

January 2019

THE LONG ISLAND SOUNDER



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

www.ashraeli.org

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

Inside this issue: **President's Message** LI Chapter Officers 2 **Meeting Schedule** 3 **December Meeting Pictures** 4-5 LI Past Presidents 6 PAOE 6 **Program** YEA 8 **Research Promotion** 9 Membership 10 **Student Activities** 10 **CTTC** 11-12 Refrigeration 12 **GGAC** 13 **History** 14 **BOG Minutes** 15-17 **ASHRAE Social Media** 18 **ASHRAE Certifications** 19 20-22 **Advertisements**

President's Message

Welcome to the January addition of the Long Island Sounder. On behalf of the Chapter Board of Governors I would like to wish you all a Very Healthy and Happy New Year.

It's hard to believe that 2018 is already in the books and we are already starting the 2019 calendar year. We are truly blessed to be in an industry that is constantly growing and changing. These changes can produce incredible challenges as we digest the new and improving technologies and the impact they can have on our profession as well as our clients businesses. Increased efficiency and overall improvements to the environment are an absolute must and can be truly overwhelming to the design professional. Part of our ASHRAE mission is to provide you with monthly presentations



on current topics that help you stay on the cutting edge of the changing world.

I would like to thank all who attended our Holiday Party and dual presentations during our December meeting. We had a great turn out as we enjoyed some "Holiday Cheer" and learned about innovations in (1) Commercial Gas Detection and (2) The Effect that Inadequate Hydronic Balancing can have on systems resulting in low delta T

This month's meeting we will have Kyle Bottorff presenting the newest changes in Condensing Boiler Combustion Technologies. This presentation is PDH approved.

CHAPTER MONTHLY MEETING

DATE:	Tuesday, January 8, 2019
TIME:	6:00 PM - Cocktails/Dinner 7:00 PM - Dinner Presentation 8:45 PM - Conclusion
LOCA- TION:	Westbury Manor 1100 Jericho Tpke. Westbury, NY 11590
FEES: Members - Guest - Student -	\$45.00 \$60.00 \$15.00

Check the ASHRAE Website for Society news and to join/renew membership!

http://www.ashraeli.org

Our committees are firing on all cylinders and as always we are looking for volunteers to join our team. I know Andy Manos has been working hard on the product directory and it will be going to print shortly. I hope you are able to take advantage of this great tool for find local products and resources. We are also looking into other corporate opportunities such has product show cases and meeting sponsors to help support our chapter and RP goals.

As you already know January 14th-16th is the winter meeting for ASHRAE and the 2019 AHR show held in Atlanta Georgia. What you may not know is next month has an Engineers Week. This year's Engineers Week theme celebrates you—engineers, engineering students, and technicians—and all of the amazing things you do every day to make the world a better place. Our local EJCLI chapter will be having a one day seminar in February with multiple opportunities to gain PDH credits as well and I will let you know more shortly. You can also learn more about National Engineers Week by Contacting Andy Manos

Once again thank you to all the volunteers and board members I appreciate all your time and dedication to our chapter and community. I look forward to seeing you all at the meeting and if you can bring a friend and introduce them to our chapter it really is a great group to be a part of and I thank you for that.

Warmest Regards

Rich Halley President - Long Island Chapter

Long Island Chapter Officers & Committees

ASHRAE 2018/2019 OFFICERS

POSITION	NAME	PHONE	EMAIL
President	Richard Halley	516.490.1616	president@ashraeli.org
President-Elect	Frank Paradiso	631.632.2791	president_elect@ashraeli.org
Vice President	James Hanna	718.269.3768	vice_president@ashraeli.org
Financial Secretary	Bill Artis	516.732.2519	finsec@ashraeli.org
Treasurer	Matthew Vitrano	212.643.9055	treasurer@ashraeli.org
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Board of Governors	Michael Nigro	212.643.9055	bog1@ashraeli.org
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Board of Governors	Andrew Blom	631.626.1695	bog3@ashraeli.org
Board of Governors	Michael Razzano	516.805.3084	bog4@ashraeli.org
Board of Governors	Andrew B. DuBel, PE	516.484.1020	bog5@ashraeli.org

ASHRAE 2018/2019 COMMITTEES

COMMITTEE	NAME	PHONE	EMAIL			
Programs & Special Events	Frank Paradiso	631.632.2791	programs@ashraeli.org			
Membership (MP)	Bill Artis	516.732.2519	membership@ashraeli.org			
Refrigeration	Michael Razzano	516.805.3084				
Chapter Technology Transfer (CTTC)	Donald W. Kane, PE Michael Nigro	516.524.7258 212.643.9055	cttc@ashraeli.org			
Grassroots Government Activities (GGAC)	Andrew Blom	631.626.1695	ggac@ashraeli.org			
Newsletter Editor	Liset Cordero	212.643.9055	editor@ashraeli.org			
Research Promotion (RP)	Andy Manos	631.632.2792	rp@ashraeli.org			
Historian	Elizabeth Jedrlinic	516.490.1621	historian@ashraeli.org			
Student Activities (SA)	Frank Paradiso James Hanna	631.632.2791 718.269.3768	sa@ashraeli.org			
Young Engineers in ASHRAE (YEA)	Elizabeth Jedrlinic	516.490.1621	yea@ashraeli.org			
Webmaster	Bill Artis	516.732.2519	web@ashraeli.org			
Nominating	Michael Gerazounis, PE, LEED AP	212.643.9055	nominating@ashraeli.org			
Reception & Attendance	Matthew Catan	407.489.6684	reception@ashraeli.org			
PR & Engineering Joint Council of LI (EJCLI) Liaison	Andrew Manos, LEED AP	631.632.2792	pr@ashraeli.org			
Golf Outing	Peter Gerazounis, PE LEED AP	212.643.9055	golf@ashraeli.org			
Awards	Brian Simkins	203.261.8100	bsimkins@accuspecinc.com			
ASHRAE LI, P.O. Box 79, Commack, NY 11725						

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Chapter Monthly Meeting - Program for	2018/2018
September 11, 2018 * At Westbury Manor	March 12, 2019 * At Westbury Manor
Dinner Presentation – Adiabatic Cooling Solutions Presenters: Robert Gebhard, Michael Silverstein, Alex Schafer **1 PDH**	Dinner Presentation - TBD Presenter: **1 PDH**
Refrigeration Night	YEA Night
October 9, 2018 * At Westbury Manor	April 9, 2019
Dinner Presentation— Refrigerants Presenter: William E. Dietrich **1 PDH**	Annual Field Trip
November 13, 2018 * At Westbury Manor	May 6, 2019 * Cherry Valley Club, Garden City, NY
Dinner Presentation System Effect Presenter: Mark Terzigni **1 PDH**	ANNUAL GOLF OUTING
Joint meeting with SMACNA Membership Promotion Student Activities Night and YEA Night Resource Promotion Night	
December 11, 2018 * At Westbury Manor	May 7, 2019 * At Westbury Manor
Dinner Presentation Eliminating the High Cost of Over Pumping / Commercial Gas Detection System Overview & Application Presenters: Robert J. Rybka / Ronald Sweet	Dinner Presentation - TBD Presenter: **1 PDH**
1 PDH	Refrigeration Night Student Activities Night
January 8, 2019 * At Westbury Manor	June 11, 2019 * At Westbury Manor
Dinner Presentation— Condensing Boiler Combustion Technologies	Free Buffet Dinner for Members
Presenter: Kyle Bottorff **1 PDH**	PAST PRESIDENTS NIGHT & OFFICER INSTALLATION STUDENT SCHOLARSHIPS TO BE AWARDED ASHRAE History Quiz and prize Give-A-Ways
January 20-24, 2019	June 8, 2019 (4pm-8pm) * Dixie II @ Captree State Park Boat Basin, NY
ASHRAE Winter Meeting Chicago, IL	ANNUAL FISHING TRIP
February 12, 2019 * At Westbury Manor –	June 14, 2019
Dinner Presentation— Presenter: **1 PDH**	Joint YEA Event with LI, NYC & Westchester (Details to follow)
Membership Promotion Night Resource Promotion Night	
February 18-24, 2019	August 15-17, 2019
NATIONAL ENGINEERS WEEK	CHAPTERS' REGIONAL CONFERENCE (CRC) REGION I
EJCLI Seminars	

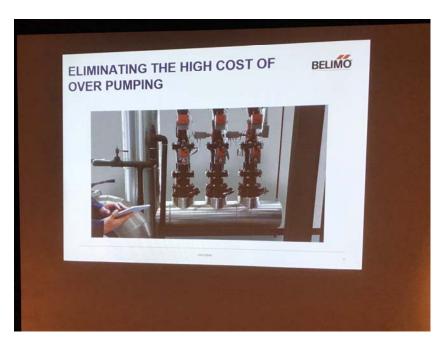
December Meeting Pictures







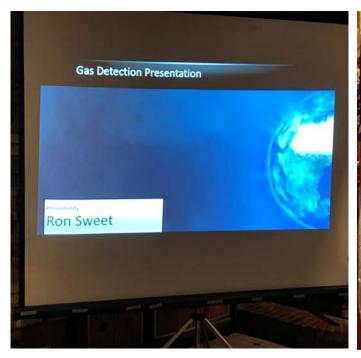




December Meeting Pictures









Lon	g Island Chapter -	Pas	t Presidents
1958	H. Campbell, Jr. PE	1988	Michael O'Rouke
1959	Clyde Alston, PE	1989	Mel Deimel
1960	Sidney Walzer, PE	1990	Robert Rabell
1961	Sidney Gayle	1991	Gerald Berman
1962	William Kane	1992	Donald Stahl
1963	Louis Bloom	1993	Ronald Kilcarr
1964	Milton Maxwell	1994	Jerald Griliches
1965	Will Reichenback	1995	Walter Stark
1966	Joseph Minton, PE	1996	Joe Marino
1967	Irwin Miller	1997	Norm Maxwell, PE
1968	Walter Gilroy	1998	Alan Goerke, PE
1969	Charles Henry	1999	Frank Morgigno
1970	William Wright	2000	Michael Gerazounis, PE, LEED AP
1971	Louis Lenz	2001	Ray Schmitt
1972	Ronald Levine	2002	Steven M. Stein, PE
1973	Henry Schulman	2003	Andrew Braum, PE
1974	Myron Goldberg	2004	Claudio Darras, P.E.
1975	John N. Haarhaus	2005	Craig D. Marshall, P.E.
1976	Richard K. Ennis	2006	John Nally
1977	Kenneth A. Graff	2007	Peter Gerazounis, PE, LEED AP
1978	Evans Lizardos, PE, LEED AP	2008	Steven Friedman, PE, HFDP, LEED AP
1979	Albert Edelstein	2009	Steven Giammona, P.E., LEED AP
1980	Ralph Butler	2010	Nancy Román
1981	Robert Rose, PE	2011	Carolyn Arote
1982	Timothy Murphy, PE	2012	Brian Simkins, LEED AP
1983	Leon Taub, PE	2013	Andrew Manos, LEED AP BD+C
1984	Raymond Combs	2014	Richard L. Rosner, P.E.
1985	Edward W. Hoffmann	2015	Thomas J. Fields, P.E., LEED AP
1986	Jerome T. Norris, PE	2016	Donald Kane, P.E.
1987	Abe Rubenstein, PE	2017	Andrew Dubel, P.E., LEED AP

PAOE POINTS FOR 2018/2019									
Chapter Members	Chapter Operations	СТТС	Electronic Communications	GGAC	Historical	Membership	Research Promotion	Student Activities	Chapter PAOE Totals
282	845	575	50	800	350	225	780	100	3,725

January Meeting Program



Dinner Presentation

"Condensing Boiler Combustion Technologies"

Presented by

Kyle Bottorff
Product Manager
Fulton Heating Solutions



DATE:	TUESDAY JANUARY 8, 2019					
Time:	6:00 PM - Cocktails and Hors D'ouevres 7:00 PM - Dinner Presentations 8:45 PM - Conclusion	Fee:	\$ 45.00 Member \$ 60.00 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 explores the fundamentals of combustion, excess air, and NOx emissions and the types of burner styles utilized. The course also compares and contrasts the different combustion control platforms available on the market, the unique benefits of each, and why precision combustion control results in lower emissions, reliable ignition, higher combustion efficiency, and greater condensing potential. All attendees will receive 1 PDH.					
About our Speaker:	Kyle Bottorff is Product Manager at Fulton Heating Solutions, Fulton's condensing boiler manufacturing company. He is a graduate of Syracuse University's L.C. Smith Mechanical Engineering program. Kyle is responsible for ensuring Fulton offers commercial heating products and services as desired by customers and driven by overall market needs. This also includes new product releases and major product updates for the ultra-high efficiency hydronic product lines, product literature, marketing, engineering support, technical and professional development presentations, heating and process systems design, and education of proper product application to maximize both boiler and overall system efficiency. Kyle is located at Fulton's Running Ridge Rd, Syracuse NY offices. He may be reached at (315) 298-8510 or					

Young Engineers in ASHRAE (YEA)

Happy New Year Everyone!

We have some really amazing YEA events planned for 2019. Keep your eyes out for the announcements.

The winter conference is right around the corner. Make sure to stop by the Young Engineers in ASHRAE (YEA) Hospitality Suite, Sponsored by Bell & Gossett. Young professional members age 35 and younger are invited to visit the YEA Hospitality Suite. The suite offers social and networking opportunities, and light refreshments are served.

YEA Leadership Weekend Registration is Now OPEN

Portland, Oregon - March 15-17, 2019

Are you interested in expanding your knowledge, meeting fellow engineers and having some fun along the way? Look no further than YEA Leadership Weekend! YEA Leadership Weekend is an opportunity for you to learn more about Society, develop soft skills and network with other young professionals. Over 600 YEA members have already taken advantage of this great opportunity.

Link to Register below. Please reach out to me with any questions. I have attended both leadership weekends and found them to be amazing opportunities.

https://fs12.formsite.com/ashrae/form47/index.html

Next YEA Event: GO KARTS

Our next YEA sponsored event will be Go Karts at RPM Raceway in Farmingdale. We have two races reserved! In the first race you will get your trial time, which will determine your spot for the final, trophy race. The winner will receive a trophy. All are welcome! Bring your family and friends! This event is a lot of fun and a great way to bring some competition to the end of the work week! Please RSVP to me as soon as possible.

When: January 31, 2019

Time: 6 PM

Where: RPM Racetrack

40 Daniel St, Farmingdale, NY 11735

Cost: \$40 / per person to drive

Elizabeth Jedrlinic YEA Chair

Elizabeth.jedrlinic@trane.com

Research Promotion

I would like to thank the companies who have participated in the annual 2019 Product Directory of Manufacturers and their Representatives.

The Product Directory has been prepared as a service to all its members and as a service to the local HVAC industry. It will be will be made available to all ASHRAE and non-ASHRAE members at no-cost and can be obtained from our monthly meetings or directly from our website. There's still time if you would like your company listed in the directory please contact me.

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



This year's overall resource promotion goal is \$2,500,000 with over 75 research projects on board. Our chapter is expected to raise approximately \$19,950 towards the overall goal of which we have already raised \$6390. I am hoping I can count on the continued support of all of our past contributors who have generously supported us over the years.

I also look forward to gaining the support of new contributors this coming year. Please help support ASHRAE in any way you can. I would like say 'thank you' to all the contributors listed below whom have already donated to ASHRAE this year:

INDIVIDUALS

Ronald J Kilcarr, PE, CEM Peter Gerazounis. PE Michael Gerazounis, PE John D Nally Andrew E Manos William Artis, Jr Michael Nigro Matthew Vitrano Donald Kane, PE Elizabeth Jedrlinic Frank Paradiso Richard Halley Murat Bayremoglu

Robert Fuchs Andrew Dubel Charles Lesniak PE **Brian Simkins** Andrew Blom Thomas Fields Kenneth Mueller Richard Halley

COMPANIES

Catan Equipment Sales Accuspec, Inc. Gil-Bar Industries, Inc. Trane **ASAP Sales**

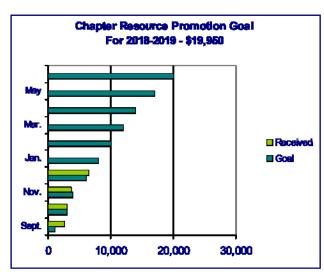
CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

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

Andrew Manos, LEED AP BD+C ASHRAE Research Promotion Chair c/o Stony Brook University Campus Planning, Design and Construction Research and Support Services, Building 17, Suite 160 Development Drive, Stony Brook, NY 11794-6010 2) You can bring your check to any of the meetings and give it

- to me. I will mail it into headquarters.
- 3) You can contribute via PayPal from the ASHRAE LONG ISLAND web site, just click on the donate button.
- 4) You can contribute directly on-line. www.ashrae.org
- * Please make sure you accredit your contribution to the LONG ISLAND CHAPTER 006 *

Thank you again for all of your support!



Andrew Manos, LEED AP BD+C Research Promotion Chair

Membership Promotion

Welcome to the Membership Promotion section of the newsletter. Our MP Committee is responsible for recruiting and retaining members of ASHRAE Long Island, and to ensure our members are receiving value for their membership. Throughout the year, we will be hosting numerous meetings and events for our members to encourage professional development and networking. We will be using our MP Blog to update the chapter on all of our events, as well as posting information regarding chapter updates, and recognizing member achievements.

http://www.ashraeli.com/blog

Bill Artis Membership Chair



Student Activities

Happy New Year from Student Activities. This month will be an exciting one, especially considering the 2019 ASHRAE Winter Conference and AHR Expo. Be sure to look towards the Student program for information and events occurring at this years' and future winter conferences.

Student members of ASHRAE can benefit from the student newsletter found in the student zone section of ASHRAE's website. Information about competitions, student activities, educational resources and news can also be found on the website.

Another great resource in the student zone is the ASHRAE Course: Benchmarking and Assessment of Building Energy Performance.



ASHRAE has developed a new university course on building energy auditing and analysis using the ASHRAE Building EQ rating system as a learning framework. Unlike other ASHRAE educational products that focus on continuing education of industry professionals, this course is designed as a traditional three-credit college course for upper-level undergraduate or graduate students. It seeks to offer a project-based learning experience through hands-on engineering in real buildings under the guidance of both academic instructors and industry professionals.

The course involves ten weeks of classroom instruction followed by five weeks of hands-on field work in teams under the guidance of local industry mentors. The course is intended to revolve around a representative campus or community building for each student team that will provide the focus for the underlying technologies and techniques and the practical field studies.

It is expected that the students will have previous coursework in both thermal sciences (or building physics) and building mechanical/electrical systems. Potential students could be in engineering, engineering technology, architecture, construction management, or environmental studies.

For student members who are approaching graduation, the Smart Start Program could be a great benefit. SmartStart is a 3-year program that allows Student members to transfer to Associate grade membership at a rate that is recent-graduate friendly. Year 1: \$21, Year 2: \$79, Year 3: \$105.

*Please note that the SmartStart program is only for current ASHRAE Student members who have been a Student member for at least one year.

Frank Paradiso
Research Promotion Chair

James Hanna Research Promotion Chair

CTTC

BOILERS, EMISSIONS AND CONTROLS – THE CONDENSED VERSION

In our everyday existence, we have been conditioned to accept that- bigger is better than smaller, more is better than less and (in terms of comfort heating) hotter is better than cooler. In turns out that; at least for vehicles, food and boilers, this does not always hold true. In fact, when dealing with heating systems, in many cases more efficient use of fuel is achieved through lowering the hydronic temperatures of the system, to recover the (otherwise lost) latent heat of vaporization as well as to reduce the boiler jacket losses. However (as is the case with vehicles and food) less is not always the solution. The answer to when it IS the solution will depend upon the configuration of the hydronic system (and if it is a new installation or a retrofit, using some or all of the existing system piping and radiation) and the level of control which can be exercised over the system operation, as well as economic analyses of cost vs benefit.

In a conventional (non-condensing) system, approximately 10% of the heat content from the fuel is lost up the flue in the form of water vapor, while another 3% to 5% may be lost by jacket rejection into the boiler room. The heat of vaporization, which changes the liquid water to water vapor, can be recovered by using a condensing type boiler, however it will entail much more than merely a change in water temperature setpoint. Some older existing boilers might be capable of operating in a condensing mode, generally with a change in heat exchanger (to a material that can stand up to the corrosive condensate that will be generated as the water vapor is condensed to liquid) and a change in set



points, though the economics may favor replacement with a unit designed for condensing operation. As most applications of condensing boilers are ones which are trying to achieve overall building (heating) efficiency, many times dedicated outside combustion air piping is needed (to prevent using conditioned building air). When using smaller diameter piping for the combustion air supply, it is necessary to take steps to prevent blockage from animal nests and natural occurrences (snow and/or flooding rain). In many cases the location of the combustion air intake (as well as the boiler venting flue) will be predicated by local codes. In most cases existing masonry flues will not hold up under the acidic conditions resulting from the condensing mode operation and, if to be used, will have to have a suitable acid resistant liner installed. Again, the economics may favor the installation of new flue piping and, in some cases, it will be convenient to use a coaxial type (tube within a tube) flue pipe which can handle both the combustion air requirements as well as the boiler venting. Pitch of the flue piping should promote drainback of any condensate towards the boiler to prevent accumulating in the piping and to facilitate collection and disposal. While CPVC and ABS piping has been used in some cases for flue venting, local codes (especially where the piping manufacturer specifically indicates that the material is not to be so used) and boiler manufacturer's instructions may prohibit its use. Typically, a corrosion resistant stainless steel would be preferred if long life is desired. While the flue gas temperature during normal operation of the condensing boiler will be lower than the softening point of most plastic piping used (though marginally so for PVC), should there be an anomalous operating event which results in an overtemperature condition, deformation of plastic piping could impeded proper flue gas flow and, possibly, result in high Carbon Monoxide (CO) levels to be generated. Most plastic piping will, as well, require protection from sunlight (UV) degradation and physical damage due to cold-induced brittleness. In addition to providing for proper combustion air and flue gas discharge, the condensate resulting from the latent heat extraction needs to be disposed of. In general, this condensate (due to its acidic composition) cannot be directly discharged to the outside nor discharged to a sanitary drain, without pre-treatment to neutralize the acidic nature. On the flue gas side, requirements for limited NOx discharge will require precise control of the combustion process to assure the proper (limited) excess air is supplied. Of the three main ways that NOx is formed during operation of a combustion device (thermal, prompt and fuel), for natural gas (and LPG) boilers, thermal NOx is the primary concern. By controlling the excess combustion air between 20-25%, the combustion temperature can be limited to reduce the formation of NOx. If residual fuel oil, waste oils or coal is used to fire the boiler, Fuel NOx needs to be considered, which may require Selective Non-Catalytic Reduction (SNCR) or, for higher levels of NOx, Selective Catalytic Reduction (SCR) post treatment of the flue gas. Before we leave the boiler room, it should be noted that for any boiler with dedicated supply air piping (condensing or non-condensing) carbon monoxide (CO) detection becomes even more critical, as any blockage of the air intake piping could starve the boiler for air and result in increased CO levels. Detection of high CO levels (or restricted flow in the air supply) should result in a shutdown of the boiler and annunciation of the fault condition.

CTTC

Now that we have a condensing boiler, with proper supply air and flue gas piping installed, a control system capable of precisely maintaining the proper combustion conditions for emissions compliant operation and protection against anomalous conditions, we look toward the load that is being supplied. While it is possible to install and operate a condensing boiler with a conventionally configured and piped system, unless one can bring the return water supply to 130 degrees F or below, the boiler will not operate as a condensing boiler and none of the economic advantages of that operation will be achieved. However, what this means is that if one has a system which will operate in condensing mode most of the time but, perhaps for reason of providing manual override of setpoints and outside reset limits to allow for occupant comfort under transient conditions (for example an interior building location requiring heat when the outside temperature has exceeded the outside reset limits) by means of a "boost" function, the boiler will continue to operate, but in the noncondensing mode. If this type of event happens frequently, it may be an indication of an improperly designed system. In any case, the longer or more frequently the system operates in the non-condensing mode, the economic benefits of condensing operating will be decreased or eliminated. Proper sizing of the boiler is critical to economic operation.

On the load side of the system, if starting with a clean sheet of paper, configurations requiring low-temperature water (e.g. radiant heating) would be ideal. However, the benefits of condensing boiler operation can be enjoyed while mating the boiler to an existing hydronic system, however instead of a variable flow primary only system, a primary-secondary system with closely-spaced Tees or isolating manifolds may be needed. All of this will be for naught if the installed radiation is not correctly sized.

Much more could be said on this topic, but to keep this to a reasonable length we can summarize that the successful installation of a condensing boiler system depends on: Proper sizing of the boiler (based on load calculations); Proper sizing of the installed radiation; Implementation of a control system that can monitor and control the system with precision, including proper selection of outside reset limits; Proper location of system components (air intake, flue gas discharge, reset sensors, etc.) to avoid obstruction or interaction with other sources of heating (sunlight, laundry room vent discharge, etc.); and, finally, detailed functional testing to ensure that all controls and components are operating as intended.

Donald W. Kane, P.E. CTTC Chairman

Refrigeration

Kigali Amendment to Phase Down HFCs Becomes Effective

The Kigali Amendment to the Montreal Protocol went into effect Jan. 1. Sixty-three countries of the 197 Parties to the Montreal Protocol that voted for the global phase-down of production and consumption of hydrofluorocarbons (HFCs) in October 2016 have ratified. The ratifying countries do not include the largest producers and consumers of HFCs, the United States and China. Under the Amendment, developed countries start in 2019 with a reduction to 90% of the baseline and decreasing in further steps until a 15% level is reached from 2036 onwards. Most developing countries begin a deferred phasedown in 2024. The European Union has already surpassed its phase-down target.

Article can be found at:

https://ec.europa.eu/clima/news/global-hfc-phasedown-starts-%E2%80%93-eu-already-below-its-first-limit_en

Michael Razzano Refrigeration Chair

Grassroots Government Activities Committee (GGAC)

The following is from the ASHRAE's government affair update:

U.S. Climate Alliance Releases Clean Energy and Resiliency Resources

The U.S. Climate Alliance, a bipartisan coalition of 17 U.S. governors committed to upholding the targets of the Paris Agreement, is releasing three clean energy and resilience "playbooks" that will serve as implementation resources for states in deploying solar energy, spurring electric grid modernization, and enhancing resilience in the face of climate impacts and natural hazards. These three resources are:





- The Non-Wires Solutions Implementation Playbook developed in collaboration with the Rocky Mountain Institute, this resource highlights how electric utilities increasingly can reduce infrastructure investments and save customers money by employing non-wires solutions such as solar PV, energy storage, energy efficiency and demand response which help meet growing energy needs in a cost-effective manner.
- The New Governors' Resilience Handbook created for the nation's 21 new Governors who take office in January 2019, this document provides direction on how to minimize climate risk, maximize clean economic growth opportunities and reduce future costs from extreme weather and climate variability.

Andrew Blom Grassroots Government Activities Chair

History

On this day in History

January 1, 2014: PSEG rebrands the LIPA System PSEG Long Island.

The Long Island Power Authority (LIPA) is a municipal subdivision of the state of New York that owns the electric transmission and distribution system serving all of Long Island and the Rockaways.

In 2012 Hurricane Sandy caused destruction and mayhem across Long Island. It was considered the deadliest and most destructive storm of the 2012 Atlantic Hurricane Season. Thousands of Long Island homes and businesses were destroyed. During this time, LIPA received a lot of criticism for their response to Hurricane Sandy. Ninety percent of LIPA's customers were without power, some for weeks. As a result many key members at LIPA resigned.

In the beginning of 2013 Governor Andre Cuomo began calling for the transfer of operations of LIPA. In the middle of the year he announced a plan to give PSEG day to day operations of LIPA's electric grid. A few months later the state legislature passed a law implementing this plan.

On January 1, 2014 it became official. LIPA was rebranded and PSEG was given full operation to manage daily operation, budgeting, maintenance, storm preparedness, infrastructure improvements, energy rebates and renewable activities.

Since then, PSEG has maintained control of the LI utility market. They have created multiple rebates around HVAC for both residential and commercial applications.

 $\underline{\text{https://www.psegliny.com/businessandcontractorservices/businessandcommercialsavings/commercialefficiencyrebateprogram}$

https://www.psegliny.com/saveenergyandmoney/homeefficiency/coolhomes

Elizabeth Jedrlinic

History Chairman

Elizabeth.jedrlinic@trane.com

BOG Meeting Minutes

BOG Meeting, Long Island Chapter

December 11, 2018 / 5:00 PM / Location: Westbury Manor, Westbury, NY

Board of Governors					
President	X				
President Elect	Frank Paradiso	X			
Vice President	James Hanna	X			
Financial Secretary	William Artis				
Treasurer	Mathew Vitrano				
Secretary	Murat Bayramoglu	X			
BOG-1	Michael Nigro	Х			
BOG-2	Elizabeth Jedrlinic	Х			
BOG-3	Andrew Blom				
BOG-4	Mathew Catan	Х			
BOG Immediate President	Andrew B. Dubel	Х			
Committee Member	Don Kane	X			
Committee Member	Brian Simkins	X			
Committee Member	Andy Manos	Х			

Roll Call: The above noted individuals were present.

Call to Order 5:19 PM:

7 people (Richard Halley, Frank Paradiso, James Hanna, Andrew Dubel, Murat Bayramoglu, Elizabeth Jedrlinic, Michael Nigro)

Secretary (Murat Bayramoglu)

Meetings minutes - Comments/Additions-Oct meeting was approved by all present BOGs.

President (Richard Haley) Chapter Operations [min-600/Par-1200) Total Points: 835

- PAOE- Keep updated
- New Letter: Newsletter and meeting notice separate.

1st of the Month: Worked well. E blast with presenter Meeting reminder, presenter information, and bio

1st Tuesday of Month: The Tuesday before the meeting is when the second blast goes out (or at bills discretion).

Day Prior to ASHREA Meeting: Newsletter goes out the day prior to the meeting.

Committee Articles: The articles are due the first Tuesday of the month.

Templates: two templates – one has a newsletter, one doesn't have a newsletter.

Make sure you copy Bill on all the newsletter emails.

Motion to approve the Minutes: Frank approved Liz second. Motioned Passed

Programs (Frank Paradiso)

- Jan meeting: John Naly (Cogen)
- Feb meeting: DL: M. Dennis Knight
- March meeting: (To be finalized)??
- April meeting: DL: James R. Tauby (Seismic Restraint of Mechanical Systems)
- May meeting: Field trip (Covanta field trip) 2. Tuesday (North Shore Towers)??
- June meeting: ?/
- Fishing trip June 8th 2019.
- · Other Notes:

Andy Emailed the DL's for engineers' week and they responded that they are going to be in February. We need to have the original request in for the allocated DL soon. Patricia Graff is confirmed as a DL. There is a form Frank needs to fill out

Chapter Technology Transfer (Don Kane Chair, Michael Nigro) [min-550/par-1050) Total Points: 575

- Facebook updates
- DL requests 1st DL was confirmed.
- Need to get all the speaker and topics lined up (CEU)

BOG Meeting Minutes

Financial Secretary (Bill Artis)

- Sponsor report: Trane \$5000. Working on Daiken \$5000. \$5000 short of goal.
- Mitsubishi Chapter Sponsorship (\$1000)
- Budget
- Chapter financial status
- Monthly meeting sponsor are \$500 for vendors, \$350 for engineering

Treasurer (Mathew Vitrano)

Treasurer's report has been received and filed.

Government Affairs (Andrew Blom) [min-500/par-650] Total Points (800)

- Activities: We are doing Day in the Hill Again. In September Coumo introduced HFC initiatives. It should be pretty good this year. Date Pending.
- USGBC
- Public relations Andy Manos

Historical (Elizabeth Jedrlinic) [min-100/par-300] Total Points (350)

- Articles/interviews of past president's Potential life-members/fellows. An old article will be picked up.
- Thanks to Andy for his answers.
- History of YEA in the spring.
- Murat to hand the boards to Liz.

Honors and Awards Chair (Brian Simkins)

- Service awards/Technical Awards
- Candidate Projects
- If there are any projects let Brain know

Research Promotion (Andy Manos) [min-800/par-1050] Total Points (510)

- Vendor Book
- 50/50
- Goal 30 will be reached by the end of December 2018.

MOTION BY Frank Paradiso: Increase Goal 30 by \$1000,

Seconded by James Hannah,

Chair (Richard Halley) stated the motion,

The chair put the motion to a vote.

All present members approved.

MOTION WAS APPROVED.

Full circle is due the end of the month. Scholarships have already been taken care of.

Refrigeration (Michael Razzano)

- Updates: Mike is planning one Refrigeration Tour. Working on setting up technical tour for the Javet Center. Still waiting on the approval by the end of the month.
- Andrew: motion to make official ASHREA event Frank seconds, Liz Seconds, everyone approves.

Membership Promotion (Bill Artis) [min-500/par-800] Total Points (200)

- Membership Upgrades: Have not looked at
- Delinquency reporting: Currently have 4
- New members: Started at 289 right now we are at 291
- Planned events membership promotion next month SMACNA
- Events budgets CRC haven't spent any money yet
- No new member pins

BOG Meeting Minutes

Student Activities (Frank Paradiso Chair, James Hanna) [min-300/par-500] Total Points (100)

Scholarships

Student membership update.

Stony Brook: Trying to get a meeting with two Professors. Possibly inviting to SMACNA Meeting Suffolk Community College presentation next year.

Hofstra

NYIT: Speaking with Bill about getting a few people into ASHRAE Other: There is a master's Energy management course available to take

YEA (Elizabeth Jedrlinic)

- 2018 Plan Similar events will be organized
- Budget?
- Racecar Event: February and Joint event. Will work on closer to year end.
- Goal: Brief presentation with a student activity committee and speak about HVAC careers
- Other: Frank is scheduled for the 2.0 Event. Which is in Liz budget for reimbursement and approved.
- YEA will participate at student activity in Feb.
- June event?

Reception & Attendance (Matt Catan)

Crushing it: A cool signing sheet was designed. Works well.

Electronic Communications [min-250/par-600](50)

- Temp address
- New site active! www.ashraeli.com
- Recovery of old address (Ongoing)
- Approved the preliminary budgets at CRC which included the upgrade of the website to a new site.
- Motion: Bill: Motion to release Web page funds; after vote motion approved.

Golf (Peter Gerazounis/Tom Fields)

- May 13th
- No Additional Report.

New Business...

By Richard Halley: Cancellation of June event in Westbury Manor.

- MOTION BY Murat Bayramoglu: Board is to be planning an event in either Centerport Yacht Club or Northport Yacht Club at a spending not more than \$4000.
- Seconded by Elizabeth Jedrlinic
- Chair (Richard Halley) stated the motion,
- The chair put the motion to a vote.
- All present board members favored the motion,
- MOTION WAS APPROVED.

Motion to adjourn by Richard Halley at 5:49 PM Seconded by Michael Nigro

Next BOG Meeting

Location: Westbury Manor

Date: 1/8/2019 Time: 5:00PM

Motion to Adjourn

5:49 PM

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