, there is nothing inherently wrong with the implementing of technology, as long as it is done properly. The key question one has to ask and answer is if the expenditure for the technology and the appropriate safeguards to keep it secure is justified by the anticipated benefit. Certainly, in the commercial sector it is easier to justify the additional security costs and preventative measures. Such a justification may be more difficult on the scale of a home installation. Some of the really neat phone Apps which control your home's systems (including security), if not properly configured and protected will be the modern day equivalent of putting a front door key under the Welcome mat.

Some may even question why there is a sudden need for people to go out and buy Intelligent Thermostats, for example. Why take a perfectly reliable device (the 54 year old T87 controlling my heater still works) and replace it with electronics which increases the parts count, more things to go wrong...just begging for the intelligent thermostat equivalent of the Blue Screen of Death that computer users have come to love. If the setting of your thermostat in your home is being changed frequently enough that you need to have one that can "learn" the pattern, there is a good chance that thermostat is being misused. With the announcement of thermostats which will track your whereabouts via your cell phone, the thermostat is being elevated from a sensor input to a system control device. While industrial applications of distributed

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CTTC - Technology and HVAC - What's Hot/What's Not (Cont'd. from Page 10)

control have been successful and beneficial, these are integrated fully engineered systems. Most home applications do not have this level of integration. One of the many press releases from the AHR Expo (unable to attend it in Chicago this year, I had to experience it vicariously through press releases, on-line video snippets and product web-sites) concerned a wireless "system" using battery operated vents, controlled by wireless sensors monitoring room temperature, a wireless controller and a (what else) smart phone as the human machine interface (HMI). There was no mention of a variable speed blower, so it was not clear how system airflow was going to be adjusted when, for example, a multitude of these vents close? It was also not clear what the vents would do when the batteries died...go full open? full closed? remain in last position? Seems like there may be a little more homework to be done, but, it's wireless, digital and uses a smart phone...so it has three of the most important features for commercial success.

There are, of course, many applications of technology which are beneficial and well thought out. Sensor technology in concert with networking schemes (both wired and wireless) provide the system designer with the ability to keep a finger on the pulse of the HVAC system. Supervisory Control and Data Acquisition (SCADA) system functionality today permits the monitoring of many points and, more importantly, can display the information in animated displays mimicking the actual system and providing an easy way for an operator to assimilate a lot of data quickly, with out-of-nominal values alarming visually and/or audibly, so they do not get buried in the "normal" readings. Intelligent valves which monitor energy transfer and maintain design ΔT values improve system operating efficiencies and the availability of devices which adhere to industry standards (e.g. BACNET, LonTalk etc.) facilitate interoperability between equipment supplied by different suppliers.

In addition to many sensors, utilizing wireless technology, which can be networked in a Data Acquisition system for forensic purposes or to verify system performance, a plethora of small, self contained, dedicated purpose data acquisition instruments are now available, at reasonable cost, with sufficient accuracy and storage to record over 300,000 measurements. These devices can be placed almost anywhere one needs to record temperature, humidity, power factor, voltage, current, occupancy...almost any quantity one needs to monitor. When the sampling is complete, the devices can be recovered and the data downloaded. If extended operation is needed, a wireless network can be established with automatic or manual downloading of recorded data. This type of instrumentation can be useful in establishing a baseline, before a major change or to verify performance, after the completion of an upgrade.

The maintenance of equipment hasn't been neglected by technology. Some of the same wireless sensor technology is available to the mechanic/technician, allowing the installation of sensors within equipment to be tested and maintaining the integrity of the equipment enclosure, not requiring any cables to be routed in or out of the device under test. Temperatures and pressures can be measured during operation with the unit under test fully "buttoned up."

Even the manifold-gauge set has moved into the electronic age, with at least one supplier providing both digital readout and mechanical gauges. There are times when one needs to see a "trend" in pressure that can be more easily seen on a mechanical gauge.

We have seen a lot of technology implemented in the HVAC arena, but I personally think that one development that will turn out to have multiple applications is the availability of low cost, high quality infrared imaging equipment. There are several smart phone attachments in the $200-$250 range that offer an IR thermal image superimposed on a visual image. A standalone IR imager in the $700 range has been announced and the preliminary images provided appear to be of excellent quality. Whether checking for insulation leaks, leaking steam pipes, overloaded motors, bearings, electrical contacts or taking pictures of oneself to accompany a newsletter column, infrared imaging can be a powerful tool, and will soon be available to a wider audience, now that the costs have come down.

It goes without saying...but I will anyway.that the best test instruments (electronic/mechanical/analog/digital) are only as good as their last calibration. If you are making measurements that have to be accurate, ensure that you have a calibration protocol in place to check and track the calibration of the instruments used.

One last observation, although not a real technology item (yet)...I see that a manufacturer of mini-splits is supplying an inside unit that incorporates provision for mounting artwork or a photo to the front surface. Instead of trying to hide the inside unit, it becomes a point of interest. I am wondering how long it will be before the artwork is replaced by a flat screen display for entertainment or email or, as an HMI for the control of the mini-split system.

Technologically yours,

Don Kane, P.E.
CTTC Chair - cttc@ashraeli.org

Young Engineers in ASHRAE (YEA)

The Long Island chapter meeting on February 10th, 2015. This meeting will be a great way to learn about what being a member of your local chapter of ASHRAE has to offer.

Keep up to date with some upcoming YEA pograms and events as follows:

Presented by the ASHRAE Learning Institute, the HVAC Design Essentials Training allows attendees to gain the fundamentals and technical aspects to design, install and maintain HVAC systems.
To encourage attendance by young professional ASHRAE members, the YEA Institute offers one full scholarship for attendance to the HVAC Design: Level I – Essentials training. The full cost of registration to Level I of this workshop will be covered by ASHRAE.

May 18-20, 2015 in Chicago, IL (deadline for applications is Monday, March 23, 2015)
June 15-17, 2015 in Atlanta, GA (deadline for applications is Monday, April 20, 2015)
October 5-7, 2015 in Atlanta, GA (deadline for application is Monday, August 10, 2015)

We will be have an ASHRAE Long Island YEA Night at

Dave and Busters
Islandia Shopping Center
1856 Veterans' Memorial Highway
Islandia, NY 11749

on Tuesday February 24th, 2015 @ 6PM.

Everyone is welcome to attend and get to know some local chapter members in a casual environment.

We will be looking for more ideas for social events so please contact me if you have suggestions. One such idea is a spring get together at a German Beer Hall in Franklin Square NY. Be sure to connect with Young Engineers in ASHRAE.

Frank Paradiso
YEA Chairman

History

Many historical articles and information can be found at the ASHRAE website at ashrae.org under the "about ASHRAE" and history tabs. Topics range from the recent rebranding of ASHRAE, the first century of air conditioning, to joining the American Society of Heating and Ventilating Engineers (ASHVE) and the American Society of Refrigerating Engineers (ASRE) joined to create the modern ASHRAE. Try these below:

Read about how the organizations above came to be the modern ASHRAE here:
https://www.ashrae.org/File%20Library/docLib/Public/2003627113635_326.pdf

Fine out about the recent rebranding here:
https://www.ashrae.org/resources--publications/ashrae-announces-rebranding

Looking for an article from the ASHRAE Journal? Try here:

https://www.ashrae.org/resources--publications/periodicals/ashrae-journal/ashrae-journal-members-only-redirect

Andrew B. Dubel, PE
History Chairman

January Meeting Pictures

January Meeting Pictures

Engineers Week Seminar Series

Engineers Joint Committee of Long Island

Anthony Cacioppo, P.E., Co-Chair
Paul Lanzillotta, P.E., Co-Chair

ENGINEERS WEEK SEMINAR SERIES

Thursday, February 12, 2015

Place: ***Holiday Inn Plainview - 215 Sunnyside Boulevard, Plainview, NY 11803***
516-349-7400 (Front Desk)

Program:	**8:00 am – 9:00 am**	**Registration & Continental Breakfast**
	9:00 am – 10:00 am	**Morning Seminars**
	10:00 am – 10:15 am	**Break**
	10:15 am – 12:15 pm	**Morning Seminars Cont'd.**
	12:15 pm – 1:15 pm	**Lunch**
	1:15 pm – 2:15 pm	**Afternoon Seminars**
	2:15 pm – 2:30 pm	**Break**
	2:30 pm – 4:30 pm	**Afternoon Seminars Cont'd.**

Seminars & Descriptions

"Security & Privacy of the Internet of Things" **(1 PDH) 9:00 am – 10:00 am**
Presented by: **Nazrul Islam, Associate Professor, Farmingdale State College**

The Internet of Things (IoT) can enhance the internet performance by ensuring reliable connection, remote control capability and extended data sharing. Security and privacy of communication as well as data are the great challenges for the researchers and developers. This presentation will discuss the vulnerability issues in IoT and propose security techniques to make the future IoT a reliable, secure and efficient system.

"Helical Piers and Anchors in Soil" **(2 PDH) 10:15 am – 12:15 pm**
Presented by: Pat Haffert, Seminar and Training Manager
DANBRO Distributors - Chance™ Helical Piles

The Seminar is an overview on all aspects of the helical pile industry. It takes you from the basic components to the engineering equations and design. Topics include helical pile history, components and terminology, general engineering, tieback anchors, installation, lateral loading and corrosion. The goal is to improve the understanding of the helical pile world and assist professionals in viewing them as a strong deep foundation system. Using many case histories and pictorial examples, we can demonstrate the industries future in feasibility, engineering design and overall advantages.

Engineers Week Seminar Series

"Estimating the Effects of Energy Codes on Indoor Air Quality" (1 PDH) **1:15 pm – 2:15 pm**
Presented by: Todd R. Crawford, Research Scientist
NYSDOH Bureau of Toxic Substance Assessment

This seminar will discuss the energy efficiency requirements in the 2010 Codes of NYS, and will present some general calculations to estimate energy use and changes in indoor air quality. The major energy conservation requirements in the 2010 Codes of NYS are to improve insulation and minimize air leakage. However, these two requirements have significant effects on temperature and relative humidity. We will estimate the energy efficiency effects of some requirements of 2010 NY Energy Conservation Construction Code, and from that data we will discuss the effects on indoor air quality for some typical building systems. By understanding and estimating the changes that may occur when energy efficiency changes are made, the design professional can anticipate and respond to consumer concerns and complaints processes about indoor air quality.

"Flexible Fire Sprinkler Hoses" **{2PDH} 2:30 pm – 4:30 pm**
Presented by: Eric McWhirter, Product Engineer, Victaulic Company

This course will present the history of flexible drop technology and the various designs of flexible hoses, explaining the important differences in how they perform. Attendees will learn to recognize and inspect properly installed flexible hoses, comprehend their hydraulic performance, and learn why flexible hoses are an important component in fire safety.

"Inspecting & Assessing Indoor Air Quality and Mold" **(1 PDH) 9:00 am – 10:00 am**
Presented by: **Todd R. Crawford, Research Scientist**
NYSDOH Bureau of Toxic Substance Assessment

Factors affecting indoor environmental quality and principles of indoor environmental investigations are presented in terms of "4 Ps"; Pollutant, Pathway, Pressure, People. There is a discussion of inspection procedures that are classified as 'Routine', 'Spot', and 'Complaint'. Complaints of Indoor environmental conditions may be assessed by severity in terms of 'Hazard', 'Functionality', 'Comfort Conditions', and 'Procedures. Effective response procedures are described. Complaint investigation strategies are based on using four senses: vision, odor, touch, and hearing. The use of sampling and analysis is presented and discussed. Inspection checklists required for schools by NYSED or used in EPA Tools for Schools are presented briefly. A couple of principles of indoor air dynamics that affect moisture accumulation on building materials are summarized. A learning assessment of the principles of moisture accumulation is presented in two exercises. References and Resources are presented and time is allotted for Questions and Answers.

"Design and Sustainable development for Hot-Dip Galvanizing" **(2 PDH)**
10:15 am – 12:15 pm
Presented by: Frank Gerace, Hubbell Galvanizing

The purpose of this seminar is to educate engineers about successful specification, design, inspection, and coating (paint/powder) of hot-dip galvanized steel; Topics include: How to conduct proper inspections and testing methods for hot-dip galvanized steel; Identify environmental costs (primary energy demand, global warming potential, etc.) for hot-dip galvanized steel from production through end-of-life; Decipher the environmental differences between painted steel and galvanized steel; and Incorporate life-cycle cost analysis into the evaluation of steel corrosion protection methods.

Engineers Week Seminar Series

"Utilizing Rainwater Reuse and Stormwater Control to Improve Water Efficiency" **(1 PDH)**
1:15 pm – 2:15 pm
Presented by: Richard Gerbe, Co-Founder of HIGHMARK New York

The discussion will examine the environmental impact mechanical systems have on buildings and review the industries response; specifically LEED v4 and ASHRAE/USGBC/ASPE/AWWA Standard 191P. Additionally, a number of re-purposing and conservation strategies will be introduced. The re-purposing of storm water, rainwater, or gray water for usage within a building creates a synergy between water use and water conservation resulting in reduced fresh water usage in our mechanical systems and less impact on municipal sewer systems.

"Grounding & Lightning Protection" **(2 PDH) 2:30 am – 4:30 pm**
Presented by: Richard L. Rosner, P.E., Director of Engineering
Donald W. Kane, P.E. Sr. Electrical Engineer
Nassau Suffolk Engineering & Architecture, PLLC

This presentation will introduce the theory, methods and materials essential to provide effective grounding and equipotential bonding of electrical equipment to minimize touch and step potentials, and achieve compliance with the latest (2014) National Electrical Code requirement. Basic concepts of lightning protection will be discussed as they relate to grounding and bonding.

"Vacuum Waste Disposal Systems" **(1 PDH) 9:00 am – 10:00 am**
Presented by: Ron Mims, AcornVac, Inc.

Vacuum Waste systems as a viable option to traditional gravity waste. This presentation will discuss the many benefits vacuum waste systems have to offer in lieu of gravity waste. Vacuum waste offers tremendous water/waste water savings and offers almost unlimited design options for both new construction and retrofit applications.

"Pump Design, Hydraulics" **(2 PDH) 10:15 pm – 12:15 pm**
Presented by: Mark Koester, President, Koester Associates, Inc.

This presentation will provide a review of basic hydraulic principles including how to read a pump curve and the mechanics of pump design and operation. In addition, the general overall design methodology of pump station design will be discussed. At the conclusion, the audience will have a better understanding of how to select an appropriately sized pump and the required information to achieve a well designed pump system.

"MOVES: Project Level Traffic and Air Quality Analyses" **(1 PDH) 1:15pm – 2:15pm**
Presented by: Einah Reza Pelaez, P.E., Transportation Engineer, HDR Engineering
Mallory Goff, EIT, Environmental Engineer, HDR Engineering

The session will present a collaborative process developed by the NYCDEP, NYCDOT and the project consultants for calculating emission factors using the Motor Vehicle Emissions Simulator (MOVES) software as mandated by the EPA for project level air quality analyses. The process includes the use of new information sources, traffic analysis tools, sensitivity tests to identify key issues and challenges, and refinements to increase the accuracy of the analysis and calculation of emissions factors. The intent was to streamline the process and guide city agencies and consultants responsible for conducting air quality analyses for discretionary actions subject to environmental review under CEQR, SEQRA, and NEPA processes.

Engineers Week Seminar Series

"AC & DC Critical Power Supply Monitoring Systems" **(2 PDH) 2:30 pm – 4:30 pm**
Presented by: Ed Wirth, Power Service Concepts Inc.

This course will focus on applications and technology of power supply monitoring, with specific AC and DC examples. One case study will focus on AC power risk mitigation – using 7x24 continuous monitoring of potential switchgear arc flash hot spots, including under Low Load conditions (ExerTherm product family). Another case study will focus on DC batteries as a critical link in electronic applications. Topics will include an interactive discussion on higher risk applications within the environments of the attendees. A live webinar demonstration of our Insite Management System (IMS) will be given with a range of solutions.

SCHEDULE

9:00a-10:00a 1 hr	*Security & Privacy of The Internet of Things*	*Inspecting & Assessing Indoor Air Quality and Mold*	*Vacuum Waste Disposal Systems*
10:00 – 10:15	Break		
10:15a-12:15p 2 hr	*Helical Piers and Anchors in Soil*	*Design and Sustainable development for Hot-Dip Galvanizing*	*Pump Design, Hydraulics*
12:15p-1:15p	**LUNCH**		
1:15p-2:15p 1 hr	*Effects of Energy Conservation on Temp & Humidity in Residential Bldg's*	*Utilizing Rainwater Reuse and Stormwater Control to Improve Water Efficiency*	*MOVES Project Level Traffic & Air Quality Analysis*
2:15 – 2:30	Break		
2:30p-4:30p 2 hr	*Flexible Fire Sprinkler Hoses.*	*Grounding & Lightning Protection*	*AC & DC Critical Power Supply Monitoring Systems*

MEMBER SOCIETIES

New York State Society of Professional Engineers
-Nassau Chapter
-Suffolk Chapter
American Institute of Aeronautics & Astronautics
Institute of Industrial Engineers
American Society of Civil Engineers
Institute of Electrical & Electronic Engineers
American Society of Heating Refrigeration & Air Conditioning Engineers
American Society of Mechanical Engineers
Society of Women Engineers
NY Association of Consulting Engineers
Society of Manufacturing Engineers
Farmingdale State University
Stony Brook University
Hofstra University
Instrument Society of America
American Society for Engineering Education
American Society for Quality

Engineers Week Seminar Series

Engineers Joint Committee of Long Island

Anthony Cacioppo, P.E., Co-Chair
Paul Lanzillotta, P.E., Co-Chair

ENGINEERS WEEK SEMINAR SERIES

Thursday, February 12, 2015
Holiday Inn Plainview - 215 Sunnyside Boulevard, Plainview, NY11803

To register, complete and return this form with payment by February 9, 2015 to:
Andrew S. Haimes,PE, 172 Sherry St, East Islip, NY 11730. Ph: 631-859-5190.
Email questions to: ashaimes@optonline.net

ALL FIELDS MUST BE COMPLETED. PRINT NEATLY. CHECK ALL SEMINARS YOU WISH TO ATTEND.

Fee: ____ **$125 for full day (6 PDH); includes lunch**
____ **$75 for half day (3 or fewer PDH); includes lunch**

____	9:00am – 10:00am	"Security & Privacy of the Internet of Things" (1 PDH)
____	10:15am – 12:15pm	"Helical Piers and Anchors in Soil" (2 PDH)
____	1:15pm – 2:15pm	"Estimating the Effects of Energy Codes on Indoor Air Quality" (1 PDH)
____	2:30pm – 4:30pm	"Flexible Fire Sprinkler Hoses" {2PDH}
____	9:00am – 10:00am	"Inspecting & Assessing Indoor Air Quality and Mold" (1 PDH)
____	10:15am – 12:15pm	"Design and Sustainable development for Hot-Dip Galvanizing" (2 PDH)
____	1:15pm – 2:15pm	"Utilizing Rainwater Reuse and Stormwater Control" (1 PDH)
____	2:30pm – 4:30pm	"Grounding & Lightning Protection" (2 PDH)
____	9:00am – 10:00am	"Vacuum Waste Disposal Systems" (1 PDH)
____	10:15am – 12:15pm	"Pump Design, Hydraulics" (3 PDH)
____	1:15pm – 2:15pm	"MOVES: Project Level Traffic and Air Quality Analyses" (1 PDH)
____	2:30pm – 4:30pm	"AC & DC Critical Power Supply Monitoring Systems" (2 PDH)

Total PDH _____ **Total Amount Enclosed** $_____

Make check payable to: Engineers Joint Committee of LI
NOTE: WE NOW ACCEPT CREDIT CARDS. If using a credit card you may e-mail this registration form to ashaimes@optonline.net

Name _____ Phone _____

Company _____ Address _____

E-mail Address _____

Credit Card Number _____ CCV Code _____

Credit Card Type (MC, Visa, AE, Disc.) _____ Expiration Date _____

Zip Code Associated With Credit Card _____

ASHRAE Golf Outing - Monday, May 5, 2015

16th Annual LI ASHRAE GOLF OUTING

Monday – May 4th, 2015

ASHRAE Long Island Chapter

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 10, 2015 (No Exceptions)

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

Name: _____ Company: _____

Address: _____ Phone: _____

City, State, Zip: _____ Fax: _____

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

Guest 1: _____ Company: _____

Guest 2: _____ Company: _____

Guest 3: _____ Company: _____

Fund raising is primarily through the contributions of our sponsors.

Please make check payable to:

ASHRAE – Long Island Chapter

Mail Checks To:

MG Engineering D.P.C.
Attn: Peter Gerazounis, P.E. LEED AP
116 West 32nd Street
New York, NY 10001
Fax No.: (212) 643-0503
Email: peter.gerazounis@mgedpc.net

Golf & Meals:	**$ 350 pp x ____**		**= $_____**
Reception & Dinner:	**$ 130 pp x ____**		**= $_____**
Sponsor Dinner:	**$1,000**	☐ **Yes**	**= $_____**
Sponsor Lunch:	**$ 500**	☐ **Yes**	**= $_____**
Sponsor Reception:	**$ 500**	☐ **Yes**	**= $_____**
Sponsor Prizes:	**$ 500**	☐ **Yes**	**= $_____**
Sponsor Beverage Cart:	**$ 500**	☐ **Yes**	**= $_____**
Sponsor Hole:	**$ 200**	☐ **Yes**	**= $_____**

ASHRAE Golf Outing - Monday, May 4, 2015

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 sun-dried 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.

ASHRAE Golf Outing - Monday, May 4, 2015

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.

Save-the-Date: Free ASHRAE Webcast - April 23, 2015

SAVE THE DATE

April 23, 2015

1:00pm - 4:00 pm EDT

FREE ASHRAE WEBCAST

New Tomorrows for Today's Buildings: Existing Building Commissioning

This FREE webcast will feature industry experts who will define the benefits of existing building commissioning for the environment, occupants, operations staff, and overall ownership costs. Viewers will be able to recognize the varied scopes of commissioning, when to apply comprehensive versus focused commissioning, and best practices in existing building commissioning specifications & contracting.

Visit www.ashrae.org/Webcast for additional information about the program, sponsorships, continuing education credits, speakers, and registration.

$$$ SAVE MONEY $$$

ASHRAE-LI is now offering **Ticket Books** for our Monthly Meeting/Dinner presentations. **$400 for a book of Eleven** (that's right....eleven, one better than ten) tickets for the price of ten member admissions. Tickets are valid until December of 2015 and may be used by members and non-members. For those of you who attend all or most of our meetings and for organizations who normally send large groups to the meetings, this is a great way to save a few dollars and speed up the entry process. For more information and/or to purchase ticket books, **please contact Don Kane at finsec@ashraeli.org or call 631-574-4870**.

ASHRAE Long Island Chapter

CLASSIFIEDS

ELECTRICAL TRAINING CENTER Inc.
65 Elm Street, Copiague, NY 11726
Tel: (631) 226-8021 Fax: (631) 226-8326
www.electricaltrainingcenter.edu

Help Wanted - HVAC/R Instructor

Job Description:

Electrical Training Centers HVAC/R training division is hiring HVAC/R instructors.

Full and part time available to provide instruction with an approved training curriculum and materials in accordance with the state of New York Education department standards.

Enjoy and appreciate teaching in our newly completed state of the art laboratory and classrooms to educate and develop the HVAC/R industries finest & future technicians and installers of Heating, Ventilation and Air Conditioning.

Responsibilities:

Motivate, Educate, Develop and prepare present and future technicians in all aspects of the educational process.

Maintain expertise in subject matters taught.

Provide regular, precise and timely feedback to students and school administration concerning academic progress as well as behavior and attendance.

Job Requirements:

Industry certified HVAC\R technician with experience in residential and commercial applications.

EPA Universal Certification and/or related licenses/certifications preferred.

Prior teaching experience a plus.

Ability to work with other instructors and independently while utilizing excellent communication and emphasis on organizational skills.

Gas and oil burners, controls and wiring a definite plus!

Company Overview:

The Electrical Training Center Inc. was founded in 1998 to meet the ever-increasing demand in today's market for qualified electrical helpers. In 1999, the school was licensed by the New York State Education Department and began their first class in electrical training. In 2003, the school changed ownership and began to expand the curriculums and programs offered at the school. In 2010, the school was granted accreditation from ACCET. The school is presently working towards further expanding the facilities and curriculum. Please visit our Website at: **www.electricaltrainingcenter.edu**

Send resume to: **robert@electricaltrainingcenter.edu** or Fax: (631) 226-8326

CLASSIFIEDS

DAIKIN APPLIED - SOLUTIONS PLAZA MANAGER

Daikin Applied manufactures technologically advanced commercial HVAC systems that customers from around the world can trust to advance their needs for performance, reliability and energy efficiency. The people at Daikin Applied use their expertise to creatively move HVAC technologies forward. Daikin Applied products and services are sold through a global network of dedicated sales, service and parts offices.

Position Summary

Provide the primary customer support for the Solutions Plaza. This includes leading customer events and meetings, providing technical overviews and benefit presentations of all Daikin Applied products, solutions and Aftermarket services. Also, this person will lead programs and program development conducted under the Daikin University education. The attendees of these classes will be consulting engineers, architects and contractors seeking industry instruction and continuing education credits. Key responsibilities of the role include:

- Host all customers that visit the Solutions Plaza. As the host, you will develop and present customized technical and commercial presentations to our customers, based on specific needs and vertical markets.
- Act as the primary instructor for the education classes conducted in the Solutions Plaza. As the primary instructor you will research and develop training materials to be used in the Daikin University program, identify instructors who can share the teaching role, and maintain the Daikin certification program.
- Demonstrate and describe all Daikin products, solutions and Aftermarket service that are included in the Solutions Plaza. This includes having a thorough understanding of vertical market applications and being able to describe the benefits of Daikin products and solutions, for those applications.
- Create and manage Solutions Plaza budget, including capital expenditures, operating and marketing expenses.
- Perform as the Solutions Plaza Facility Manager. This includes: Directing the development and activities for the Solutions Plaza Coordinator; Providing input to the marketing teams for suggested improvements to the Solutions Plaza; Managing existing equipment, modifications and upgrades to ensure the Solutions Plaza features our most innovative equipment.; Perform obligations related to tenancy (lease, utilities, space maintenance)

Qualifications

- Bachelor's Degree in Engineering or related disciple
- 6+ years or professional work experience
- Proven sales track record or extensive customer marketing event experience
- Outstanding relationship management, interpersonal, and problem-solving skills
- Demonstrated leadership capabilities
- Demonstrated proficiency in the MS Office Suite (Outlook, PowerPoint and Excel)

Preferred Qualifications

- Graduate degree in engineering , finance, business
- Prior experience creating sales proposals/marketing presentations
- Prior experience managing people (this role will manage a Coordinator)
- Prior experience managing budgets
- Competitor experience in commercial HVAC industry experience
- Demonstrated sales success – energized by meeting or exceeding sales goals
- Demonstrated example of taking initiative with a solid work ethic
- Exceptional communication skills, well developed listening skills, and ability to interpret business and/or client needs

Interested applicants can view and apply for this role on our website by going to www.daikinapplied.com/employment.php and using job ID 2300.

It is the policy of Daikin Applied to provide equal employment opportunity (EEO) to all persons regardless of age, color, national origin, citizenship status, physical or mental disability, race, religion, creed, gender, sex, sexual orientation, gender identity and/or expression, genetic information, marital status, status with regard to public assistance, veteran status, or any other characteristic protected by federal, state or local law. In addition, Daikin Applied will provide reasonable accommodations for qualified individuals with disabilities.

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If you would like to place an advertisement in the Long Island Sounder, please contact our Chapter Financial Secretary, Don Kane, PE @ 631-574-4870 or by email at finsec@ashraeli.org for further details. Thank you.

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Triple Size	$350	Full Page	$800

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