

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.

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President's Message

Welcome to the March edition of the Long Island Sounder. Thank you to all those who attended last month's meeting; it was great to see such a high turnout despite the weather. We were happy to have Ms. Laurel Christensen of Big A** Solutions present on *Air Movement for Energy-Efficient Comfort in Conditioned Spaces*. This was a great presentation with multiple applications for our members.

This month we welcome Ed Twiss, PE, of Analytical and Combustion Systems, who will present on *Boiler and Generator Fuel Oil Pumping and Distribution*.

The presentation will discuss typical system layouts, units and terminology, fuel oil pumping basics, system applications, pump set choices, system design and long term storage of fuel considerations. The presentation is for one PDH.

We also welcome back Evans Lizardos, PE, with his next Back to Basics presentation on *Smoke Purge System Design*. As always, we are honored to have him. Evans had presented this in November, when our original presenter was not able to attend; however, PDHs were not available at that time. We can now offer the PDH for this presentation.

If you take a look outside, it may seem difficult to believe that we'll soon be able to drop our snow shovels and pick up our golf clubs, but it's true. The Annual LI ASHRAE Golf Outing is approaching quickly. The event is scheduled for Monday, May 23rd, at the Cherry Valley Club in Garden City. The outing kicks off with brunch at 11:00 a.m., shotgun start golf at 12:30 p.m., followed by a 5:30 p.m. post-golf cocktail hour and 6:30 p.m. dinner reception. Please note, this event fills up fast, and there is a two foursome limit per company. Please see the flyer in this newsletter for more information on registering.

Finally, I want to thank all ASHRAE members for their help with Resource Promotion. Last month was RP night, and we are happy to report that we are on target to reach our goal this year. Please look for more information in the RP article in the newsletter from our RP Chair, Andrew Dubel, PE.



Thomas J. Fields, P.E., LEED AP
President - Long Island Chapter

CHAPTER MONTHLY MEETING

DATE:	Tuesday, March 8, 2016
TIME:	6:00 PM - Cocktails/Dinner 7:00 PM - Dinner Presentation 8:45 PM - Conclusion
LOCATION:	Westbury Manor 1100 Jericho Tpke. Westbury, NY 11590
FEES:	
Members -	\$45.00
Guest -	\$50.00
Student -	\$15.00

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

Long Island Chapter Officers & Committees

ASHRAE 2015/2016 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	president@ashraeli.org
President-Elect	Charles Lesniak, P.E			president_elect@ashraeli.org
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Board of Governors	James Hanna	718.269.3768	718.269.3794	bog2@ashraeli.org
Board of Governors	Bill Artis	201.395.3750		bog3@ashraeli.org
Board of Governors	Richard Rosner, P.E.	631.737.9170	631.737.9171	BOG4@ashraeli.org

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Programs & Special Events	Charles Lesniak, P.E			programs@ashraeli.org
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Chapter Regional Conference Committee	Richard Halley	718.269.3809	718.269.3725	crc@ashraeli.org
Young Engineers in Training	Frank Paradiso	631.632.2791	631.632.1473	yea@ashraeli.org
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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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Chapter Monthly Meeting - Program for 2015/2016

September 8, 2015 * At Westbury Manor  Dinner Presentation – Commissioning Considerations for VRF Systems Presenter: Bill Artis **1 PDH**	February 2016  NATIONAL ENGINEERS WEEK
October 20, 2015 * At Westbury Manor  Dinner Presentation— “Dr. Duct Tape” Presenter: Max Sherman, PhD **1 PDH** ASHRAE DISTINGUISHED LECTURER Back to Basic Session I - **1 PDH** “Selecting and Designing Refrigeration Equipment Component Packages”	March 8, 2016 * At Westbury Manor Dinner Presentation— Boiler and Generator Fuel Oil Pumping and Distribution Presenter: Ed Twiss **1 PDH** Joint meeting with LI-Geo YEA Night Back to Basic Session III – **1 PDH** “Design & Theory of Smoke Purge System Design”
November 10, 2015 * At Westbury Manor  Dinner Presentation-- Phenolic Duct Construction Standards Presenter: Eli P. Howard, III **1 PDH** Resource Promotion Night Joint meeting with SMACNA Student Activities Night & YEA Night as well as Membership Promotion and Upgrade Night	April 12, 2016 (5 PM) ANNUAL FIELD TRIP TBD **1 PDH** Dinner to follow at a local Restaurant
December 8, 2015 * At Westbury Manor  HOLIDAY PARTY Free Buffet Dinner for Members	May 12, 2015 * At Westbury Manor Dinner Presentation— Series Counter Flow Screw Chiller Design Presenter: TBA **1 PDH** Student Activities Night Refrigeration Night
January 12, 2015 * At Westbury Manor  Dinner Presentation– Energy Storage: A Vital Ingredient in a Lower Carbon Future Presenter: Mark M. MacCracken, P.E., Pte. LEED Fellow **1 PDH** ASHRAE DISTINGUISHED LECTURER Back to Basic Session II - **1 PDH** “The Rise of Variable Flow Primary and the Fall of Primary/Secondary/Tertiary Pumping Systems “	May 23rd, 2016 * Cherry Valley Club, Garden City, NY ANNUAL GOLF OUTING
January 2016  ASHRAE Winter Meeting	June 14, 2016 * 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 9, 2016 * At Westbury Manor  Dinner Presentation—Air Movement for Energy-Efficient Comfort in Conditioned Spaces Presenter: Laurel Christensen **1 PDH** Joint Meeting with USGBC Resource Promotion Night Membership Promotion Night	August 2016 Chapter Regional Conference (CRC) Region I

BOG Meeting Minutes

Secretary (Frank Paradiso)

- Meetings minutes – approval
- Comments/Additions
 - Minutes from January are approved.

President (Thomas Fields)

- PAOE – Latest Updates are due.
- ARTICLES, DUE 2/20!
- Looking to do short presentation on TC/TAC in March, for PAOE. Bill Artis to assist.
 - 15-20 minutes (Maybe during Cocktail hour) Andy can do small RP presentation for TC.
 - Update PAOE points.

President-Elect/Programs (Charles Lesniak)

- Sponsors for cocktail hour?
- Confirm USGBC Feb. attendance.
- NYC event?.
- Field Trip? Brewery? Need on Calendar.
 - Inquiring about Bay Shore Brewery, looking into as possible field trip event.

Chapter Technology Transfer (Don Kane)

- Keep sending info on special events -
- Push new smart phone apps and computer programs.

Treasurer (Richard Halley)

- Newsletter invoicing
- Expenses/Reimbursements
- Taxes!!!
- Did check go to Rosners?
 - Yes it did, thank you for everyone's generosity.
 - \$14181.56 before tonight's chapter expenses
 - Newsletter invoicing is to be focused on.

Grassroots Government Activities (Charles Lesniak)

Try and get a local rep to the Feb meeting with USGBC – Update?

Get local officials on mailing list.

- Needs to go to President Elect training
- Joint Meeting this month.
- February 11th ASHRAE member presenters bring points to the chapter.

Historian (James Hanna)

- Articles
- Digitizing records
- Interview – Ron Kilcarr?
- Follow up with Neil Rosen on Habitat for Humanity – Update?
 - Working with Ron Kilcarr for the interview, he is on board
 - Spoke to Neil regarding the Habitat for Humanity project. Floor plan is finalized, they will provide drawings files and plans for load calculations.
 - They are considering April-May as the possible build date.
 - Past President Joe M. works at a newspaper and may be able to help.
 - Press releases interest with ASHRAE's involvement may lead to PAOE points.

Honors and Awards Chair (Brian Simkins)

- Nominations this year.
- Eugene Silberstein?

Research Promotion (Andrew Dubel)

- Status update.
- How is 30% by December looking?
- Vendor Book update.
 - We are at about 60% of our goal
 - Vendor's invoicing are trickling in, we need to gently remind the others.

BOG Meeting Minutes (Cont'd. from page 4)

Membership Promotion (Ken Mueller)

- Maintain delinquencies less than 2%
- Upgrade membership from associate to member – we had one, any others?
- Recognition of new members at chapter meetings.
- Article please.
- PAOE
 - Andrew Blum would not mind helping with chapter duties and picking up some responsibility
 - Keep up with Membership and gentle reminders about lapsed or near lapsing members.
 - Look into Chapter Dues report.

Student Activities (Richard Halley)

- Student membership update.
- Stony Brook Chapter Update
- Suffolk, Hofstra, NYIT
- Prof. Eugene leaving – any actions by us?
- Any K-12 activities? TJF has one in March and is on local school STEAM committee, PAOE?
 - Student Activities night
 - Plaque made up for Eugene Silberstein to acknowledge his support and tutelage of the Student members of ASHRAE
 - Ask members to support the students that are involved with the ASHRAE student design project with documents or standards

YEA (Frank Paradiso)

- Events?
- Smart Start promotion
 - Keep focus on student members that are eligible to transition to full ASHRAE chapter members

Web Master

- Newsletters need to be uploaded – Does anyone know how to do this without consultant? Have gotten no response.
- Can everyone use the email aliases? (MGE has email issue with them)
- Constant Contact working well.
 - Don will follow up with Anthony to keep website updated
 - Newsletter bouncebacks need to be worked on.

CRC 2017 (Richard Halley)

- Update on the event planning
- Proposed meetings 4th Tuesday of month - minutes?
- Wind Watch Golf Email
 - South Bay Padd
 - Flames?
 - Approx 220 people for presidential dinner?
 - Work on forming a list of people to support the LI CRC
 - Inquire, touch base with companies and consultants to possible sponsor
 - Penciled in for Golf
 - Steve Sills is the Student Activities chair

Golf (Steven Friedman, Peter Gerazounis)

- Get them involved in the CRC golf event planning, if they can.
- Steve is looking to step down. We will need assistance with this going forward. Nominations? Still open.

Old Business

- Ticket Books.
 - Will be made available upon request.

New Business

- Open forum...

Time/Place of next BOG Meeting – March 8, 2016.

Motion to Adjourn

Long Island Chapter - Past Presidents

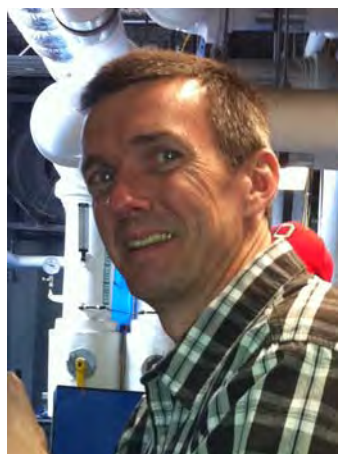
1958	H. Campbell, Jr. PE	1987	Abe Rubenstein, PE
1959	Clyde Alston, PE	1988	Michael O'Rourke
1960	Sidney Walzer, PE	1989	Mel Deimel
1961	Sidney Gayle	1990	Robert Rabell
1962	William Kane	1991	Gerald Berman
1963	Louis Bloom	1992	Donald Stahl
1964	Milton Maxwell	1993	Ronald Kilcarr
1965	Will Reichenback	1994	Jerald Griliches
1966	Joseph Minton, PE	1995	Walter Stark
1967	Irwin Miller	1996	Joe Marino
1968	Walter Gilroy	1997	Norm Maxwell, PE
1969	Charles Henry	1998	Alan Goerke, PE
1970	William Wright	1999	Frank Morgigno
1971	Louis Lenz	2000	Michael Gerazounis, PE, LEED AP
1972	Ronald Levine	2001	Ray Schmitt
1973	Henry Schulman	2002	Steven M. Stein, PE
1974	Myron Goldberg	2003	Andrew Braum, PE
1975	John N. Haarhaus	2004	Claudio Darras, P.E.
1976	Richard K. Ennis	2005	Craig D. Marshall, P.E.
1977	Kenneth A. Graff	2006	John Nally
1978	Evans Lizardos, PE, LEED AP	2007	Peter Gerazounis, PE, LEED AP
1979	Albert Edelstein	2008	Steven Friedman, PE, HFDP, LEED AP
1980	Ralph Butler	2009	Steven Giammona, P.E., LEED AP
1981	Robert Rose, PE	2010	Nancy Román
1982	Timothy Murphy, PE	2011	Carolyn Arote
1983	Leon Taub, PE	2012	Brian Simkins, LEED AP
1984	Raymond Combs	2013	Andrew Manos, LEED AP BD+C
1985	Edward W. Hoffmann	2014	Richard L. Rosner, P.E.
1986	Jerome T. Norris, PE		



PAOE POINTS FOR 2015/2016

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	GGAC	Chapter PAOE Totals
282	130	175	980	0	730	1,100	175	3,290

March Program



Dinner Presentation

“Boiler and Generator Fuel Oil Pumping and Distribution”

Presented by

Ed Twiss

Analytical and Combustion Services

**Attendees
Will Earn
1 PDH!**

DATE:	TUESDAY MARCH 8, 2016		
Time:	6:00 PM - Cocktails and Hors D'oeuvres 7:00 PM - Dinner Presentations 8:45 PM - Conclusion	Fee:	\$ 45.00 Member \$ 50.00 Guest \$ 15.00 Student
Location:	WESTBURY MANOR (516) 333-7117 1100 Jericho Tpke., Westbury, NY 11590 Directions are posted at @ www.ashraeli.org.		
Presentation:	This month's presentation will discuss typical system layouts; units and terminology, fuel oil pumping basics, system applications, pump set choices, system design and long term storage of fuel considerations. All attendees will receive <u>1 PDH</u>.		
About our Speaker:	Ed Twiss spent his first 15 years of his career in the design and startup of industrial process control systems until his transition to facility Engineering Manager at International Paper's Corporate Research Center. When International Paper closed its doors in 2004 Ed joined Analytical and Combustion Systems (ACS), a boiler room equipment and fuel oil systems manufacturers' representative organization. Since joining ACS as a sales engineer Ed has worked on the following notable projects including: Croton Water Filtration Facility Central Heating Plant, Combustion Controls upgrade at Eastern Correctional Facility in NYS, Central Heating Plant and generator fuel oil distribution system at Greystone Park Psychiatric Hospital, and fuel oil distribution systems at the PATH Hall and 911 Memorial and Fox News. Mr. Twiss has a BS degree in Electrical Engineering, an MS degree in Manufacturing Engineering, an MS degree in Engineering Management and is a NY state licensed Professional Engineer.		

CHAPTER MAY NOT ACT FOR SOCIETY

An International Organization

Young Engineers in ASHRAE (YEA)

It appears as though Spring is around the corner and the Long Island ASHRAE chapter meeting will be on March 8th, 2016. The local chapter meeting is always a great way to learn about what being a member of ASHRAE has to offer and a great place to meet other people in the industry with networking opportunities.

Keep up to date with some upcoming YEA programs 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.

- **June 13-15, 2016 in Atlanta, GA** (deadline for application is Monday, April 18, 2016)

Another great way of keeping up to date with ASHRAE is following the YEA Connection to keep informed of any news and activities on a quarterly basis

Smart Start Program

Recent Graduates can transfer their student ASHRAE account with the Smart Start Program.

Simply put, it's the best way for ASHRAE student members to receive the many benefits of Associate grade membership after finishing college. SmartStart is a 3-year program that allows Student members to transfer to Associate grade membership at a rate that is recent-graduate friendly.

I will be looking into an informal YEA gathering in the coming weeks so stay tuned for emails about details. We will be looking for more ideas for social events so please contact me if you have suggestions.

Be sure to connect with Young Engineers in ASHRAE.

Frank Paradiso
YEA Chairman



Research Promotion

As always, I would like to extend my sincerest thanks to you for your support of ASHRAE Research. It's because of your support that we were able to fund more than \$14Million dollars worth of research. More than 80 research projects worldwide received support from ASHRAE because of your investment. Last year we reached 115% of goal with a total campaign worth 2,540,800 dollars. This was accomplished with over 7,000 Ashrae Donors. We hope to set a new high again this year.



Find out more with this [Brochure](#).

I would like say 'thank you' to all the contributors listed below whom have already donated to ASHRAE this year. Through your generous support we reached 60% of our goal.

INDIVIDUALS

Frank D Morgigno	Frank Paradiso
Michael Gerazounis, PE	Richard Halley
John D Nally	James Hanna
Andrew E Manos	Thomas Fields
Donald W Kane, PE	Ricky Gaska
William Artis, Jr	Chris Sideris
Richard L Rosner, PE	James R Tauby, PE
Andrew B Dubel	Steve Benkovsky
Charles J. Lesniak, PE,	Richard Pearson
Robert J Fuchs	

COMPANIES

SMACNA - Long Island	Catan Sales
PVI	Klima Sales
Metro Air Products	Venco Sales
Technical Air Systems	Miller Proctor Nickolas Inc.
RPG Associates	
Albert Weiss	
VMC East	
MV Controls	
ACS Analytical and Combustion Systems	
AEF Sales	
Accuspec	
Lizardos Engineering	
Bush Sales	

CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

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

Andrew Dubel, P.E.
ASHRAE Research Promotion Chair
c/o Lizardos Engineering Associates PC
240 West 35th Street, Suite 304
New York, NY 10001

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

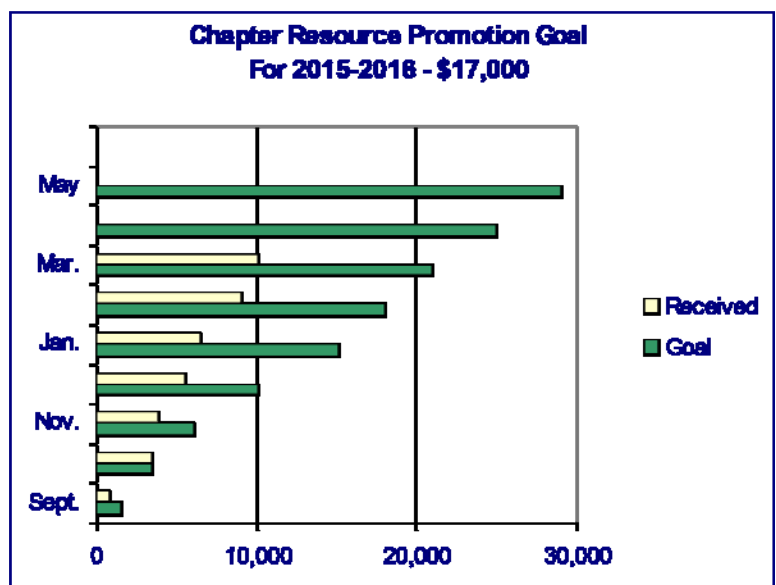
3) You can contribute via PayPal from the ASHRAE LONG ISLAND web site, just click on the donate button.

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 B. Dubel, P.E.
Research Promotion Chair



CTTC - THERE'S NO FUEL LIKE AN OLD FUEL

Whether firing a boiler directly or using a heat pump (employing electric motors) to provide comfort-conditioning, the one primary requirement is that there be a supply of fuel. While our Cro-Magnon friend Og had little choice (once he found out how to start a fire) but to use whatever branches and fallen tree trunks he could find to provide some heat and, perhaps, cook up some brontosaurus burgers, today we have a wider selection of fuels from which to choose when providing comfort-conditioning and power. Each of the fuel options presents various advantages and disadvantages, as well as imposing differing requirements for storage and usage.



On the broadest level, we identify fuels as either "fossil" fuels or "non-fossil" fuels. The non-fossil fuels would include nuclear, wood and some gaseous fuels derived from more recently disposed of feedstock (rather than fossilized plants and marine life from hundreds of thousands of years ago), such as methane derived from landfills and sewage treatment plants. While not, strictly speaking, fuels, some would lump solar and tidal-flow under the heading of non-fossil "energy sources". While all of these non-fossil fuels/energy sources have their uses in either very large scale (e.g. nuclear power plants) and small scale (e.g. wood waste used for cogeneration at wood processing facilities), for the most part, when we are selecting a fuel source for a boiler or generator that is associated with a particular facility, we will generally be choosing one of the fossil fuels as the source of energy.

Whether being used to fire a boiler (or an adsorption cooling unit) or to power the prime mover spinning a generator, many of the concerns and requirements are similar; namely, to insure a reliable supply of fuel, to maintain the quality of the fuel and to provide a safe environment for the use of the selected fuel.

Gaseous Fuels

Gaseous fuels include utility supplied natural gas (so called "sale gas", composed primarily of methane) and liquefied propane gas (LPG). Utility natural gas, while avoiding the problems associated with storing liquid fuels, is not generally considered a reliable source for emergency loads or use in a facility used for a Critical Operations function. While it is possible to provide for onsite storage of compressed natural gas, the equipment and space needed to accommodate this (as well as the cost of installing pumping equipment identified as suitable for use in a hazardous [classified] area) would be prohibitive. In addition, some gas train components may require vent lines to the exterior of the building as well as additional gas monitoring equipment, to alarm in case of a leak. Not all gas utilities can supply gas at the flows required for large facilities, requiring coordination with the supplying gas utility to ensure the adequacy of the supply, or identify the need for supplementary equipment to provide adequate flow at the pressures required. The BTU content of sale gas may vary from season to season, as does the moisture content, and the aromatic constituents present. This variation in content will generally be of more concern when used to fuel power generation equipment, especially aeroderivative gas turbines.

The use of Propane (LPG), especially when large on-site storage is anticipated, may incur limitations based on how close to adjacent properties the storage and handling equipment is located. Being heavier than air, propane will tend to collect in low lying spaces if there is any leakage, requiring monitoring instrumentation to give adequate warning should there be a hazardous build-up of gas. As propane is stored in a liquid form and needs to be fully vaporized prior to use, gas train components need to be adequately sized to prevent drawing liquid propane out of the tank, into the system.

To their credit, both natural gas and propane avoid the concern of stale fuel, when used for standby type operations where the equipment is not run except during emergencies or testing.

Liquid Fuels

Liquid fuels to be used will generally be No. 1, No. 2 or , in older installations, No. 6 (Bunker C) oil. The high sulfur content of No. 6, as well as the need to utilize pre-heaters (to assure the proper viscosity) and provide for start-up and shut-down with lighter oil (e.g. No. 2) to prevent clogging of the fuel lines, filters and pumps limits its selection as a fuel of choice these days. While No. 1 oil has a lower BTU content than No. 2, its lower "waxing" point temperature can be beneficial when blended with No. 2 oil, to permit operation at lower temperatures.

CTTC - THERE'S NO FUEL LIKE AN OLD FUEL (Cont'd. from Page 10)**Conditions of Use**

Boilers will see frequent use during the heating season, with prolonged periods of non-use when the warmer weather arrives. While some boilers may be used to supply domestic hot water, a smaller, dedicated hot water heater may be employed to supply the domestic hot water requirements for the building.

Generators may see relatively little use (standby use and testing), or they could supply prime power for the facility and be in operation 24/7. Some generators used for emergency use or required standby may be used for peak shaving (when capacity or provision for load shedding allows).

Whether used for firing a boiler or fueling an engine-driven generator, the major demands on a fuel storage/delivery system are similar; provide a reliable supply of fuel, maintain the fuel quality to the required limits and comply with all safety and environmentally related requirements.

Unless the heating plant and/or generator installation is housed in its own facility, generally the quantity of fuel that may be stored in the immediate area of the equipment will be limited, requiring the installation of a so-called daytank, which is, in turn, maintained at a sufficient level by a transfer pump system, drawing from the main storage tank (which could be underground, above ground or located in a protective structure). The fuel contained in both the main tank and the daytank need to be protected against biological degradation (yes, there are organisms which find No. 2 oil to be fine meal) as well as condensation from moist air drawn into the tank vents. To accomplish this, chemical biocides need to be added to the stored fuel and, in some cases, fuel-polishing equipment (basically a circulating pump which draws the fuel from the tank, filters it to remove any organic byproducts and/or wax and returns it to the tank) needs to be installed. If contamination is an issue, centrifugal pre-filters may be employed, as well as water separators which will allow for the removal of any water contamination from the fuel.

It is usually best if any filters and water separators are configured in a duplex configuration, with a changeover valve, to permit servicing without interrupting operation of the boiler or generator. For critical applications or ones with high duty cycles, duplex, alternating pumps are recommended, to even out the usage and provide for backup should a pump or pump motor fail. The fuel distribution piping will be similar for boilers and generators except the engine-generator will usually have an engine driven fuel pump for drawing fuel from the day tank (a high-lift pump if there is a significant elevation difference between the day tank and the engine). If a day tank for an engine-generator is located at a higher elevation than the engine fuel pump inlet, it may be necessary to reverse the engine pump seals to prevent bypass leakage, when not running.

While the engine-generator will only require a transfer pump to maintain the day tank, a boiler will have a second pump (or set of pumps) supplying the burner(s) from the day tank, with a back pressure valve to maintain system pressure. While both systems return fuel to the tank, the return fuel from the engine-generator may be at an elevated temperature, if used to cool the fuel injection components. The day tank should be sized to prevent overheating of the fuel, as a decrease in performance will result as well as a degradation in the lubricity of the oil which can result in accelerated wear of internal engine parts.

Fuel Tanks

As noted above, there will normally be a main fuel tank and a day tank. Some engine generator installations will employ a fuel tank base sufficient for the required operational time, and include an engine driven fuel pump sufficient to draw from the base mounted tank. In most cases, there will be a main tank and day tank. Unless other means of spill protection is provided, these will generally be double wall construction, with means to visually check for leakage, as well as float switches to alarm if leakage is occurring, and filling the outer compartment. If the main tank is buried in the ground additional requirements apply, involving suitable materials and the need for Leaking Underground Storage Tank (LUST) detection equipment. Although the minimum operating duration for an emergency generator is two hours, if a generator supplies power and a boiler supplies heat to a critical operations facility, 72 hours or more of operational time may be required, requiring the main storage tank to be sized accordingly. Piping between tanks and supplied equipment should be suitable for the fuel used.

CTTC - THERE'S NO FUEL LIKE AN OLD FUEL (Cont'd. from Page 11)

Monitoring and Control

Fuel system instrumentation would include, as a minimum, pressure monitoring and flow monitoring. Additional functions which may be needed would include: filter restriction alarms, Level alarms, leak detection alarms, net fuel flow (if a BIM system is used to track energy use).

On the piping side, isolating valves (to permit component maintenance/replacement), check valves (including a foot valve in the bottom of the main tank to maintain prime for the transfer pump), pressure relief valves (vented to a collection vessel) are required.

Pump controllers are needed and will incorporate the alternating function for duplex pump set-ups. Similar to the installation of filters, pumps should be installed such that a failed pump can be removed and replaced without shutting down operation of the system.

Pumps and Motors

Pump selection will be based the quantity and type of fuel being supplied, but can usually be categorized as positive displacement or centrifugal types. Positive displacement pumps may be piston type or gerotor (internal rotating gears). If there is a time varying fuel requirement, the centrifugal pumps may offer more of an opportunity (paired with variable speed motor drives) for energy savings.

Regardless of the type of pump, a choice has to be made as to direct drive or indirect drive. Direct drive installations would include common-shaft configurations as well as connection between motor and pump shafts by means of a flexible coupling.

The common shaft pumps (motor and pump assembled together using the same shaft) eliminates alignment issues and decreases time needed for installation (replacement), but will limit ones choices for future replacements. While the torsional compatibility of the motor and pump masses is critical, with the common shaft, this is something that the manufacture of the motor/pump assembly would engineer when the unit was designed.

Using a flex coupling to connect the driving motor to the pump will permit minor alignment errors and provide some torsional decoupling, but will not remediate torsionally incompatible motor/pump masses.

Both common shaft and flex couplings minimize any side loading of the motor or pump, which may minimize bearing wear.

Indirect drivers, using belts, chains or gears eliminate the axial alignment issued between the motor and pump, but incur issues of side loading, noise, additional maintenance and, especially for the gear drive, power losses.

Summary

This has, by no means, been an exhaustive treatise on fuel selection, pump selection and identification of required auxiliary equipment/accessories needed to supply fuel to a boiler or generator; but is meant, rather, to highlight the myriad points to be addressed in order to make an intelligent and code compliant choice as to fuel system design. It seems that Og may not have realized how easy he had it...just pick up a few branches and be done with it! We may very well be burning the oil today that was a living plant or sea creature when Og sat around his fire.

Enough of this fuelishness...

Don Kane, P.E.

CTTC Chair AND V.P. - cttc@ashraeli.org

Membership

During the March Meeting, we will be doing a brief presentation on involvement on some of the various committees you can volunteer to work with as a member of ASHRAE. These committees are vital to the success of our organization, and without their work it's hard to imagine what we would be left with.

Technical committees, for instance, are responsible for maintaining and updating ASHRAE Handbook chapters which are published every year. With each committee, there is a Handbook Sub-Committee that is chaired and staffed by volunteers, of which can be voting and non-voting members of the technical committee. TCs are also responsible for program content for the Winter and Annual ASHRAE Conferences that occur every year. Aside from the Handbook sub-committee is also a Programs sub-committee. The responsibility of the Programs Chair, and volunteers under them, is to identify seminars, papers, and workshops to sponsor and submit for the conferences.

These are just a few examples of what Technical Committees are involved with in ASHRAE, there are also many other sub-committees that exist within the different TCs. Joining a TC is simple, all you need to do is to go to the ASHRAE website, and under "Standards, Research and Technology", go to the technical committee section. From there, find a TC (or multiple ones) that you are interested in go to <https://www.ashrae.org/standards-research--technology/technical-committees/applying-for-membership-on-a-technical-committee-2015> to request to join.

You will be registered to that TC as a "Corresponding Member" and will be included on TC wide emails and updates. TCs are always looking for volunteers for the multitude of different responsibilities they have, and if you are interested in volunteering simply email the TC chair about what you would like to help with.

Attending TC meetings during the conferences is also a great way to network with other industry professional with similar specialties and engineering focuses.

This is just a short summary, feel free to ask the presenters more information during the March meeting.

Ken Mueller
Membership Chairman

Student Activities

As spring approaches many of our student members will be graduating. If your company has an opening for entry level engineers, please let us know. They, and we, appreciate the opportunities.

Be on the look out for our scholarship applications. We will be issuing several scholarships this year for current college students and high school seniors. A separate mailing will be sent with the applications.

Last month, we acknowledged Professor Eugene Silberstein's contributions to our student members as the Charter Student Advisor for the Suffolk Community College Student ASHRAE Chapter. We are sad to see him leaving, but of course wish him the best in his new endeavor. Thank you for all you have done, Professor.



Thank you for supporting our student members!

Richard Halley
Student Activities Committee Chair

Grassroots Government Activities Committee (GGAC)

As most of you know ASHRAE is no longer a US based society it has moved itself to a global society, ASHRAE wanted to start a new committee in their local chapters to help it grow globally so it created the GGAC. The main purposes of the GGAC is to serve as a communicator between the local ASHRAE chapters and national, serve as a communicator between the local ASHRAE chapters and other trade organizations, and to update local government officials on ASHRAE standards and technical issues. Please look at the ASHRAE's main GGAC webpage at <https://www.ashrae.org/government-affairs/> and ASHRAE's new GGAC Facebook page at www.facebook.com/ASHRAEGGAC/ for more information what the GGAC is doing nationally. The latest topics which ASHRAE is participating in can be found at the link: <https://www.ashrae.org/government-affairs/government-affairs-updates/government-affairs-updates-02-05-2016>



Please contact me if your organization would like to join us for a joint meeting.

ASHRAE Submits Comments to EPA on Proposed Refrigerant Management Rulemaking: Responding to the US Environmental Protection Agency's (EPA) proposed rulemaking on refrigerant management under Section 608 of the Clean Air Act, ASHRAE submitted comments to EPA in January. The Society's comments addressed several areas, including: Enforcement, Technical Certification, Recordkeeping, Leak Detection and Repair, Recovery, Standards, and Seasonal Variances.

New York Regulators Chart Course to Reach 50% Renewables by 2030: NY Public Service Commission issued a white paper that lays out a roadmap for the state to reach 50% renewable, setting tiers for existing and new generation in the clean energy standard, directing investor owned utilities to participate and using a mix of renewable and clean energy credits to back nuclear energy. The white paper also calls for a firm set of requirements for both clean energy and renewable energy tiers through 2020, with targets through 2030 to be developed in an implementation plan.

Mold Licensure Bill Introduced Again in New Jersey Legislature: NJ Assembly Bill 381, which would establish procedures for the inspection and abatement of mold hazards in residential buildings and school facilities, and certification programs for mold inspectors and mold hazard abatement workers, has been introduced in the New Jersey legislature again this session. This bill, which is quite similar to a bill passed in the NJ legislature in the previous session and vetoed by Governor Chris Christie (R), was introduced on January 26 and was referred to the Assembly Housing and Community Development Committee.

Charlie J. Lesniak, P.E.
Grassroots Government Activities Chair

History

This month I interviewed 1993's Past President Ronald Kilcarr, P.E. Here are some interesting facts on Mr. Kilcarr:

Name & Title: Ronald Kilcarr, PE, Trane Strategic Business Development Leader

Born & Raised: I was born in Good Samaritan Hospital, West Islip, Long Island, NY and was raised in Deer Park, NY

Schools: Deer Park HS, State University of New York at Farmingdale, Rochester Institute of Technology, New York Institute of Technology and the University of the State of New York.

Degrees: A.A.S. in Air Conditioning Engineering Technology, B.S. in Energy Engineering Technology, M.S. in Energy Management and my Professional Engineering License



1. What attracted you to engineering and the HVAC industry?

As far as engineering goes, in High School I seemed to be somewhat successful in math and science which are natural derivatives of Engineering. What attracted me to the HVAC industry was what appeared to be the inherent long term society requirements for HVAC and the ability to sustain a career.

2. What was your first job in the HVAC industry and where did it lead?

My first job in this industry was in 1982 for a design build HVAC Contractor named E.W. Hoffmann, Inc. where I started out assisting the project engineers with drawing revisions (with a T-square and pencils – remember those). I thought this was great, I got to re-size ducts and pipes, drawing things that were real and doing load calculations, all skills I just learned in college. Oh and don't let me forget to mention the hours in the dark room with the undeveloped yellow paper and tracings making blueprints (ok, just lost more than half the readers). Then I started working with the project engineers doing project estimating.

Now this is where I get hooked, the project engineers started to bring me to the project sites. Now I saw the job I did the HVAC load calculations for, I saw the equipment we selected for the project, I saw the pipes and ducts that I revised on the drawings. I sat in on the project meetings, saw that the world was not just black and white and that while engineering principals could and should not be compromised, with logical reasoning, solutions are usually obtainable.

As time went by, I eventually started handling my own projects from cradle to grave and provided a strong foundation upon which I have built my career on.

3. Describe the industry at that time.

Due to the energy crisis, while HVAC was a necessity in all buildings at that time, there were demands to be more precise in the designs, give thoughtful consideration to safety factors, bigger was no longer better or acceptable. Building envelopes were changing, Energy Conservation was prevalent. Time of day scheduling, duty cycling and demand limiting of the HVAC equipment were all being incorporated into the new HVAC designs.

4. How and when did you get started in ASHRAE?

I became a student member of ASHRAE while I was at college and attended meetings whenever I could. Once I was done with College and working at E.W. Hoffmann, all the project engineers were members of ASHRAE and most were involved in the board, committees etc. and one day I was asked by one of the project engineers if I had any interest in joining the board and one of the committees. My answer was simple and direct, yes, but only if I could be on the reception committee, I wanted to sit at the door, welcome the members as they arrived, extend my hand and tell them that I was Ron Kilcarr and that I was glad to meet them. I had felt that if they knew who I was, If I ever needed help, I stood a better chance of them taking my call and trying to help or offer advise. I think today they call it networking.

History (Cont'd. from page 16)

5. What was your ASHRAE chapter, regional and Society experience?

While I have been a student member of both the Long Island and the Rochester chapters, I have always called the Long Island chapter my home. I ascended through the officer chairs of the chapter and at 31 became the youngest Long Island chapter president in 1993. While president, our chapter worked extremely hard and were awarded with many Chapter awards at the 1994's Chapters Regional Conference (CRC), including the chapter Presidential Award of Excellence.

6. What were the major issues facing ASHRAE during your presidency?

The biggest challenge was obtaining new members, retaining existing members and enticing members to join the different committees. While money was an underlying issue it was a year in and year out issue.

7. What was your presidential theme?

Good Programs and Team work. If we had good programs of interest, members would want to come to the meetings. If the work needed to be done was accomplished by many in lieu of only a few, we would get much more involvement and more satisfaction out of what we were trying to accomplish and bring a sense of pride to the chapter.

8. What do you consider to be the major accomplishments during your term?

Leading the long Island chapter to obtaining the Presidential Award of Excellence, which involved meeting and/or exceeding all the Society (as well as own) goals such as increased membership, Research funding donations, program quality, student involvement, member participation, chapter publicity, history retention, etc.

9. Did any humorous events take place during your term?

Oh yes there were! And what happens at the CRC stays at the CRC.

10. Are there any things that you wish you could have done differently?

Yes, I wish I didn't put the idea of having a golf outing to a vote to a board that generally had no interest in golf.

11. What events have changed the industry since your presidency?

That's easy, innovation and DDC controls.

12. What has ASHRAE meant to you personally?

Throughout my career it has been a major source of invaluable information, whether it is the information available or the knowledgeable people whom I have been lucky enough to meet and associate with.

13. What advice would you give to a young person entering the HVAC field?

Join ASHRAE, attend the local meetings, join a committee, get involved and by all means stick your hand out and introduce yourself.

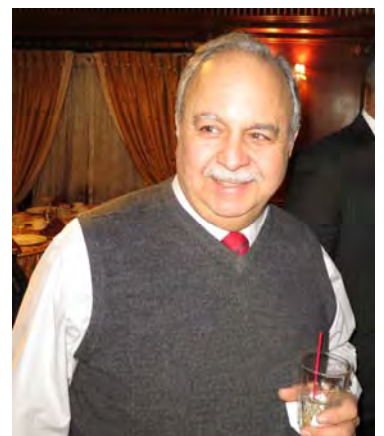
14. What other interests and/or hobbies do you have?

I really enjoy sports and sporting events. My two sons are heavily involved in competitive baseball and a lot of our time now is spent traveling to different Baseball events, tournaments and showcases throughout the eastern states.

However, I recently have started to dabble in a new hobby – College hunting.

James Hanna
History Chairman

February Meeting Pictures



February Meeting Pictures



ASHRAE Learning Institute Training - March 15 & 16, 2016**ASHRAE Learning Institute Training**

in conjunction with

Learn more and register at www.ashrae.org/cmpxcourses

Get in-depth training for real-world HVAC&R challenges from ASHRAE in conjunction with the 2016 Canadian Mechanical & Plumbing Exposition (CMPX) in Toronto. ASHRAE will present two courses including the new ASHRAE Standard 188-2015 course to practicing professionals in the HVAC&R industry. The courses are structured to help participants achieve defined learning objectives, and each attendee receives a course workbook and an ASHRAE certificate of attendance.

Tuesday, March 15, 2016**Commissioning for High-Performance Buildings****Time:** 2:00pm – 5:00pm**Cost:** \$184 (\$139 ASHRAE Member)

ASHRAE Guideline 0 is the focus of this course, which will present the defining characteristics of the ideal building commissioning process as expressed in this guideline. The course will explore the implications of employing the ASHRAE commissioning process for the acquisition of a high-performance building.

Instructor: [Walter Grondzik, P.E., Fellow/Life Member ASHRAE, LEED® AP](#)**Click here to Register:** http://xp20.ashrae.org/secure/ali/CMPX_2016/

Wednesday, March 16, 2016**ASHRAE Standard 188-2015 – Successfully Managing the Risk of Legionellosis NEW!****Time:** 9:00am – 12:00pm**Cost:** \$184 (\$139 ASHRAE Member)

Legionellosis is a health and safety concern for facility owners and operators, and for those who design, manage, and oversee building water cooling systems. This course describes the environmental conditions that promote the growth of Legionella in water systems, and where Legionella control measures can be applied in new and existing buildings. A comparison between general compliance and compliance for certain health care facilities will be provided.

Instructor: [Michael Patton, Member ASHRAE](#) and [William Pearson, Member ASHRAE](#)**Click here to Register:** http://xp20.ashrae.org/secure/ali/CMPX_2016/

ASHRAE is seeking papers for its 2017 Winter Conference in Las Vegas



Shaping Tomorrow's
Built Environment Today

ASHRAE is seeking papers for its 2017 Winter Conference in Las Vegas, Nev., Jan. 28-Feb. 1, 2017.

To submit a Conference paper abstract or a technical paper and for more information about the conference, visit www.ashrae.org/lasvegas.

"Today's HVAC&R profession is facing challenges unlike those from the past," Leon Shapiro, Conference chair, said. "The rapidity with which technology advances the modeling, design, equipment, systems, construction and operation of the buildings we deal with, along with the speed with which climate change is significantly altering the conditions around which we design, are creating problems for today's ASHRAE members. The conference seeks to address those problems."

The conference seeks papers on new tracks addressing design issues that are challenging the entire industry.

- The Water-Energy Nexus track highlights research in the relationship between water usage and energy systems. It also explores technologies and designs intended to reduce the gap between energy and water efficiency.
- The Advances in Mission Critical Design and Operation track highlights developments in mission critical facilities and the challenges of meeting increasing load demands while minimizing the impact on energy and water usage.
- The Climate Change and Its Effects on HVAC&R Design and Technologies track focuses on methods to increase building resiliency and facilitate climate adaptation.
- Energy Efficient Industrial Buildings and Life Safety spotlights energy efficiency in industrial buildings and how it can be achieved without compromising life safety considerations.

The conference also seeks papers on Fundamentals and Applications, HVAC&R Systems and Equipment, Commercial and Industrial IAQ and Building Operation and Performance: Meeting the Modeling Expectations.

ASHRAE offers two types of paper submissions:

Conference Papers: Abstracts due March 14, 2016. Upon acceptance, papers will be due July 6, 2016. These "final" papers undergo a single-blind review, are submitted as a PDF and have an eight single-spaced page maximum length.

Full Technical Papers, which are due April 18, 2016. Papers submitted for review must be both technically accurate and clearly written. These papers undergo a rigorous double-blind review and can be a maximum of 30 double-spaced pages.

www.ashrae.org/lasvegas

ASHRAE Golf Outing - Monday, May 23rd, 2016



17th Annual LI ASHRAE GOLF OUTING

Monday - May 23rd, 2016

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 30, 2016 (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 <input type="checkbox"/> Yes	= \$ _____
Sponsor Lunch:	\$ 500 <input type="checkbox"/> Yes	= \$ _____
Sponsor Reception:	\$ 500 <input type="checkbox"/> Yes	= \$ _____
Sponsor Prizes:	\$ 500 <input type="checkbox"/> Yes	= \$ _____
Sponsor Beverage Cart:	\$ 500 <input type="checkbox"/> Yes	= \$ _____
Sponsor Hole:	\$ 200 <input type="checkbox"/> Yes	= \$ _____

ASHRAE Golf Outing - Monday, May 23rd, 2016

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'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 be-

ASHRAE Golf Outing - Monday, May 23rd, 2016

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.

Spring 2016 Online Courses

Spring 2016 Online Courses

Learn at your computer with instructor-led online courses in real time from ASHRAE Learning Institute
CEU/PDH Credits Available





Register Early & Save

Register before March 18:

\$264 (\$199 ASHRAE Member)

Two-part Courses: \$464 (\$339 ASHRAE Member)

Register after March 18:

\$284 (\$219 ASHRAE Member)

Two-part Courses: \$484 (\$359 ASHRAE Member)

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Two Ways to Register

1. Internet

www.ashrae.org/onlinecourses

2. Phone

Call toll-free at
1-800-527-4723 (US and Canada) or
404-636-8400 (worldwide)

NOTE: You may register up to 24 hours prior to an online course.
Course times are in Eastern US Time Zone.

Earn Continuing Education Credits | Take 3 or More Courses & SAVE!

Courses are archived for a period of time after their initial presentation.

Commissioning

Commissioning Process & Standard 202

Wed, March 30, 2016, 1:00 pm to 4:00 pm, EDT

Instructor: Walter Grondzik, P.E., Fellow/Life Member ASHRAE, LEED® AP

Energy Efficiency

Combined Heat & Power: Creating Efficiency through Design & Operations (IAQ Practices)

Mon, March 28, 2016, 1:00 pm to 4:00 pm, EDT

Instructor: Lucas Hyman, P.E., Life Member ASHRAE, LEED® AP

IT Equipment Design Evolution & Data Center Operation Optimization

Wed, April 6, 2016, 1:00 pm to 4:00 pm, EDT

Instructors: Don Beaty, P.E., Member ASHRAE and Roger Schmidt, Ph.D., P.E., Member ASHRAE

Spring 2016 Online Courses

HVAC Applications

Air-to-Air Energy Recovery Fundamentals (ES Practices)

Wed, April 27, 2016, 1:00 pm to 4:00 pm, EDT

Instructor: Paul Pieper, P.Eng., Member ASHRAE

Laboratory Design: The Basics and Beyond

Mon, April 18, 2016, 1:00 pm to 4:00 pm, EDT

Instructor: John Varley, P.E., Member ASHRAE, HBDP, LEED® AP

Operations and Maintenance of High-Performance Buildings

Part 1 - Tues, May 17, 2016, 1:00 pm to 4:00 pm, EDT

Part 2 - Wed, May 18, 2016, 1:00 pm to 4:00 pm, EDT

(Registrants must attend both parts in order to receive credits)

Instructor: Laurie Gilmer, P.E., Member ASHRAE, LEED® AP

NEW! Variable Refrigerant Flow System Design & Applications

Mon, May 16, 2016, 1:00 pm to 4:00 pm, EDT

Instructor: Dermot McMorow, P.Eng., Member ASHRAE

Standards & Guidelines

Complying with Standard 90.1-2013: HVAC/Mechanical (ES Practices)

Wed, April 13, 2016, 1:00 pm to 4:00 pm, EDT

Instructor: McHenry Wallace, P.E., Member ASHRAE, LEED® AP

Exceeding Standard 90.1-2013 to Meet LEED® Requirements (ES Practices)

Part 1 - Mon, April 11, 2016, 1:00 pm to 4:00 pm, EDT

Part 2 - Wed, April 20, 2016, 1:00 pm to 4:00 pm, EDT

(Registrants must attend both parts in order to receive credits)

Instructors: McHenry Wallace, P.E., Member ASHRAE, LEED® AP and Joseph Deringer, AIA, Member ASHRAE, LEED® AP

Fundamental Requirements of Standard 62.1-2013 (IAQ Practices)

Mon, May 2, 2016, 1:00 pm to 4:00 pm, EDT

Instructor: Hoy Bohanon, P.E., Member ASHRAE, BEAP, LEED® AP

NEW! Standard 188.1-2015 – Successfully Managing the Risk of Legionellosis

Mon, April 25, 2016, 1:00 pm to 4:00 pm, EDT

Instructor: Michael Patton, P.E., Member ASHRAE

Note: Course fees listed are per person for a single presentation connection for individual use and may not be shared with other users. All registrants must individually register for the desired course to participate and receive continuing education credit.

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Shaping Tomorrow's
Built Environment Today

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Thank you for your support, and don't forget to look for your local ASHRAE chapter on Facebook, Twitter, and LinkedIn.

Thank you,
ASHRAE Marketing

PS: Did you know ASHRAE now has over 55,000 members? Thank you for helping to spread the word about ASHRAE! Questions? Email marketing@ashrae.org

Save-the-Date - ASHRAE Webcast - April 21, 2016

SAVE THE DATE! April 21, 2016 | 1–4 pm EDT

This webcast will feature industry experts who will define the importance of, and why we should strive for, net zero in the built environment. Viewers will be able to identify behaviors that create more effective ownership, design and construction teams, and will recognize the value of a collaborative process in building design and the impact on costs. With a strong emphasis on real-world applications, the program will also discuss the primary technical and financial challenges in achieving net zero buildings, and where this design approach can best be applied.

- Take advantage of the **two week On Demand period from April 22 – May 6** and schedule your viewing of the webcast around your time zone and schedule
- The On Demand player has fast forward and rewind capabilities — allowing you to view all or part of the program with your members
- Plan a lunch or dinner meeting with your Chapter to view the webcast
- Utilize the Net Zero Resources online to supplement the webcast program
- Earn 3 FREE PDHs
- Chapters who register to view the webcast will earn **100 PAOE points**

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. \$450 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 2017 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 cttc@ashraeli.org or call 631-574-4870.



ASHRAE CERTIFICATIONS

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