



SEASON'S GREETINGS

Inside this issue:

President's Message	1
LI Chapter Officers	2
Meeting Schedule	3
November Meeting Pictures	4-5
LI Past Presidents	6
PAOE	6
Program	7
YEA	8
Research Promotion	9
Membership	10
Student Activities	10-12
CTTC	13-14
Refrigeration	14
GGAC	15
History	16-20
BOG Minutes	21-23
ASHRAE Social Media	24
ASHRAE Certifications	25
Advertisements	26-28

President's Message

Welcome to the December issue of the "Long Island Sounder". We thank all those who attended last month's joint meeting with SMACNA. Due to out of town business I was pulled away from the meeting but was informed that we had a very strong turnout. As President of the chapter I find it very encouraging to see different disciplines of our industry getting together to share learnings and gain knowledge from each other.

Thank you again to Mark Terzigni, Director of Engineering and Technical Resources SMACNA and his presentation on "System Effect" as it relates to engineering of mechanical rooms. It was very enlightening and displayed the many considerations for inlet/outlet conditions when sizing a mechanical room. We received many positive comments on the live physical mock up demonstration that proved the differences in design.

November's meeting was also Student and YEA night we would like to thank the students from Stony Brook University, Nassau Community and Suffolk Community for attending.



CHAPTER MONTHLY MEETING

DATE:	Tuesday, December 11, 2018
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 -	\$60.00
Student -	\$15.00

Thank you to Trane for sponsoring November's cocktail hour and the following companies; MGE and Accuspec for offering to sponsor the January and March meetings. If your company is interested in sponsoring a cocktail hour please contact Don Kane or myself.

This month the Long Island Chapter will be hosting the 2018 holiday party on December 11th at the Westbury Manor. We will also be offering two presentations for engineering credit. (1) Inadequate Hydronic Balancing causing low delta T (2) Commercial Gas Detection System Overview and Application

Please check out our website www.ashraeli.com and take a look at the latest programs. Frank Paradiso, our Programs Chair, has scheduled beneficial topics for the chapter monthly meetings. Pencil in those dates on your calendar so you won't miss out on these great topics.

Time is moving fast and the ASHRAE winter meeting is scheduled for January 12th through the 16th in Atlanta. If you have the opportunity, the AHR expo is an amazing opportunity to see what's new and who is who. There are also many ASHRAE learning sessions and technical committees to check out.

As we enter the Holiday Season and start to close out 2018 I would like to wish you a safe and joyous holiday season and a happy and healthy new year.

Check the ASHRAE Website for Society news and to join/renew membership!
<http://www.ashraeli.org>

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
Secretary	Murat Bayramoglu	631.312.8818	secretary@ashraeli.org
Board of Governors	Michael Nigro	212.643.9055	bog1@ashraeli.org
Board of Governors	Elizabeth Jedrlnic	516.490.1621	bog2@ashraeli.org
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 Jedrlnic	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 Jedrlnic	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

Editor's Note: The appearance of any technical data, editorial material, or advertisement in this set of publications does not constitute endorsement, warranty or guaranty by ASHRAE of any product, service, procedure, design, or the like. ASHRAE does not warrant that information is free from errors, and ASHRAE does not necessarily agree with any statement or opinion in this set of publications. The entire risk of the use of any information in this set of publications is assumed by the user. Statements made in this publication are not expressions of the Society or of the Chapter and may not be reproduced without special permission.

Chapter Monthly Meeting - Program for 2018/2018

September 11, 2018 * At Westbury Manor  Dinner Presentation – Adiabatic Cooling Solutions Presenters: Robert Gebhard, Michael Silverstein, Alex Schafer **1 PDH** Refrigeration Night	March 12, 2019 * At Westbury Manor Dinner Presentation - TBD Presenter: **1 PDH** YEA Night
October 9, 2018 * At Westbury Manor  Dinner Presentation— Refrigerants Presenter: William E. Dietrich **2 PDH's**	April 9, 2019 Annual Field Trip
November 13, 2018 * At Westbury Manor  Dinner Presentation-- System Effect Presenter: Mark Terzigni **1 PDH** Joint meeting with SMACNA Membership Promotion Student Activities Night and YEA Night Resource Promotion Night	May 6, 2019 * Cherry Valley Club, Garden City, NY ANNUAL GOLF OUTING
December 11, 2018 * At Westbury Manor Dinner Presentation-- Eliminating the High Cost of Over Pumping / Commercial Gas Detection System Overview & Application Presenters: Robert J. Rybka / Ronald Sweet **1 PDH**	May 7, 2019 * At Westbury Manor Dinner Presentation - TBD Presenter: **1 PDH** Refrigeration Night Student Activities Night
January 8, 2019 * At Westbury Manor Dinner Presentation– TBD Presenter: **1 PDH**	June 11, 2019 * 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
January 20-24, 2019 ASHRAE Winter Meeting Chicago, IL	June 8, 2019 (4pm-8pm) * Dixie II @ Captree State Park Boat Basin, NY ANNUAL FISHING TRIP
February 12, 2019 * At Westbury Manor – Dinner Presentation– Presenter: **1 PDH** Membership Promotion Night Resource Promotion Night	June 14, 2019 Joint YEA Event with LI, NYC & Westchester (Details to follow)
February 18-24, 2019 NATIONAL ENGINEERS WEEK EJCLI Seminars	August 15-17, 2019 CHAPTERS' REGIONAL CONFERENCE (CRC) REGION I

November Meeting Pictures



November Meeting Pictures



Long Island Chapter - Past Presidents

1958	H. Campbell, Jr. PE	1988	Michael O'Rourke
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	CTTC	Electronic Communications	GGAC	Historical	Membership	Research Promotion	Student Activities	Chapter PAOE Totals
282	805	575	50	0	350	475	510	100	2,865

December Meeting Program



Robert J. Rybka
Regional Application
Consultant, Northeast
Belimo Americas

Dinner Presentations

***“Eliminating the High Cost
of Over Pumping”***

And

***“Commercial Gas Detection
System Overview & Application”***



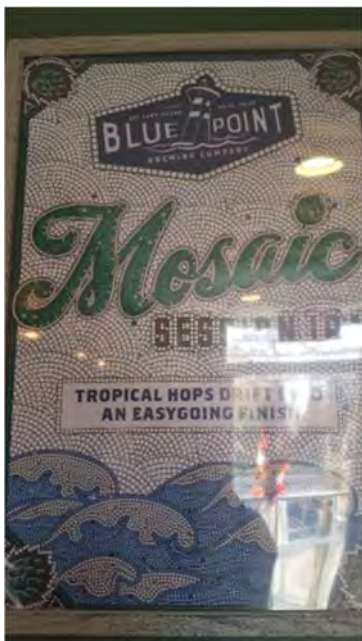
Ronald Sweet
Eastern Regional Sales Manager
Critical Environment Technologies

DATE:	TUESDAY DECEMBER 11, 2018		
Time:	6:00 PM - Cocktails and Hors D'oeuvres 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:	<p>Eliminating the High Cost Of Over pumping - This presentation will examine how inadequate hydronic balancing will cause over pumping and low delta T. Low delta T is very costly but can be corrected. Keeping the water in the coils per their design will allow chillers, coils and pumps to perform according to their design specifications. We will review savings calculations based on correcting low delta T.</p> <p>Commercial Gas Detection System Overview and Application - An overview of gas detection for life safety systems and indoor air quality control applications.</p> <p>All attendees will receive 1 PDH.</p>		
About our Speakers:	<p>Robert J. Rybka has 42 years experience in installation, service, development, sales and technical training for process HVAC, hydronic systems and controls. He has provided technical training for the installation of process systems and the selection, sizing and application of control valves and airside / fire and smoke actuators. He currently serves as Regional Application Consultant, Northeast for Belimo Americas.</p> <p>Ronald Sweet is currently the Eastern Regional Sales Manager, North America, for Critical Environment Technologies Canada Inc., a position he has held for the past 14+ years. Ron holds a degree as an Electronics Engineering Technologist and prior to joining Critical Environment Technologies spent 25 years in the Wireless Telecommunications industry, beginning his career as a field technician and moving up through field service management and service centre management prior to becoming involved in Technical Sales and Technical Sales Management.</p>		

**Attendees
Will Earn
2 PDH's!**

Young Engineers in ASHRAE (YEA)

Our First YEA Event of the Season took place on November 15, 2018 at the Blue Point Brewery Tap Room. Many thanks to the Five Long Island Chapter members who came out for a drink. It was a beautiful Saturday afternoon and the Tap Room was quite crowded.



We have a lot more exciting events to look forward this season so keep your eyes open!

2019 Winter Conference in Atlanta

Make sure you check out the Young Engineers in ASHRAE (YEA) Hospitality Suite

Sunday, January 13 | 4:00 -6:00 p.m.

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.

If you are interested in getting involved in a Technical Committee, make sure to drop into one while you are at the conference.

[https://www.ashrae.org/File%20Library/Communities/Young%20Engineers%20in%20ASHRAE%20\(YEA\)/Resources/YEA-Technical-Committees-Guide.pdf](https://www.ashrae.org/File%20Library/Communities/Young%20Engineers%20in%20ASHRAE%20(YEA)/Resources/YEA-Technical-Committees-Guide.pdf)

Elizabeth Jedrlinic

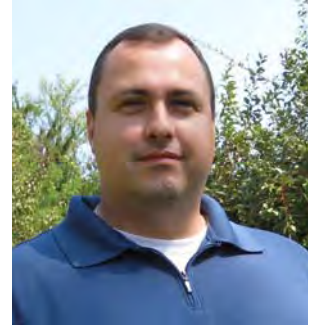
YEA Chair

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 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 deadline is December 15th.



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 \$3650. 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

COMPANIES

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

CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

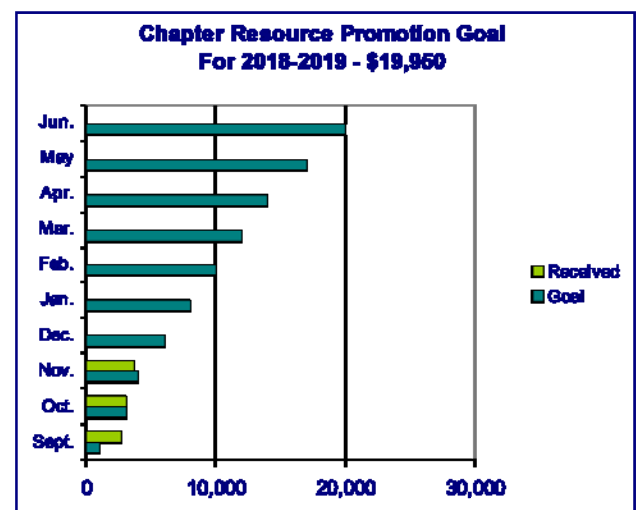
1) You can mail your checks, made out to ASHRAE Research Promotion, to:

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 Holidays from Student Activities. This month is Student Activities Achievement Recognition as well as Youth Outreach Award. We also had 5 new student memberships.

- The Student Activities Achievement Award is given to a Chapter Student Activities Chair for service related to the goals and growth of student activities at all levels. Please see the following link for criteria and how to apply.
 - ◇ <https://www.ashrae.org/communities/student-zone/student-activities/student-activities-achievement-award>
 - ◇ Deadline for applications is January 1st
- The Youth Outreach Award will be given annually to an ASHRAE member who actively engages a youth audience in their country, region or local community through science, technology, engineering and mathematics (STEM) activities. Such activities may include, but are not limited to, science fairs, technical tours, classroom activities, judging local competitions, and mentoring. The Youth Outreach Award may be omitted if a suitable candidate is not identified.
 - ◇ Please use the attached word document for criteria and how to apply.
 - ◇ Deadline for applications is December 31st



Frank Paradiso
Research Promotion Chair

James Hanna
Research Promotion Chair

Student Activities (Cont'd. from Page 10)



Youth Outreach Award

**Youth is defined as children ranging from ages 5 – 17.*

Award The Youth Outreach Award will be given annually to an ASHRAE member who actively engages a youth audience in their country, region or local community through science, technology, engineering and mathematics (STEM) activities. Such activities may include, but are not limited to, science fairs, technical tours, classroom activities, judging local competitions, and mentoring. The Youth Outreach Award may be omitted if a suitable candidate is not identified.

Background Strong education in STEM is critical to America's global competitiveness. Our future standard of living depends on developing future technicians, engineers and scientists. With today's global economy, concerns about American workforce competitiveness have emerged. Even students pursuing non-STEM specialties need a basic knowledge of scientific and technological applications for effective participation in the workforce, success in their personal lives, and responsible citizenship.

Objective As professionals focused on design, construction, operation, and maintenance of the nation's buildings and infrastructure and as educators of future generations of engineers, ASHRAE members are encouraged to recognize the importance of a solid foundation in science, technology, engineering and mathematics through active involvement in their local communities and in national programs, bringing exciting science and engineering programs to students. ASHRAE is nationally engaged in the Solar Decathlon, National Engineers Week, the Absolute Zero Campaign, and other STEM educational efforts. However, it is up to members to carry on this torch locally.

Procedure Chapter Presidents or Student Activities Chairs should submit their Chapter's best nomination to the Regional Vice Chair for Student Activities no later than **January 1**, annually.

The nomination should be electronic and include:

- The members' name and membership number
- **A 1-page explanation of the nominee's qualifications based on the criteria listed below.** Activities must have taken place from July 1 to June 30 the previous year.
- List actual activities and hours of preparation or direct contact in the explanation
- Documentation of the computed award points as outlined in Item 5.
- A copy of the member's ASHRAE bio

The RVC will select the best nomination(s) in his/her region and submit it to the Student Activities Committee for evaluation at the Winter Conference. This candidate will be nominated to the Honors and Awards Committee by the Student Activities Committee.

Awards are presented during the Chapter Regional Conference (CRC).

Judging The Student Activities Committee will evaluate all entries and select the top candidate for final approval by ASHRAE's Members Council.

Points are based on time preparing for and direct contact time with youth explaining or promoting STEM. Special consideration is given for starting or developing new STEM programs. A minimum of 500 points is necessary for eligibility. Sample activities are listed in the criteria section. Any activity that promotes STEM awareness to youth is eligible.

The winner will be notified immediately following the Winter Conference, annually.

The Youth Outreach Award consists of an acrylic plaque which will state: "In recognition of your work ensuring the children receive the STEM training essential for future success."

Student Activities (Cont'd. from Page 11)

The Honors and Awards Committee shall consider the points and the explanation in its deliberations. The cost of the award will be covered by the Student Activities Committee. Awards are presented during the Chapter Regional Conference (CRC).

Criteria The following programs are examples of qualifying STEM activities. Any activity that promotes STEM programs to students qualifies.

Participate in Engineering for Girls Program

Participate in or organize an event supporting one of the national or local programs established to promote women in engineering, such as Introduce a Girl to Engineering Day, GEMS, Girl Scouts, Girls in Engineering, etc. Provide name of program and dates of participation.

Participate in a one-day event for school kids

Participate as a judge, grader or monitor for one day event for school kids such as Math Counts, Future City Competition, Engineering Festival, etc. Provide name of program and dates of participation.

Participate as a coach, mentor, organizer, judge, grader or mentor for a local (or national) school group.

Groups may include, but are not limited to, First Lego League, Junior Achievement, Math Counts, Future City Competition, Engineering Festival, Boys or Girls Scouts, National Academy of Engineers, after school programs, tutoring, and much more. Note, only the time spent on STEM activities are eligible for points.

Please provide a brief description of the activity, number of attendees, date and location.

Conduct a school visit

Participate in a visit to a local school for any of the following,

- *host career fair*
- *host tour with local chapter,*
- *take or a group to a local college for a day*
- *Classroom presentation with activity*
- *Science fair*
-

Please specify the name of the school, date, activity and location of the event.

Rubric (500 Points Minimum Required)

<u>Scoring System</u>	<u>Points</u>	<u>Comments and Points for Nominee</u>
Time spent preparing for or conducting a STEM activity.	25 pt/hour	
*Development/Organization of new STEM activity <i>Special consideration is given for the effort required to organize and start a new STEM related club or ongoing program. Please describe the program started.</i>		

*there is no point value associated with starting a new club or ongoing program, however, this will be given special consideration

CTTC

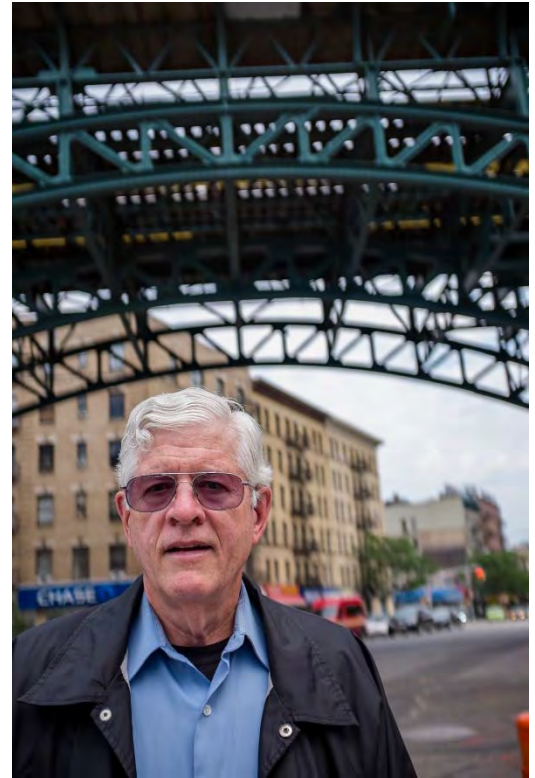
HVAC/R Control and Protection – It's a Gas....or maybe Fugitive Emissions!

In the design and implementation of HVAC/R systems, we are generally concerned with adding or removing BTUs from an environment to maintain certain set thermal and moisture related conditions. In more recent times, the concerns for indoor air quality have added to the designer's (and equipment suppliers') workload. It has been recognized that keeping occupants comfortable and safe requires more than heating and cooling, necessitating the concern with various "pollutants"...some generated within a building while some come from the outside. Certainly the reference to "outside air" rather than the former "fresh air" recognizes that many of the environmental bad actors come from the outside...but, by and large, most of our concerns will be related to those atmospheric constituents emanating as a result of human respiration, industrial processes, waste disposal, vehicular use within structures and, the very equipment we rely upon to achieve a comfort level for the occupants of the structure.

Airborne contaminants may be broadly broken down into two groups... those that are potentially unsafe (fire hazard or toxicity) and those which are unpleasant (physiologically safe but offensive to the olfactory system). We generally do not worry so much about a building's infrastructure dedicated to the transport of gases and fluids which, if released from their piping could pose a problem, once the piping has been installed and in use without issue. Recent events in Massachusetts brought home the point that, in case of an anomalous pressure event, existing piping systems may fail, with catastrophic consequences. Monitoring for various gases and vapors may be for protection (to prevent harm to life and property) or to enhance the level of comfort. In some cases there will be an overlap in function. Monitoring Carbon Dioxide levels (although some may question the efficacy in using this metric) may, at the very least, enhance the occupant comfort levels, but, may also provide a safety function to prevent persons performing work with machinery or hazardous materials from experiencing drowsiness or lethargy.

The list of potential contaminants will vary based upon the use and type of structure: a single family home potentially could have elevated levels of carbon monoxide (cooking and heating appliances), sewer gas (should plumbing traps be allowed to dry out) as well as the potential for refrigerant leakage from split-system heat pump and cooling equipment; commercial structures will have the added concerns of ozone (copier machines) as well as out-gassing from 3D printing and/or laser etching equipment; Schools and hotels, with the addition of swimming pools add concerns related to chlorine levels (as well as mold/particulates if humidity control is lacking. Certainly industrial and medical installations will add an additional level of contaminants to contend with, as will attached parking garages and large scale refrigeration plants. Obviously, one could go on and on...there are too many different environments to cover in a short essay. The key point is that almost without exception, any structure may harbor the potential for dangerous gases and vapors which need to be addressed by the detection and ventilation system provided. In many cases, due to requirements of applicable codes, if certain levels are exceeded it may be necessary to shut down any equipment which could either add to the level of contaminant or provide a source of ignition if the material is combustible.

What should be done then, when faced with the design of a new (or retrofitted) structure's HVAC/R equipment? First, identify what gases/vapors will be present, both under normal use and in the event of an equipment or process malfunction. Identify the hazard type (toxicity or fire). Identify the nature of the gas (lighter than air, heavier than air or approximately the same as air). Identify any interconnection to other systems (emergency shut-down, for example) needed to comply with applicable codes.



CTTC (Cont'd. from Page 13)

Based upon the above, one can then proceed to determine the type and placement of sensors for the various gases. While heavier than air gases should normally be sensed 6 inches from the floor level and lighter than air gases on or near the ceiling, other constraints may have to be addressed (for example, to avoid damage and/or contamination of floor level sensors or access to ceiling mounted sensors to provide for calibration and test). For gases with a density approaching that of air, mounting in the "breathing zone" four to six feet above floor level would be appropriate. The location of fans and vents also has to be considered when mounting the sensors to avoid inaccurate monitoring.

The best sensors and monitoring equipment will be of no use if not properly calibrated and, more importantly, maintained and kept in an operational state. Performance of a so-called "bump test" to verify the operation of the equipment is key (and may have to be done on a daily basis) but does not take the place of routine calibration testing and adjustment. In addition to the locating of the sensors and selecting the monitoring equipment one must be aware if there is a need to have communication with other systems (alarm, BAS, etc) and to make sure that there is compatibility between equipment chosen.

In summary, make sure you are aware of the hazardous gases involved, know what response is required (alarm or shut-down) and what outside communication is needed. Once you have narrowed down the site needs and have located a supplier, one can then finalize the equipment specified, based upon, for example, power supply requirements and physical concerns. Most importantly, the final design should incorporate the calibration requirements for continued operation.

Donald W. Kane, P.E.
CTTC Chairman

Refrigeration

Design Considerations In Cold Climates

By Scott Schuetter, Associate Member ASHRAE, and Scott Hackel, Member ASHRAE

Air source variable refrigerant flow (VRF) systems are grabbing a greater share of the market in moderate climates. However, they are not widely implemented in cold climates because they typically lose capacity and efficiency at low ambient temperatures. To overcome this barrier, VRF systems may be supplemented by an additional heat source. Alternately, they can be upgraded to water or ground source systems that are not subject to ambient temperatures. While questions remain regarding how to select, design, and operate VRF systems in colder climates to achieve good energy performance and reduce capacity degradation, we have analyzed several strategies and share our conclusions and observations in this article.



Article can be found at : <https://images.magnetmail.net/images/clients/ASHRAE/attach/Schuetter.pdf>

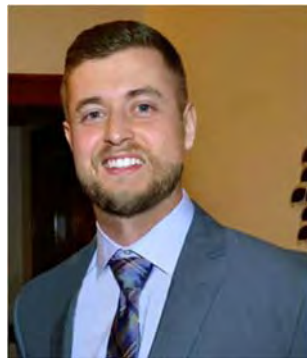
Michael Razzano
Refrigeration Chair

Grassroots Government Activities Committee (GGAC)

Please see below for **President Sheila Hayter's letter** to the EPA regarding proposed refrigerants rule:

In response to the U.S. Environmental Protection Agency's (EPA) Proposed Rule, "Protection of Stratospheric Ozone: Revisions to the Refrigerant Management Program's Extension to Substitutes," published in the Federal Register on October 1, 2018, ASHRAE respectfully submits the following comments.

ASHRAE, founded in 1894, is a non-profit engineering society of more than 56,000 members worldwide, including 39,000 in the U.S., who focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE advances human well-being through sustainable technology for the built environment. The Society also focuses on public safety and health concerns and provides guidance for a safe environment during extraordinary events.



Refrigeration and air conditioning provide many benefits to society, but these benefits have environmental and societal consequences. Many of these consequences stem directly from the refrigerant chosen and its management during the life of the equipment. For example, refrigerant emissions from air conditioning and refrigeration systems occur during installation, replacement and maintenance, as well as a result of malfunctions or breakage.

Because of this, ASHRAE promotes the responsible use of refrigerants during the processes of design, manufacturing, operation, and servicing of systems as well as at the end of life. ASHRAE also supports and is committed to the efforts to advance technologies that minimize the impact on the environment while enhancing performance, containment of refrigerants, cost-effectiveness, and safety of employees and the public.

ASHRAE is concerned about how EPA's proposed rule may diminish requirements that support proper handling and containment of refrigerants. As such, ASHRAE believes that HFC refrigerants should not be excluded from proper management and handling.

ASHRAE's "Position Document on Refrigerants and Their Responsible Use" includes the following recommendations, which we hope EPA will take into consideration:

Improved Design and Equipment Applications

- Balance the safety, energy efficiency, cost, and environmental impacts of refrigerants using a consistent and comprehensive methodology across all refrigerants and system types using benchmarks like LCCP or TEWI.
- Advance the design and development of refrigeration and air-conditioning equipment that facilitate reduced refrigerant charge and emissions.
- Develop tools, equipment, methodologies, and practices to minimize or prevent refrigerant loss during installation, operation, maintenance, and decommissioning of refrigeration systems.
- *Improved Field Practices and Training*
- Introduce and manage on-site emission prevention measures including, but not limited to, improved system tightness for leak prevention, good commissioning and installation practices, regular leak checking, monitoring, labeling, and record keeping. These elements can be incorporated as part of a comprehensive refrigerant management program.
- Establish programs that promote refrigerant recovery, recycling (reuse), reclamation, and safe disposal practices, including at the end of equipment life.
- Develop and enact certification programs for specialists (practitioners) in relation to setting benchmarks and competencies of good practices.
- Promote the introduction of corporate social responsibility policies and programs in relation to the responsible use of refrigerants.
- Introduce training programs about lower GWP refrigerants and their responsible use for different stakeholders.
- Thank you for your consideration of our comments. ASHRAE welcomes the opportunity to speak further with you or your staff about our comments on the proposed rule. To schedule a meeting, please feel free to contact me or ASHRAE's government affairs staff at GovAffairs@ashrae.org. We look forward to helping EPA carry out its mission to protect human health and the environment.

Andrew Blom

Grassroots Government Activities Chair

History

Elizabeth Jedrlinic, History Chairman

Elizabeth.jedrlinic@trane.com

The Long Island Chapter of ASHRAE was created in 1957. Recently I found a copy of our original Chapter Constitution. It is interesting to see how the board formed, the rules that were put in place. Even the CRC committee is noted!

CONSTITUTION
OF THE
LONG ISLAND CHAPTER
OF THE
AMERICAN SOCIETY OF HEATING, REFRIGERATING AND
AIR-CONDITIONING ENGINEERS, INC.

Approved by the Society:

ARTICLE I - NAME

The name of the organization is the Long Island Chapter (herein "Chapter") of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (herein "Society").

ARTICLE II - PRINCIPAL OFFICE

The principal office of the Chapter is located in Garden City, New York.

ARTICLE III - OBJECTS

The objects of the Chapter are exclusively scientific and educational and include, but are not limited to: (a) the advancement of the sciences of heating, refrigerating and air-conditioning engineering and related sciences; (b) the continuing education of the members and other interested persons in said sciences, through lectures, demonstrations, and publications; (c) the rendering of career guidance and financial assistance to students of the sciences; and (d) the encouragement of scientific research.

ARTICLE IV - POWERS

The Chapter shall have the power to perform all lawful acts which may be deemed necessary for the proper and successful prosecution of the objects and purposes for which it is organized and operated, consistent with the Certificate of Consolidation, Bylaws, and Rules of the Board of Directors of the Society, and applicable tax regulations for non-profit organizations or corresponding provisions of tax laws.

ARTICLE V - LIMITATION OF POWERS

1

b. by a two-thirds vote of the ASHRAE Board of Directors after written preferment of charges, sixty (60) days written notice of hearing sent by registered mail to the President of the Chapter, and an adequate opportunity for the chapter representative to be heard before the Board of Directors or a committee of three (3) or more members designated by the Board of Directors.

6.2 In the event of dissolution, all debts and liabilities legally incurred on behalf of the chapter shall be fully discharged. The remaining funds shall be disposed of in accordance with paragraph 6.3 thereof.

6.3 Upon the dissolution of the Chapter, any assets remaining thereafter shall be conveyed to the Society.

6.4 In the event that the Society is not then in existence or is not then exempt under applicable tax regulations for non-profit organizations or corresponding provisions of tax laws, the assets shall be conveyed to such organization then existent, dedicated to the perpetuation of objectives similar to those of the Society and exempt.

ARTICLE VII - AMENDMENTS

7.1 All articles of this Constitution shall be subject to alteration or repeal, consistent with the Certificate of Consolidation, Bylaws, Rules of the Board of Directors of the Society, and applicable tax regulations for non-profit organizations or corresponding provisions of tax laws.

7.2 Amendments to this Constitution, set forth in written directives of the Secretary of the Society, shall be adopted by a majority of the Board of Governors. Written copies of said amendments shall be sent by the chapter secretary to all members, or an officer of the Chapter shall read said amendments at the next succeeding meeting.

7.3 Amendments to this Constitution may also be initiated by a written resolution of a majority of the Board of Governors or of not less than five (5) members in good standing with voting privileges, presented at any meeting of the Chapter. If approved by a majority of the members present, the Secretary shall mail copies of the proposed amendments to all members not less than

3

5.1 The Chapter is not operated for the pecuniary profit of its members. No part of the net income of the Chapter shall be payable to or shall otherwise be available for the personal benefit of any proprietor, employee or shareholder. No salary emolument or compensation shall be paid to any member, and no part of the activities of the Chapter shall consist of the performance of particular services for individual members.

5.2 The Chapter shall not have the authority to act for or in the name of the Society and notice to such effect shall be imprinted on the Chapter stationery; the Chapter shall not use the name of the Society except as a part of its own name; the Chapter shall not use the emblem of the Society without the written approval of the Board of Directors of the Society; and the Chapter shall not incur any financial liability or contractual obligation in the name of the Society.

5.3 The Chapter shall not issue publications for distribution to persons other than members without prior approval of the Board of Directors of the Society. Certain publications for members such as a chapter newsletter or chapter membership roster/product directory may be distributed to persons other than members provided it clearly complies with paragraph 5.2.

5.4 The Chapter shall not contribute to, affiliate with, or hold membership in any society, association, council, or other organization without prior approval of the Board of Directors of the Society.

5.5 The Chapter shall not recommend, endorse or approve any product, service, publication, person or entity for the promotion of private interests.

ARTICLE VI - DISSOLUTION

6.1 The chapter may be dissolved:

- a. with the consent of not less than sixty (60) percent of the members in good standing of the chapter with voting rights expressed, either in person or by proxy, at a special meeting called for that purpose, or

2

seven (7) days before the next succeeding meeting. If approved by a two-thirds (2/3) vote at such meeting, the Secretary shall forward such amendments to the Secretary of the Society for approval by the Charter and Bylaws Committee of the Society and review by the Regional Chair. Amendments shall become effective only upon receipt of written notice of approval by the Charter and Bylaws Committee of the Society.

ARTICLE VIII - ADOPTION

This Constitution shall be completed and adopted by a majority of the Board of Governors. Written copies of the Constitution shall be sent by the Secretary to all members and shall be sent, as amended, to such persons as shall, from time to time, become members of the Chapter.

Adopted by the Long Island Chapter:

Date _____ Chapter President

tes/00-09-18Long Island C&BL.doc

4

Cont'd. on Page 17

History (Cont'd. from Page 16)

BYLAWS OF THE
LONG ISLAND CHAPTER
OF THE
AMERICAN SOCIETY OF HEATING, REFRIGERATING
AND AIR-CONDITIONING ENGINEERS, INC.

APPROVED BY THE SOCIETY:

ARTICLE I - GOVERNMENT

1.1 Governing Instruments. The Long Island Chapter (herein "Chapter") of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (herein "Society") shall be governed by its Constitution and these Bylaws, to the extent not inconsistent with the Certificate of Consolidation, Bylaws, and Rules of the Board of Directors of the Society.

1.2 Interpretation. The Board of Governors shall resolve all questions of interpretation of the Constitution and these Bylaws.

1.3 Rules of Order. Except as otherwise provided in the Constitution or these Bylaws, the conduct of meetings of the members shall be governed by the rules of procedure set forth in Robert's Rules of Order Newly Revised.

ARTICLE II - MEMBERSHIP

2.1 Qualification. The membership of the Chapter shall consist of all members of the Society in good standing and residing in the geographic area of the Chapter, as prescribed by the Board of Directors of the Society, who have properly joined the chapter.

2.2 Non-Residents. Notwithstanding the foregoing, a member of the Society residing in the geographic area of a Chapter may elect to be a member of another Chapter. A member may elect to belong to more than one Chapter.

2.3 Grade. Each member shall hold the same grade of membership in the Chapter as in the Society.

2.4 Rights and Privileges. All Chapter members shall be entitled to the same rights and privileges, except that (a) Associate Members, (b) Student Members, and (c) Members who have not paid

1

3.3 Special Meetings. Special meetings of the Chapter may be called by the President at the President's discretion, or at the request of the Board of Governors or 15 percent of the members with voting rights.

3.4 Notice of Meetings. Timely written notice of all meetings shall be sent by the Secretary to all members setting forth the place, date and hour of the meeting and, in the case of a special meeting, the purpose thereof.

3.5 Quorum. A quorum for the transaction of business at a meeting of the Chapter shall consist of 15 percent of the members having voting rights, except that no business may be transacted unless a majority of the Board of Governors is also in attendance.

3.6 Majority Vote. A majority of the number of votes cast in person or by proxy shall be necessary for the adoption of any matter, except as otherwise provided in the Constitution or these Bylaws.

3.7 Proxies. A member may vote on any matter by a written proxy executed and dated by the member. No proxy shall be valid after ninety (90) days from the date of its execution, unless otherwise provided in the proxy.

ARTICLE IV - DUES AND FINANCE

4.1 Society Dues. The annual dues for membership in the Society, as prescribed from time to time by the Society, shall be paid to the Society.

4.2 Chapter Dues. The Board of Governors, in its discretion and subject to the approval by a vote of members, may levy such dues, fees, charges or other assessments as are reasonable and necessary to meet the current operating expenses of the Chapter. The due date of such payments shall be as prescribed by the Board of Governors.

4.3 Fiscal Year. The fiscal year of the Chapter shall end on June 30 of each year.

ARTICLE V - BOARD OF GOVERNORS

3

Chapter fees, dues, assessments or other charges within sixty (60) days of their due date shall not be entitled to voting privileges or the right to election or appointment as an officer, governor, or committee chair of the Chapter. Chapter officers and committee chairs must be members of ASHRAE in good standing with the grade of Associate Member or higher. All rights and privileges of a member are vested solely in the member and may not be delegated or transferred, except as provided in Article III, paragraph 3.7 hereof.

2.5 Suspension. In the event that a member does not pay all the Chapter fees, dues, assessments or other charges within six (6) months of their due date, all rights and privileges of membership in the Chapter shall be suspended. Such membership rights and privileges shall be restored to the member upon full payment thereof. Delinquency in payment of Chapter dues or other Chapter charges will not affect a member's standing in the Society.

2.6 Termination. Membership in the Chapter shall terminate upon the death of any member, the removal of a member's principal place of residence to the geographic area of another Chapter except as provided in Article II, paragraph 2.2 hereof, or the receipt of written notice by the member of termination of membership. In the event of such termination, neither the former member, nor his/her personal representatives, heirs or devisees shall have any right, title or interest in the Chapter or its assets.

2.7 Expulsion. A member may be expelled from the Society and the Chapter only upon action taken by the Board of Directors of the Society. Such action may be initiated by the Board of Governors of the Chapter by the filing of written charges and supporting evidence with the Secretary of the Society.

ARTICLE III - MEETINGS OF MEMBERS

3.1 Regular Meetings. Meetings of the Chapter shall be held on at least a monthly basis from September through June at such time and place as is prescribed by the Board of Governors.

3.2 Annual Meeting. The annual meeting of the chapter for the installation of officers and the Board of Governors and the announcement of committee appointments shall be held in the month of June at such time and place as is prescribed by the Board of Governors.

2

5.1 Duties. The property and affairs of the Chapter shall be managed by the Board of Governors. The Board of Governors may execute all business of the Chapter that does not require action by the full membership of the Chapter. The presiding officer shall report briefly on these actions at the next Chapter meeting.

5.2 Composition. The Board of Governors of the Chapter shall consist of the officers, the most recent available past president, and a minimum of two members elected pursuant to Article VII hereof.

5.3 Meetings. The time and place of regular meetings of the Board of Governors shall be at the discretion of the Board. A special meeting of the Board of Governors may be called by the President, at the President's discretion, or at the written request of two (2) members of the Board.

5.4 Quorum and Majority Vote. A quorum for the transaction of business shall consist of a majority of the Board present in person, and the majority vote of the members present in person or by proxy shall be necessary for the adoption of any matter, except as otherwise provided in the Constitution or these Bylaws. The form of proxies shall be governed by Article III, paragraph 3.7 hereof.

5.5 Notice of Meeting. Timely written notice of all meetings shall be sent by the Secretary to all members setting forth the place, date and hour of the meeting and, in the case of a special meeting, the purpose thereof.

5.6 Appointments to Auditing Committee. The Board of Governors shall appoint members to the Auditing Committee, pursuant to paragraph 8.3.9 hereof, at a meeting of the Board of Governors held prior to the annual meeting of the Chapter. Appointments shall be announced at such annual meeting.

ARTICLE VI - OFFICERS

6.1 Titles. The officers of the Chapter shall be a President, a President-Elect, a Vice President, two Secretaries, and a Treasurer.

6.2 Multiple Offices. With the exception of the office of President, any number of offices may be held by the same member.

4

History

6.3 The President. The President shall be the chief executive officer of the Chapter and shall have general direction of the affairs of the Chapter and general supervision over its several officers, subject however, to the control of the Board of Governors. The President shall, from time to time, report to the members and to the Board all matters within the President's knowledge which the interest of the Chapter may require to be brought to the Chapter's notice; shall preside at all meetings of the members and at all meetings of the Board; shall sign and execute in the name of the Chapter all contracts, or other instruments authorized by the Board, except in cases where the signing and execution thereof shall be expressly delegated or permitted by the Board or by these Bylaws to some other officer or agent of the Chapter.

6.4 The President-Elect. The President-Elect shall automatically succeed to the office of the President at the conclusion of the President's term of office. In the absence of the President, the President-Elect shall exercise the powers and perform the duties of the President. In addition, the President-Elect shall make the committee chair appointments sufficiently far in advance of the Chapters Regional Conference as to permit attendance by the appointees at CRC workshops in the period prior to appointees' active participation as chairs of the Chapter Committees. Chair designees of such committees as Student Activities; Membership Promotion; Research Promotion; Technical, Energy and Government Activities and Chapter Programs should be especially encouraged to attend CRC meetings. Prior to the annual meeting, the President-Elect shall complete the appointments by naming at least two (2) committee members to each of the standing committees of the Chapter.

6.5 The Vice President. In the absence of the President and the President-Elect, the Vice President shall exercise the powers and perform the duties of the President. In addition, such Vice President shall serve as chair of the Program Committee.

6.6 The Financial Secretary. The Financial Secretary shall be responsible for the collection and recording of the chapter dues and for notifying the members of their status. He shall also serve as coordinating officer of the Membership Promotion Committee and be responsible for membership applications and meeting attendance. He shall promptly notify and advise new

5

applicants on all matters pertaining to their application for membership. Collected dues shall be turned over to the custody of the Treasurer promptly.

6.7 The Recording Secretary. The Recording Secretary shall send notices of meetings of the Board of Governors to the Board of Governors, as prescribed in these Bylaws. The Recording Secretary shall keep the minutes of the meetings of the Chapter and of the Board of Governors and shall promptly file a copy of the minutes of each meeting of the Chapter with the Regional Chair and RVC for Chapter Programs. The Recording Secretary shall keep a roll of membership attendance and such books, papers, and records as the Chapter or Board of Governors may direct, which shall be open to the inspection of any member of the Board of Governors. The Recording Secretary shall send advance notices and minutes of meetings of the Board of Governors to the Regional Chair. In addition, the Recording Secretary shall send the Chapter newsletter to the Editor of the official publication of the Society. The Corresponding Secretary shall send notices of meetings of the Chapter to the members, shall maintain a membership roster of the Chapter, and shall conduct such correspondence of the Chapter as may be directed by the Board of Governors.

6.8 The Treasurer. The Treasurer shall receive all funds, including dues, fees, charges and other assessments, and shall deposit such funds in the name of the Chapter in banks or other depositories. The Treasurer shall disburse funds only as authorized by the Chapter's Board of Governors and shall keep appropriate records of receipts and expenses and shall exhibit such records at all reasonable times to any member of the Board of Governors. The Treasurer shall make a full financial report at the annual meeting of the Chapter, a copy of which shall be forwarded to the Regional Chair. In addition, in the absence of contrary written instructions from the Society, the Treasurer shall complete, execute and file any statements or returns incidental to federal or local taxation.

6.9 Additional Duties. All officers shall perform all duties incident to their respective offices and such other duties as are prescribed by these Bylaws or as are assigned by the Board of Governors.

6

ARTICLE VII - NOMINATIONS, ELECTIONS, VACANCIES, AND REMOVAL

7.1 Eligibility for Re-election. Officers and Board members are elected for one-year terms, but may be re-elected to consecutive terms. The president may be re-elected to the same office for one additional consecutive term. If the president is re-elected for an additional consecutive term, the president-elect will also need to be re-elected in accordance with the election procedure set forth in Section VII.

7.2 Duties of Nominating Committee. The Nominating Committee shall select from the members eligible to hold office one candidate for each office except President, and for each member to be elected to the Board of Governors and shall obtain from each candidate a written statement that the candidate is a member in good standing in the Society and consents to stand for election. Not less than thirty (30) days before the April meeting the Nominating Committee shall present to the Secretary the names of the candidates selected, together with their statements. They shall also submit the names of three appointees to the Auditing Committee for Board approval.

7.3 Duties of Recording Secretary. Upon receipt of these names from the Nominating Committee, the Recording Secretary shall prepare a list of the candidates and shall forward such list to all members with voting rights at least ten (10) days prior to such meeting.

7.4 Nomination by Members. Additional nominations of members in good standing who consent orally or in writing to be candidates may be made from the floor at such meeting. If at this meeting more than one such nomination from the floor is made for any one office or membership on the Board of Governors, a vote shall be taken to select the name of the opposition candidate to be placed on the ballot.

7.5 Voting and Election. Not less than ten (10) days prior to the next meeting, the Secretary shall send a mail ballot, in the case of elections by mail, or a proxy statement, in the case of elections at meetings, to all members with voting rights. In the case of elections at meetings, the President shall appoint three (3) tellers to assist in conducting the election. The Board of Governors or the tellers, if any, shall promptly tally all votes.

7

The candidate receiving a majority of the votes cast for each respective office shall be declared elected. If there is a tie vote, there shall be a run-off election.

7.6 Installation. Officers and members of the Board of Governors shall be installed at the annual meeting of the chapter and shall assume their duties at the start of the next Society year.

7.7 Vacancies. Whenever there shall be a vacancy in any office except President-Elect or a member of the Board of Governors by resignation or otherwise, the Board of Governors shall have the power to fill such office until the next annual election and installation, and such officer shall have the duties, rights, and privileges of the predecessor.

If the President dies, resigns, or is removed from office, the President-Elect shall immediately become President and shall serve for the remainder of the term of the immediate predecessor. If the time served by the President-Elect as President is less than six months, he/she shall continue to serve as President for the next Society year; therefore the office of President-Elect shall remain vacant until the next annual chapter election. If the President-Elect dies, resigns, is removed from office, or becomes President for more than six months in accordance with the foregoing provisions, a special election shall be held to fill the vacancy.

7.8 Removal. Any officer or member of the Board of Governors may be removed by a 2/3 vote of voting members present at a regular meeting, whenever in the judgment of the members, the best interests of the Chapter will be served thereby. The notice of this Chapter meeting shall contain the statement that an item of importance to the Chapter will be presented for action.

ARTICLE VIII - COMMITTEES

8.1 General. All Chapter Committees shall be designated as Standing Committees or Special Committees. Standing Committees are mandatory and are of a continuing nature, while Special Committees are created for a specific purpose and may be dissolved when their functions have been completed.

8

History

8.2 **Appointments.** Except as noted herein, all Standing Committee members and respective Chairs thereof shall be appointed by the President-Elect pursuant to Article 6.4.

8.3 **Standing Committees.** Standing Committees are mandatory and are broken into two categories -- those tied into the CRC and those essential to the Chapter operation. (a) Committees tied into the CRC are the CRC Action; Student Activities; Membership Promotion; Research Promotion; Technical, Energy and Government Activities; Chapter Programs; Honors and Awards; Historical; and Refrigeration. (b) Committees essential to the Chapter operation are Auditing, Nominating, Reception, Publicity, Attendance, Publications or Newsletter, and Special Events. The duties and functions of each Standing Committee (several of which may be combined under a single chair) are as follows:

8.3.1 **CRC Action Committee.** The CRC Action Committee shall determine major items of concern to the Chapter; obtain biographies on possible candidates for Society and regional offices, committees, and various regional and Society honors and awards; provide direction to the delegate and alternate delegate on actions to be presented on the Chapter's behalf at the CRC; and encourage the Chairs of the Student Activities; Membership Promotion; Research Promotion; Technical, Energy and Government Activities; Chapter Programs; Honors and Awards; and Historical Committees to attend the CRC. The Chair of this committee should be a past president of the chapter.

8.3.2 **Student Activities Committee.** The Student Activities Committee shall assist and cooperate with other technical and scientific organizations to influence pre-college (K-12) education in math and science; shall assist in the formation and/or continuing operation of student branches of the chapter; and shall assist with chapter participation in continuing education courses and related activities. The Chair of this Committee, or a designated substitute, is expected to attend the CRC Meeting.

8.3.3 **Membership Promotion Committee.** The Membership Promotion Committee shall encourage applications by persons qualified for membership in the Society; shall encourage increased member participation in Chapter affairs; and shall encourage members to advance in their membership grade in the Society. The Chair of

9

committee, or a designated substitute, is expected to attend the CRC meeting.

8.3.8 **Historical Committee.** The Chapter Historian and/or Historical Committee shall be responsible for collecting data of industry history and its progress. The committee shall collect and safeguard facts, photographs, records and other memorabilia pertinent to the history of the Chapter. The chair of this committee, or a designated substitute, is expected to attend the CRC meeting and report its progress to the Regional Historian.

8.3.9 **Refrigeration Committee.** The Refrigeration Committee shall promote the interests and activities of those members whose primary concern is refrigeration; coordinate their efforts and seek advice from the TEGA Regional Vice Chair and Regional Refrigeration Chair (if applicable); coordinate continuing education by assisting the Student Activities Committee in making arrangements with area educational institutions; arrange for technical talks through the Chapter Programs Committee; and cooperate with the Membership Promotion Committee in identifying potential new members who are refrigeration-oriented. The Regional Refrigeration Chair, or a designated substitute, is expected to attend the CRC meeting.

8.3.10 **Auditing Committee.** The Auditing Committee shall consist of three (3) members, none of whom shall be members of the Board of Governors, and shall elect its own Chair.

8.3.11 **Nominating Committee.** The Nominating Committee shall consist of five (5) members in good standing. One member of the Board of Governors may serve on the Nominating Committee, but not as its Chair. The Committee shall be elected by the Chapter at the January meeting. At the preceding meeting, the Board of Governors shall submit to the members their nominations for the committee. Additional nominations may be made by members from the floor at said meeting. Nominees receiving the five highest number of votes shall be elected. In the case of a tie, there shall be a runoff election, which shall be held at the same meeting. The Nominating Committee shall elect its own Chair.

8.3.12 **Reception Committee.** The Reception Committee shall encourage fellowship among members and shall extend cordial greetings to guests and new members of the Society.

11

this Committee, or a designated substitute, is expected to attend the CRC Meeting.

8.3.4 **Research Promotion Committee.** The Research Promotion Committee shall promote the research activities of the Society by conducting an annual campaign to obtain investments in ASHRAE Research, and shall encourage original and independent research by the members in the sciences of heating, refrigeration and air-conditioning, and in conjunction with the Program Committee, shall encourage lectures, demonstrations and discussions on technical topics of interest for presentation at Chapter meetings. The Chair of this Committee, or a designated substitute, is required to attend the CRC Meeting and Special Regional Committee Meeting when called by Regional Vice Chair for Research Promotion.

8.3.5 **Technical, Energy and Government Activities Committee.** The Technical, Energy and Government Activities Committee shall develop liaison on technical issues with local levels of government, promote and administer the chapter technology and government affairs awards programs, and submit PAOE points related to technical and government activities. The committee shall provide timely reports to the regional vice chair. The chair of this committee, or a designated substitute, is expected to attend the CRC meeting.

8.3.6 **Chapter Programs Committee.** The Chapter Programs Committee shall make arrangements for speakers for programs and technical sessions at chapter meetings including speaker's requirements for equipment, accommodations and travel arrangements, and acting as host throughout the meeting. The committee shall coordinate the efforts of the chapter by making arrangements with area educational institutions for continuing education courses and develop an active "Speakers Bureau" to present talks and seminars to chapters and regions. The chair of this committee, or a designated substitute, is expected to attend the CRC meeting.

8.3.7 **Honors and Awards Committee.** The Honors and Awards Committee shall consist of a chair and at least two (2) additional members, preferably past chapter presidents. The Honors and Awards Committee shall promote the recognition of outstanding chapter members within the chapter, region, Society, associated societies and the community. The committee shall submit names of chapter members to ASHRAE and other organizations for honors and awards given by ASHRAE and other organizations. The chair of this

10

8.3.13 **Publicity Committee.** The Publicity Committee shall publicize the name, purposes and activities of the Chapter in an effort to obtain qualified members; and shall report Chapter activities of public interest to the news media.

8.3.14 **Attendance Committee.** The Attendance Committee shall be responsible for contacting each member of the Chapter prior to each scheduled meeting or event to ensure that they have received notice of that meeting or event, and to ascertain the expected attendance.

8.3.15 **Publications or Newsletter Committee.** The Publications Committee shall obtain news of interest to the Chapter members and supervise the publishing of the Chapter newsletter.

8.3.16 **Special Events Committee.** The Special Events Committee shall handle the arrangements for any special events to be sponsored by the Chapter, or for other events to which the Chapter membership has been invited.

8.3.17 **Chapter Section Committee.** When a chapter area is defined that is not being provided chapter services, the chapter may form a Chapter Section Committee to start and maintain chapter sections within the chapter area. The chapter president shall name a section representative for each section that will maintain liaison with the chapter.

8.4 **Other Committees.** Additional committees shall be termed as Special Committees and may be appointed at any time by the President, with the advice and approval of the Board of Governors, and shall be announced at the next meeting of the Chapter.

8.5 **Vacancies.** Whenever any member refuses an appointment to a committee or whenever there is a vacancy on any committee by resignation or otherwise, the President shall, with the advice and approval of the Board of Governors, appoint another member to such committee.

8.6 **Removal.** Any committee member appointed or elected may be removed by the person or persons authorized to appoint or elect such member whenever, in their judgment, the best interests of the Chapter will be served thereby, except that the President shall remove a member only with the advice and approval of the Board of Governors.

12

History (Cont'd. from 19)

8.7 Attendance at Board Meetings. Committee Chairs shall attend the meetings of the Board of Governors when so requested by the presiding officer, but shall not be entitled to voting rights at such meetings.

ARTICLE IX - CHAPTERS REGIONAL COMMITTEE

9.1 Election of Delegates. The Board of Governors-elect shall elect from among its members one delegate and one alternate to the Chapters Regional Committee. At least one of said delegates shall be an officer-elect of the Chapter. The delegates shall be announced at the annual meeting of the Chapter. The names of such delegates shall be certified in writing by the Secretary to the Secretary of the Society and the Regional Chair by the first day of the following June.

9.2 Term. The delegate and alternate delegate shall serve for a term of one (1) year, commencing on the first day of July following their election. No member may be elected to serve as the delegate for more than two (2) consecutive terms; no member may be elected to serve as the alternate delegate for more than two (2) consecutive terms; and no member may be elected to serve in either capacity for more than four (4) consecutive terms.

9.3 Duties. The duties of the delegate and alternate delegate shall be as prescribed from time to time by the Society. They shall transmit recommendations concerning policies, procedures, and operations of the Society, its Chapter and its Student Branches to the Regional Chair in advance of the Chapters Regional Committee Meeting; shall attend such meeting; shall suggest candidates for the Board of Directors of the Society, Society committees, and miscellaneous Society honors and awards; shall participate in the election of one (1) member and one (1) alternate member to serve on the Society Nominating Committee; and shall report to the Board of Governors of the Chapter regarding the business transacted at the Chapters Regional Committee meeting, together with any recommendations for Chapter action.

9.4 Vacancies and Removal. Whenever either delegate is unable to fulfill this office, the Board of Governors shall appoint another delegate. Either delegate may be removed by the Board of Governors whenever, in its judgement, the best interests of the Chapter will be served thereby.

13

ARTICLE X - AMENDMENTS

10.1 Powers and Limitations. All Articles of these Bylaws shall be subject to alteration or repeal, consistent with the Certificate of Consolidation, Bylaws, and Rules of the Board of Directors of the Society and applicable tax regulations for non-profit organizations or corresponding provisions of applicable tax laws.

10.2 By Society. Amendments to these Bylaws set forth in written directives of the Secretary of the Society shall be adopted by a majority of the Board of Governors. Written copies of said amendments shall be sent by the chapter secretary to all members, or an officer of the Chapter shall read said amendments at the next succeeding chapter meeting.

10.3 By Chapter. Amendments to these Bylaws may also be initiated by a written resolution of a majority of the Board of Governors or by not less than five (5) members in good standing with voting privileges and may be presented at any meeting of the Chapter. If approved by a majority of the members present, the chapter secretary shall mail copies of the proposed amendments to all members not less than seven (7) days before the next succeeding meeting. If approved by a two-thirds (2/3) vote at such meeting, the chapter secretary shall forward such amendments to the Secretary of the Society for approval by the Charter and Bylaws Committee of the Society and review by the Regional Chair. Any amendments shall become effective only upon receipt of written notice of approval by the Charter and Bylaws Committee of the Society.

ARTICLE XI - ADOPTION

These Bylaws shall be completed and adopted by a majority of the Board of Governors. Written copies of said Bylaws shall be sent by the Secretary to all members and shall be sent, as amended, to such persons as shall, from time to time, become members of the Chapter.

Adopted by the Long Island Chapter:

Date

Chapter President

14

tes/00-09-18
Long Island C&BL.doc

Historian
Elizabeth Jedrlinic

15

BOG Meeting Minutes

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

Roll Call: The above noted individuals were present.

Call to Order

5:20 PM: – 7 people (Frank Paradiso, Andrew Dubel, Bill Artis, Don Kane, Elizabeth Jedrlinic,)

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: 785

- PAOE- Keep updated
- New Letter: Newsletter and meeting notice separate.
1st of the Month: 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)

- Nov meeting: Joint meeting with SMACNA
- Dec meeting: Belimo & Holiday party
- Jan meeting: John Naly
- Feb meeting: DL (To be finalized)
- March meeting: (To be finalized)
- April meeting: DL (To be finalized)/Field trip (Jacob Javits Center/Blue Point Brewery proposed)
- May meeting: Field trip (Covanta field trip) 2. Tuesday (North Shore Towers)
- June meeting: ?
- Other Notes:
Conference Call this Wednesday to finalize the schedule
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
- Need to get all the speaker and topics lined up

Cont'd. on Page 22

BOG Meeting Minutes (Cont'd. from Page 21)

Financial Secretary (Bill Artis)

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

Treasurer (Mathew Vitrano)

- Treasures Report has been received and recorded

Government Affairs (Andrew Blom) [min-500/par-650] Total Points (0)

- 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

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

- Articles/interviews of past president's Potential life-members/fellows
- 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 (0)

- Vendor Book
- 50/50
- Goal 30 (The goal to be found out)
- 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 (475)

- 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 (Cont'd. from Page 22)

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 ASHREA
- Other: There is a Master's Energy management course available to take

YEA (Elizabeth Jedrlnic)

- 2018 Plan Similar events will be organized
- Budget?
- First Event: First event is going to be in November – Brewery or Many Fall Events happening in Long Island 3 people attended.
- Family Day Event: At Belmont Race track October 20th. \$5 Entry.
- 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.

Reception & Attendance (Matt Catan)

- Crushing

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...

- No New Business

Motion to adjourn by Bill Artis 5:58 pm .

Next BOG Meeting

Location: Westbury Manor

Date: 12/11/2018

Time: 5:00PM

Motion to Adjourn

5:58 PM

Join ASHRAE on Social Media!



Social Media

Follow **ASHRAE on Twitter** @ashraenews for up-to-date news, events, and articles about HVAC&R. Search #MyASHRAE on Twitter to see member photos from around the world.

Follow us on [Twitter](#)



Most Popular Tweets

Does It Cost More To Build Green? Benefits include reduced operating costs & construction waste.

Online Thermal Comfort Compliance Tool Included In New ASHRAE User's Manual.

87% of households in the US have #AC, 5% do in India. India's tough choice on air-conditioning and climate.



The November issue of the Journal is tested for binding strength to see how many times a page can be turned before the binding would fail.

Harvard & SUNY Upstate Medical University find that workers are healthier and happier in certified green buildings.

ASHRAE Standard 90.1 has been redefining energy savings since 1975. A new version is available now.

Adapting historical buildings for sustainable reuse.

Get To Know ASHRAE



ASHRAE CERTIFICATIONS

Certification



Certified

ASHRAE, accredited by ANSI under ISO/IEC 17024 for the High-Performance Building Design Professional (HBDP) program, has certified more than 2,000 Built Environmental Professionals.

Energy Assessment

Energy Modeling

Commissioning

Healthcare
Facility Design

High-Performance
Building Design

Building Operations

ASHRAE certification programs:

- Are developed by industry practitioners who understand the knowledge and experience that are expected for superior building design and system operation
- Assure employers and clients of subject mastery
- Serve as a springboard for continued professional development
- Offer an easy-to-apply process

FOR MORE INFORMATION GO TO - <https://www.ashrae.org/education--certification/certification>

ADVERTISEMENTS**PLACE YOUR AD HERE****OR
HERE****OR
HERE****OR
HERE****OR
HERE**

AN AD OR BUSINESS CARD LISTING IS A GREAT WAY TO GET YOUR COMPANY'S NAME IN FRONT OF THE HUNDREDS OF LI CHAPTER MEMEBERS, AND TO HELP SUPPORT THE CHAPTER'S ACTIVITIES.

If you would like to place an advertisement in the Long Island Sounder, please contact our Chapter Financial Secretary, James Hanna @ 718.269.3768 or by email at finsec@ashraeli.org for further details. Thank you.

Rates (includes all issues September-June):

Business Card \$200

Half Page \$500


Triple Size \$350

Full Page \$800

ADVERTISEMENTS

**PLACE YOUR
AD HERE**

MATT ROMANELLI
E-MAIL: MROMANELLI@GIL-BAR.COM



GIL-BAR INDUSTRIES

NEW YORK OFFICE
5 WEST 19TH STREET
NEW YORK, NY 10011
TEL: (212) 331-8272
FAX: (212) 331-8273

LONG ISLAND OFFICE
25 NEWBRIDGE ROAD
HICKSVILLE, NY 11801
TEL: (516) 216-4310
FAX: (516) 869-4042



631-491-1300 x16
FAX 631-491-8551

Ultimate Power Inc.

INDUSTRIAL BURNERS • BOILERS
GAS • OIL • BURNER SERVICE • A/C & INSTALLATION
NATIONAL BOARD CERTIFIED "R" STAMP REPAIR CO.
DDC CONTROL SYSTEMS
MECHANICAL CONTRACTORS FOR OVER 36 YEARS

RONALD MILANO

45 NANCY STREET
WEST BABYLON, NY 11704-1498
EMAIL: RMILANO@ULTIMATE-POWER.COM

Leonard Van Sicklin
President/



Mechanical Services Inc.
• HEATING & AIR CONDITIONING •
• SHEET METAL • SERVICE •

440 Wyandanch Avenue
North Babylon, NY 11704
lv@anronac.com
www.anronac.com

Phone: 631-643-3433
Fax: 631-491-6983
Cell: 631-860-4349

== JAR ==

J. A. Robertson, PE
Mechanical Engineer
HVAC/Plumbing System Design

P.O. Box 4982
Richmond, Virginia 23220
jar4d@alumni.virginia.edu
Licensed: DC/MD/VA

**PLACE YOUR
AD HERE**

**PLACE YOUR
AD HERE**

Frank D. Morgigno - President/CEO fm@atiofny.com



90 Plant Ave. • Ste. 110 • Hauppauge, NY 11708
Tel: 631-331-0215 • Fax: 631-928-4625
www.atiofny.com

SIEMENS

Industry

Siemens Industry, Inc.
Building Technologies Division

50 Orville Drive
Bohemia, NY 11716
USA

Tel: +1 631 218-1000 Ext. 214
Fax: +1 631 218-1009
Mobile: +1 516 924-2913
vincent.catalano@siemens.com
usa.siemens.com/buildingtechnologies

Vincent Catalano, C.E.M.
Account Manager

chimney
DESIGN
solutions®

134 W. 29TH ST., 11TH FL., NY, NY 10001
800-685-7077 FAX: 212-685-4777
chimney design solutions.com

**PLACE YOUR
AD HERE**

ADVERTISEMENTS

**PLACE YOUR
AD HERE**

Advertising Rates:

Business Card \$200

Triple Size \$350

Half Page \$500

Full Page \$800

