



May 2016

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

It looks like spring is finally here, with temperatures finally getting to 70 degrees. Hopefully, summer won't be far behind. If you have not signed up for this year's Golf Outing, please contact Peter Gerazounis immediately. May 23rd is the date; hope to see many of you there.

Thank you to Steve DiMeglio and the rest of the Diamond Blue Sheet Metal team for our field trip to their shop this April. It was very informative. As a consulting engineer, it was great to see the process that takes our design drawings and makes them reality.

This month we are back at Westbury Manor. We welcome James M. O'Donnell, P.Eng., CEM, LEED AP from Carrier who will be presenting on *Using Water-Cooled Chillers to Exceed ASHRAE Minimum Efficiency Standard by > 50%*. All attendees will receive 1 PDH.

Bill Artis and I are going to give a few minutes talk on serving on an ASHRAE Standards or Technical committee and let everyone know what's out there and how to offer your services. This is just one of the many ways you can support ASHRAE.

Please remember to send in your ballot for the 2016-2017 BOG. We issued the ballots electronically this year, but please mail them back per the instructions. Your participation in the elections is appreciated! I look forward to seeing everyone at the May Meeting and thank you for your continued support of the Long Island Chapter of ASHRAE.



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

CHAPTER MONTHLY MEETING

DATE:	Tuesday, May 10, 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.

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
Vice President	Don Kane, P.E.	631.737.9170	631.737.9171	vice_president@ashraeli.org
Financial Secretary	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	finsec@ashraeli.org
Treasurer	Richard Halley	718.269.3809	718.269.3725	treasurer@ashraeli.org
Secretary	Frank Paradiso	631.632.2791	631.632.1473	secretary@ashraeli.org
Board of Governors	Ken Mueller	201.395.3761	763.231.6924	bog1@ashraeli.org
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

ASHRAE 2015/2016 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	Charles Lesniak, P.E			programs@ashraeli.org
Membership	Ken Mueller	201.395.3761	763.231.6924	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			ggac@ashraeli.org
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Research Promotion	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	rp@ashraeli.org
Historian	James Hanna	718.269.3768	718.269.3794	historian@ashraeli.org
Student Activities	Richard Halley	718.269.3809	718.269.3725	sa@ashraeli.org
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
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	Bill Artis	201.395.3750		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	212.643.9055	212.643.0503	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 <i>Back to Basic Session I -</i> **1 PDH** <i>“Selecting and Designing Refrigeration Equipment Component Packages”</i>	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 <i>Back to Basic Session III –</i> **1 PDH** <i>“Design & Theory of Smoke Purge System Design”</i>
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  ANNUAL FIELD TRIP - 10:30 AM to 1:30 PM Blue Diamond Sheet Metal Inc. 1165 Station Road, Medford, NY 11763 Tour complimentary for all Members (lunch afterwards - pay your own way at Ruby Tuesday)
December 8, 2015 * At Westbury Manor  HOLIDAY PARTY Free Buffet Dinner for Members	May 10, 2015 * At Westbury Manor Dinner Presentation— Using Water-Cooled Chillers to Exceed ASHRAE Minimum Efficiency Standard by >50% Presenter: James M. O'Donnell, P.Eng., CEM, LEED AP **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 <i>Back to Basic Session II -</i> **1 PDH** <i>“The Rise of Variable Flow Primary and the Fall of Primary/Secondary/Tertiary Pumping Systems “</i>	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

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	135	250	980	400	905	1,325	175	4,170

May Program

Dinner Presentation

“Using Water-Cooled Chillers to Exceed ASHRAE Minimum Efficiency Standard by > 50% ”

Presented by

James M. O'Donnell, P.Eng., CEM, LEED AP
Carrier Corporation

**Attendees
Will Earn
1 PDH!**

DATE:	TUESDAY MAY 10, 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: <ul style="list-style-type: none"> • Describe the difference in part load operation between centrifugal and screw chillers. • Explain how condenser water temperature impacts screw and centrifugal operation and efficiency. • Explain how a screw chiller in a series-counterflow arrangement can provide savings over centrifugals in standard parallel arrangement. <p>All attendees will receive 1 PDH.</p>		
About our Speaker:	<p>Jim O'Donnell is the Regional Manager for Engineering Sales. He is responsible for managing, organizing and promoting sales within the engineering community. In addition, he works with Carrier University promoting and managing their educational and seminar series.</p> <p>Previously Mr. O'Donnell was a sales engineer for Carrier in Philadelphia, PA and Buffalo, NY. In addition, he has also worked at mechanical contractors, energy engineers, and consulting engineers on many different types of projects in variety of design/engineering/project management roles.</p> <p>His academic background comprises of a Bachelor of Science Degree in Mechanical Engineering from the State University of New York At Buffalo. He is a Professional Engineer in the state of New York, a Certified Energy Manager, and a LEED accredited professional.</p>		

Young Engineers in ASHRAE (YEA)

Happy spring, everyone. The summer is seemingly closer than ever. The Long Island chapter meeting on May 10th, 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.

Keep up to date with some upcoming YEA programs and events by 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.

Also, I am looking forward to creating another YEA social event towards the end of May. This event will most likely be held on a weeknight at Cozymel's in Westbury NY. Stay tuned for an email with the ironed out details for this social event.

We will be looking for more ideas for social events so please contact me if you have suggestions.

Hope to see you all out there.

Frank Paradiso
YEA Chairman



Research Promotion

As always, I would like to extend my sincerest thanks to you for your support of ASHRAE Research. More than 80 research projects worldwide received support from ASHRAE because of your investment. Society has raised approximately 1 million dollars of our 2.6 million. Or next goal is to reach 100% of goal prior to June 15th. We are ahead of last year's fund raising at this point of the year, but we still have a long way to meet our goal. If you haven't yet contributed please do.



Find out more with this Brochure <https://www.ashrae.org/File%20Library/docLib/RPBrochures/Research-brochure.pdf>.

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 78% of our goal.

INDIVIDUALS

Frank D Morgigno	Frank Paradiso
Michael Gerazounis, PE	Richard Halley
John D Nally	James Hanna
Andrew E Manos	Thomas Fields, PE
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
Evans Lizardos	Anthony Rosaco
Robert J Fuchs	

COMPANIES

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

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.

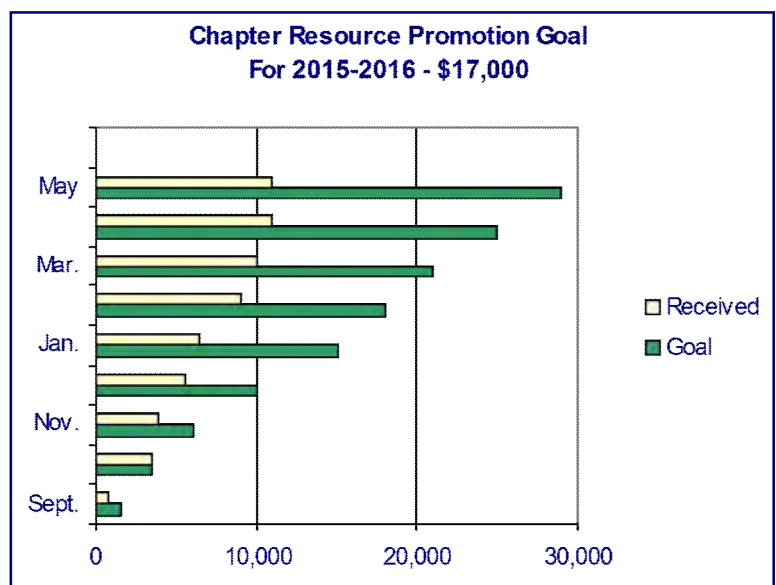
3) You can contribute via PayPal from the ASHRAE LONG ISLAND web site, just click on the donate button.

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 - GO WITH THE FLOW....OR....PERHAPS NOT!

As noted in these pages previously, we spend a significant portion of our time dealing with BTUs. Part of that time is dealt with finding ways to extract more BTUs from whatever energy source may be available (oil or gas, electricity, wood, solar, or wind...yes it's BTUs that are really driving those wind turbines). Once we have extracted this thermal energy, we then have to regulate and transport it to where it is needed (or away from where it is NOT needed). This journey will involve at least a few, and frequently many, heat exchangers. While, for example, the oil fired burner in the basement of a building will take the fuel input and provide heat output, it will be of little use in providing a comfortable environment if we do not employ myriad heat exchangers along the way.



These “exchangers of heat” may be as simple as an old cast iron radiator or as large and complex as a boiler which takes the heat of the burner and passes it off to a medium, usually fluid or vapor, which will transport the heat to the point of use. Likewise, without the heat exchanging capability of the evaporators and condensers installed in our comfort or process cooling applications, very little thermal change would take place! This month, therefore, we will say a few words about heat exchangers which, much like Rodney Dangerfield, do not always garner the respect they deserve. They generally just seem to sit there, whether in a mechanical room or in a piece of terminal equipment, thought of only when they leak or get fouled and do not deliver the requisite heat transfer.

What seems like a simple part of the system design can be complicated by constraining factors. What type of heat exchanger media will be used? Air-to-Air, liquid-to-air, air-to-liquid, vapor-to-liquid....the choices, while not boundless, certainly must address various design constraints, as well as physical and economic ones. Air side systems employ heat exchangers which may be liquid (or perhaps vapor) to air (such as fan-coil units) or air-to-air, such as energy and enthalpy recovery devices. Water side systems may employ liquid (or vapor) to liquid and may make use of plain water or glycol mixtures, where that portion of the loop will be exposed to freezing temperatures. Available space may be a concern. Is there enough room to install and maintain a heat exchanger, including space to remove tube bundles or plates if needed? The heat exchangers used in various applications vary greatly in size, appearance and configuration and, while air-to-air devices, especially energy/enthalpy recovery devices have to prevent cross contamination from leakage (or in the case of wheel type devices, factor that exposure into the need for possible downstream treatment) however, regardless of system or media, most can be categorized as either parallel-flow, counter-flow or cross-flow. How does one select from these categories? In most cases, the true counter-flow heat exchanger will exhibit the highest “efficiency” in extracting heat from one medium and transferring it to the other. This can be important as it will translate into reduced flow requirements (less pumping energy required), which will minimize pressure drop issues (and, again, reduce the pumping energy required). Additionally, when it is necessary that the “cold” fluid outlet temperature needs to be higher than the “hot” fluid outlet temperature, the counter-flow configuration is the configuration of choice. Keep in mind, though, a true counter-flow configuration may be difficult to attain, depending upon the physical arrangement of the component pieces, although use of plate type, spiral type and hairpin type exchangers will perform close to the theoretical model. Shell-and-tube exchangers, due to the usual inclusion of baffles in the internal shell fluid path, exhibit both parallel and counter-flow characteristics depending upon which cross-section of the exchanger is being examined (they may also incorporate cross-flow, but more on that later). Coaxial heat exchangers (straight pipe within a pipe), frequently used if fouling is anticipated to be a problem, may be configured as either parallel or counter-flow; however the available heat exchange “surface area” is limited, requiring either a larger size or an increase in the flow rate. A counter-flow, plate type exchanger would, in theory, present the ideal results, however, initially higher resistance, which will increase with fouling, due to the small channels, limits its use to specific applications where contamination is not an issue and the pumping losses are compensated for. A hairpin heat exchanger in a counter-flow configuration, will generally permit close to theoretical performance, and can accommodate thermal changes without internal damage.

So, when would parallel-flow be preferred? If a fast initial heat transfer rate is required, the maximum temperature difference between the “hot” inlet and the “cold” inlet would result in maximum heat transfer initially. If it is necessary that the two fluids are brought to similar outlet temperatures or if the “cold” outlet temperature needs to be limited, the parallel flow configuration would generally be the one of choice. Additionally, if an isothermal transfer (e.g. condensation of saturated steam) is taking place, the counter-flow configuration would hold no advantage.

CTTC - IF IT'S NOT BROKEN...KEEP IT THAT WAY (Cont'd. from Page 8)

What kind of metrics does one look for when selecting the configuration and size of a heat exchanger? A key indicator is the so-called Logarithmic Mean Temperature Difference (LMTD), a measure of the temperature difference along the pipes between the “hot” side and the “cold” side. As real world devices seldom meet the theoretical values, a “Corrected Mean Temperature Difference” (CMTD) is sometimes specified, which reflects correction factors for the heat exchangers’ actual performance.

While dwelling on the parallel and counter-flow designs, there are some heat exchangers configured in a “cross-flow” orientation, with the flow of one fluid, as the name implies, orthogonal to the flow of the other. The typical automotive radiator is an example of an air-liquid, cross-flow design. Cross-flow and counter-flow configurations are sometimes combined in an energy/enthalpy recovery device of the air-to-air type, to accommodate the separation of the airflows at the inlets and outlets.

When looking at the mechanics of heat transfer within the heat exchanger, one must account for flow rates (hot fluid and cold fluid), hot and cold fluid temperatures, possible turbulent flow (if liquid velocity is too great) and the conductive and convective transfer within the device. Typically, in a shell and tube exchanger; there is convective transfer from fluid to the inner wall of the tube, conductive transfer through the tube wall and convective transfer from tube outer wall to the fluid within the shell. While these transfers may be accurately modeled for “as-new” heat exchangers, actual performance may degrade over time if proper attention is not paid to water treatment (filtering, pH maintenance, dissolved oxygen removal and corrosion protection). For systems incorporating both ferrous and non-ferrous piping components, the corrosion protection task becomes more difficult as the treatments used for one may be deleterious to the other. In any case, systems which are not used year round need to be exercised from time to time to circulate the water treatment chemicals to all portions of the system, especially with regard to biological growth prevention to avoid Microbially Induced Corrosion (or microbiologically influence corrosion, depending upon who you are talking to) due to stagnant flow and bacterial growth.

Summing it all up, the choice of the type and configuration of heat exchanger to be specified will have to take into account many factors including; first cost, operating/replacement costs, available space, process constraints and heat transfer medium used. Allowances need to be made for anticipated degradation with time due to reduced flow. Only then can the “best” selection be made for that particular application to assure successful operation of the system.

Don Kane, P.E.

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

Membership

This is a particularly good month for Long Island ASHRAE members. We have the upcoming golf outing, which is always an excellent time to network with our members and their guests. If you are attending, please take the time to introduce yourself to a new member at the breakfast and the dinner. And hit 'em straight.

Please take some time to review your ASHRAE bio on www.ashrae.org. ASHRAE uses this information for all mailings, so keeping you bio up to date is vital to chapter operations.

As May will be our last technical meeting before our June installation dinner, I hope all members will consider attending. This is a good opportunity to get PDH credits before the summer. Please encourage potential new members to attend. We have had a good year and I look forward to a growing membership in the future.

Bill Artis
Membership Chairman

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-04-29-2016>



Senate Passes Comprehensive Energy Bill, Opening the Door for Possible New Law this Year

The Energy Policy Modernization Act is a comprehensive bill that includes many provisions of interest to ASHRAE, such as:

- Support for building energy codes
- The SAVE Act
- Allowing Federal disaster relief funds to be used for energy efficient structures and products (references Standard 90.1-2013)
- Formally establishing the WaterSense program
- Increases interagency coordination of activities related to the energy-water nexus
- Support for data center energy efficiency
- Reauthorization of the Weatherization Assistance Program and State Energy Program
- Workforce development, including the establishment of building training and assessment centers

"The passage of the Energy Policy Modernization Act demonstrates the power of persistent bipartisan leadership by many leaders throughout the Senate. Each of these Senators understands the need for reform and the dangers that lie ahead if we do not change," ASHRAE President David Underwood said in a [press release](#) that was issued shortly after the Senate passed S.2012. "This accomplishment is shared by hundreds of stakeholders who have connected with members of Congress, helping them understand the complexities and likely impacts of legislation on the building and many other industries. ASHRAE congratulates the Senate on this accomplishment and stands ready to assist as leaders in both chambers work to produce a final bill that the President can sign, and which truly advances the arts and sciences of HVAC&R to serve humanity and promote a sustainable world."

Grassroots Government Activities Committee (GGAC) Cont'd from Page 10

The next challenge is for the Senate bill to be combined with the North American Energy Security and Infrastructure Act (H.R.8), which passed the House last December, and contains a number of controversial provisions. The final combined bill would then be voted on once more by the House and Senate before going to President Barack Obama for his signature or veto.

The long path left have some nervous that not enough time remains this year to get everything done, which would force the entire process to start over, with the added complication of a new President and Members of Congress, and the possibility that both bills could be completely derailed.

High Performance Building Coalition Holds Congressional Briefing on Funding Priorities

The High Performance Building Coalition held a briefing on Capitol Hill last week on the Coalition's Appropriations Priorities for Fiscal Year 2017. The briefing was attended by a number of congressional staff and stakeholder organization representatives. The event featured presentations by:

- Kevin Kampschroer, GSA Chief Sustainability Officer and Senior Climate Change Adaptation Official, Federal Director, Office of Federal High-Performance Green Buildings
- John Pouland, Vice President, Government Affairs and Solutions, Philips
- Christopher Lindsay, Manager, Government Relations, The IAPMO Group
- The High Performance Building Coalition is a coalition of approximately 200 organizations and companies that provides guidance and support to the High Performance Building Caucus of the US House of Representatives. Additional information on the Coalition is available at www.hpbccc.org.

Final Determination on Portable Air Conditioners Issued by DOE

DOE has issued a final determination classifying portable air conditioners (ACs) as a covered product under the Energy Policy and Conservation Act (EPCA), as amended. DOE has determined that classifying portable ACs as a covered product is necessary or appropriate to carry out the purposes of EPCA (which include conserving energy and improving the energy efficiency of major appliances and certain other commercial products), and that average US household energy use by AC is likely to exceed 100 kWh per year. As a result, portable ACs will now be subject to energy conservation standards. The rule goes into effect on May 18, 2016.

State of New York Issues Notice of Permanent Rulemaking on Legionella

After months of operating under an emergency rule on Legionella, the State of New York (in the New York Register published April 20, 2016) has given notice of permanent rulemaking, "Protection Against Legionella." The proposed rule can be found starting on page 3 through page 5 of the Register at the link below:

<https://www.billtrack50.com/RegulationDetail/1002951/1065>

ASHRAE Standard 188-2015 is mentioned by name though it does not adopt the Standard by reference. Additionally, no public hearing is scheduled at this time. The new rule is scheduled for adoption 45 days from the date of publication of this register (which is on or about June 4).

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

History

Did you know the first practical through the wall air conditioning unit was invented by engineers at Chrysler Motors and offered for sale starting in 1935?

A Packaged Terminal Air Conditioner (often abbreviated PTAC) is a type of self-contained heating and air conditioning system commonly found in hotels, motels, senior housing facilities, hospitals, condominiums, apartment buildings, add-on rooms & sunrooms. Many are designed to go through a wall, having vents and heat sinks both inside and outside. Different standard dimensions are found in the market including 42x16 inches, 36x15 inches, and 40x15 inches.



Although PTACs are used mostly to heat or cool a single living space using only electricity (with resistive and/or heat pump heating), there are cooling-only PTACs with external heating through a hydronic heating coil or natural gas heating. Typical PTAC heating and cooling capacity values range from 2 to 5.5 kilowatts (7,000–19,000 BTU/h) nominal. One characteristic of PTACs is that condensate drain piping is not required because the condensate water extracted from the air by the evaporator coil is drawn by the condenser fan onto the condenser coil surface where it evaporates. Conventional PTACs still require condensate drain piping to be installed.

James Hanna
History Chairman

Student Activities

Well it's that time of year again when our students are very busy closing out their school year and getting prepared for final exams.

The Long island Student Chapters are also getting ready to end the year and start the preparation to hand off the baton to the next round of officers and future leadership.

I have been receiving scholarship applications and will be presenting the 2016 slate to the ASHRAE LI Board of Governor's to review and select this year's winners.



We wish the best of luck to the Stony Brook Chapter as they put the final touches on their design project and we look forward to a good result in their endeavor.

As always we are working with Students and Employers to connect those looking for summer employment or summer and or full time positions. If you are in need of help and would like to consider one of our students please contact me and rchalley@trane.com

Richard Halley
Student Activities Committee Chair

ASHRAE: Lowest Rates Available for Annual Conference



Register today for the ASHRAE Conference in St. Louis. Take advantage of the opportunity to discuss and examine the latest topics in the building industry and earn professional development credits. Hotels are filling up quickly!

[Register before rates increase on April 27. You can register at \[www.ashrae.org/stlouis\]\(http://www.ashrae.org/stlouis\).](http://www.ashrae.org/stlouis)

The technical sessions offer an excellent opportunity to learn the results of cutting-edge research and the latest standards that affect the built environment. Topics include nearly every technology used in HVAC&R including alternative refrigerants, fire and smoke control, smart control systems and sources and efficient utilization of renewable energy. In addition, learn the personal and business skills necessary to become and remain a leader in our industry.

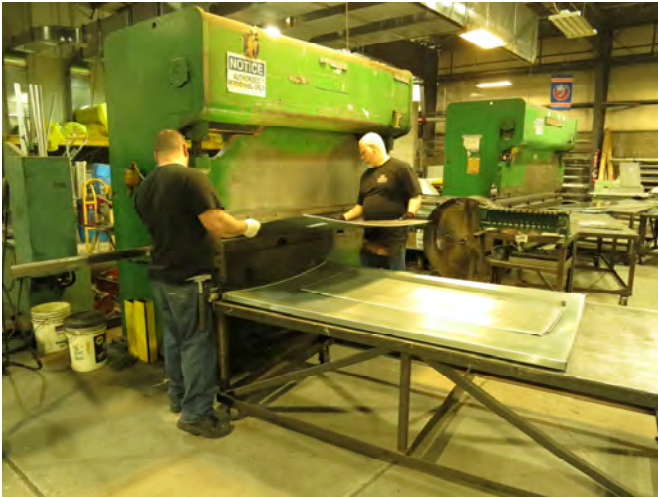
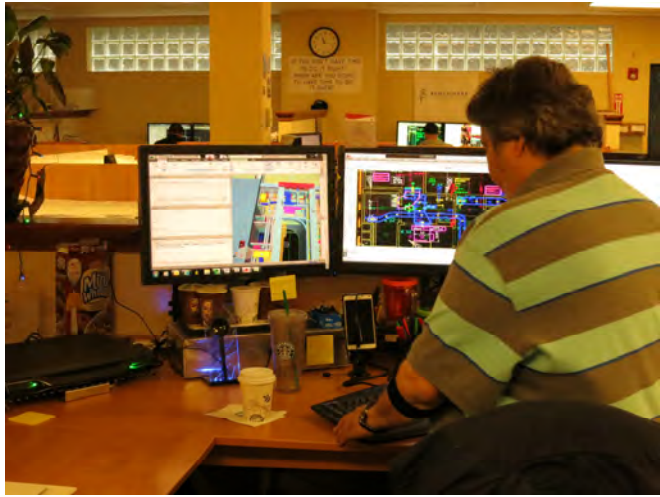
The Technical Program features eight tracks, 108 sessions and more than 400 speakers. The program offers over 130 Professional Development Hours, as well as Continuing Education Units, which can be applied toward a Professional Engineering license, including the state of Florida, AIA LUs and LEED AP credits. Check out the new interactive Technical Program to find the topics, sessions and speakers of most interest to you! Featuring options to search by track, program type, date and keyword, the interactive Technical Program provides a detailed look at each session from color-coded tracks to sponsoring committees. Access, browse and bookmark the feature on your computer, tablet or smartphone.

[The interactive Technical Program is available at \[www.ashrae.org/stlouisinteractivetechprogram\]\(http://www.ashrae.org/stlouisinteractivetechprogram\).](http://www.ashrae.org/stlouisinteractivetechprogram)

Technical Program	
Browse/Search	2016 ASHRAE Annual Conference: Tracks
Browse by Day	ADVANCES IN REFRIGERATION SYSTEMS AND ALTERNATIVE REFRIGERANTS
Browse by Program	FUNDAMENTALS AND APPLICATIONS
Track Index	HVAC SYSTEMS AND EQUIPMENT
Presenter Index	INDOOR ENVIRONMENT: HEALTH, COMFORT, PRODUCTIVITY
	PROFESSIONAL SKILLS BEYOND ENGINEERING
	RENEWABLE ENERGY SYSTEMS AND NET ZERO BUILDINGS
	RESEARCH SUMMIT
	SMART BUILDING SYSTEMS/REMOTE MONITORING AND DIAGNOSTICS

Can't attend the Conference but want to tap into the technology? [Check out the Virtual Conference option for the 2016 Annual Conference as well as previous ones.](#)

April Field Trip Pictures - Blue Diamond Sheet Metal Inc.



April Field Trip Pictures - Blue Diamond Sheet Metal Inc.



ASHRAE Webcast Pictures - Making Net Zero Positive (April 21, 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:

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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.

ASHRAE Fishing Trip - Friday, June 3, 2016

Come Join Us!



ASHRAE Long Island Chapter's Fishing Trip 2016

Date/Time

Friday, June 3rd, 2016

4:00 p.m. – 8:00 p.m.

(Please be at the dock at 3:30 p.m.)

Location

Dixie II @ Captree State Park Boat Basin, NY

Fee

\$50 per person

(Maximum of 50 people)

Food, Beverages, Bait & Tackle will all be provided

Please RSVP by May 20th, 2016

andym22@optonline.net

Sponsored by:



Directions to the Boat: Take Southern State Parkway to Exit 40 South Robert Moses Causeway South. (Ocean Beaches). Continue South on Robert Moses Causeway (over two bridges) follow the signs for Captree State Park Boat Basin. Dixie II is located on the east end of the parking lot near the bait store.

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)

Take three or more courses and save 15%

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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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 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



Dear ASHRAE Member,

Take advantage of current, low certification application fees through June 30. After staying the same for nine years, fees will increase beginning July 1. After you apply, you have three months to schedule and sit for your exam - so why wait?! [Learn More.](#)

Also, per a recently adopted policy, non-native English speakers are now eligible to receive an additional 30 minutes of testing time. When applying, if you are a non-native English speaker, simply choose this option on the application.

If you'd like to learn more about the value of ASHRAE's six certifications, check out what Cara Martin, BEMP, and other ASHRAE certificants have to say.



Looking forward to receiving your application!

Sincerely,

Erin Dupree
Certification Coordinator
Tel: 678-539-1113

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Rates (includes all issues September-June):

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