



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

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President's Message

Thank you all who attended our March meeting. We had a very informative presentation by Lou Vorsteveld on optimizing boiler efficiency.

As mentioned last month, our April meeting will continue to be a hybrid. For those who are comfortable with in person meetings, we welcome you to attend our traditional style monthly meetings at the Westbury Manor. For our members who are still hesitant about in person events, the meetings will be live streamed.

For the month of April, I would like to remind everyone that ASHRAE's has some really good learning sessions planned. One in particular is UVC fundamental for air and surface disinfection. Another series of interest might be Air to Air energy recovery fundamentals. For additional course and information how to sign up. Please visit ASHRAE's Learning Institute website.

I would also like to remind everyone that our chapter is proceeding with our annual golf outing. The date has been set; May 3rd. Sign up and additional details on our website.



CHAPTER MONTHLY MEETING

DATE:	Tuesday, April 13, 2021
TIME:	6:00 PM - Cocktail Hour (For In-Person Attendees) 7:00 PM - Presentation
LOCATION:	In-Person: Westbury Manor Virtual Please email: Jhanna2@trane.com and xuzhigang@gmail.com for processing Virtual payments as well as live stream web link
FEES:	In-Person: \$50.00 pp Virtual: \$20.00 pp

Lastly and as always, for those who are looking for additional online webinars, ASHRAE Journal has a handful of published seminars. Please visit: <https://www.ashrae.org/technical-resources/supplier-provided-learning/supplier-webinars>

If you have any questions or concerns, please do not hesitate to contact me.

Thank you and I look forward to seeing everyone at our next meeting.

Regards,

James Hanna
President - Long Island Chapter

Long Island Chapter Officers & Committees

ASHRAE 2019/2020 OFFICERS

POSITION	NAME	PHONE	EMAIL
President	James Hanna	718.269.3768	c006@ashrae.net
President-Elect	Matthew Vitrano	212.643.9055	c006pe@ashrae.net
Vice President	Murat Bayramoglu	631.312.8818	c006vp@ashrae.net
Treasurer	Michael Nigro	212.643.9055	c006tr@ashrae.net
Secretary	Elizabeth Jedrlinic	516.490.1621	c006sec@ashrae.net
Board of Governors	Matthew Catan	407.489.6684	c006bog1@ashrae.net
Board of Governors	Michael Razzano	516.805.3084	c006bog2@ashrae.net
Board of Governors	Zhigang Xu		c006bog3@ashrae.net
Board of Governors	Frank Paradiso	631.632.2792	c006bog5@ashrae.net










ASHRAE 2019/2020 COMMITTEES

COMMITTEE	NAME	PHONE	EMAIL
Programs & Special Events	Matthew Vitrano	212.643.9055	c006pe@ashrae.net
Membership (MP)	Michael Razzano	516.805.3084	c006mep@ashrae.net
Refrigeration	Murat Bayramoglu	631.312.8818	c006ref@ashrae.net
Chapter Technology Transfer (CTTC)	Matthew Catan	407.489.6684	c006cttc@ashrae.net
Grassroots Government			c006ggac@ashrae.net
Newsletter Editor	Liset Cordero	212.643.9055	c006ne@ashrae.net
Research Promotion (RP)	Michael Nigro / Matthew Vitrano	212.643.9055	c006rp@ashrae.net
Historian	Zhigang Xu		c006his@ashrae.net
Student Activities (SA)	Elizabeth Jedrlinic	516.490.1621	c006sa@ashrae.net
Young Engineers in ASHRAE (YEA)	Michael Nigro / Elizabeth Jedrlinic	212.643.9055	c006yea@ashrae.net
Webmaster	Frank Paradiso	631.632.2792	c006web@ashrae.net
Nominating	Michael Gerazounis, PE, LEED AP	212.643.9055	nominating@ashraeli.org
Reception & Attendance	Zhigang Xu		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	c006ha@ashrae.net

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Chapter Monthly Meeting - Program for 2019/2020

September 10, 2019 * At Westbury Manor  Dinner Presentation – Builds & NYC Code Compliance Presenter: Ian Nelson Refrigeration Night **1 PDH**	March 9, 2021 * At Westbury Manor  Dinner Presentation - Optimizing Boiler Efficiency Presenter: Lou Vorsteveld Student Activities Night YEA Night **1 PDH**
October 13, 2020 * At Westbury Manor  Dinner Presentation— Perimeter Heating & Cooling: Yesterday, Today, and into the Future Presenter: Andy Siegelson **1 PDH**	April 13, 2021 Dinner Presentation - Accommodating Pipe Movement - Noise & Vibration Presenter: Jeff Davis **1 PDH**
November 10, 2020 * At Westbury Manor  Dinner Presentation-- Applying VRF Systems with 3rd Party Air Handlers Presenter: Brandon Sulikowski Membership Promotion Student Activities Night and YEA Night Resource Promotion Night **1 PDH**	May 3, 2021 * Cherry Valley Club, Garden City, NY ANNUAL GOLF OUTING
December 8, 2020 * At Westbury Manor  Dinner Presentation-- Understanding and Applying HVAC Sensors Presenters: Dave Thomas **1 PDH**	May 11, 2021 Annual Field Trip
January 12, 2021 * At Westbury Manor  Dinner Presentation– Advanced Energy Design Guide for K-12 School Buildings: Achieving Zero Energy Presenter: Thomas H. Phoenix, P.E. FASHRAE, LEED AP **1 PDH**	June 8, 2021 * At Westbury Manor Free Buffet Dinner for Members PAST PRESIDENTS NIGHT & OFFICER INSTALLATION STUDENT SCHOLARSHIPS TO BE AWARDED ASHRAE History Quiz and prize Give-A-Ways
February 9-11, 2021  ASHRAE Virtual Winter Conference	June 2021 - TBD (4pm-8pm) * Dixie II @ Captree State Park Boat Basin, NY ANNUAL FISHING TRIP
February 9, 2021 * At Westbury Manor  Dinner Presentation– C02 Monitoring for Outdoor Airflow and Demand-Controlled Ventilation Presenter: Thomas M. Lawrence, Ph.D., P.E., LEED AP ASHRAE DISTINGUISHED LECTURER **1 PDH** Membership Promotion Night Resource Promotion Night	August 13-15, 2021 CHAPTERS' REGIONAL CONFERENCE (CRC) REGION I
February 16-22, 2021  NATIONAL ENGINEERS WEEK	

Meeting Program



Dinner Presentation

Accommodating Pipe Movement - Noise & Vibration

Presented by

Jeff Davis
Engineering Sales Specialist, NYC
Victaulic

**Attendees
Will Earn
1 PDH!**

DATE:	TUESDAY, APRIL 13, 2021		
Time:	6:00 PM - Cocktails and H'ourderves 7:00 PM - Dinner Presentation	Fee:	\$ 50.00 per person (In-person) \$ 20.00 per person (Virtual)
Location:	<p><u>In-Person Attendees:</u> Westbury Manor, Westbury, NY</p> <p><u>Virtual Attendees:</u> Please email: Jhanna2@trane.com and xuzhigang@gmail.com for processing Virtual payments as well as live stream web link</p>		
Presentation:	<p>This month's presentation will cover the following:</p> <ul style="list-style-type: none"> • Description of how movement effects a piping system • Explanation of what methods are used to accommodate pipe movement • Explanation what methods are used to attenuate noise and vibration • Description of how grooved mechanical products provide solutions for pipe movement and noise and vibration attenuation • Locate and utilize available design data and product information <p>All attendees will receive 1 PDH.</p>		
About our Speaker:	<p>Jeff Davis is an Engineering Sales Specialist at Victaulic. He is responsible for long-term engineering and contractor development on grooved concepts and hydronic balancing through application. He has extensive knowledge of foundry, manufacturing, and application support of grooved concepts. In addition, he has 6 years of extensive training and best practice procedures from IMI-TA in hydronic balancing and controls, performed grooved training for local union hall members and assisted in multiple PDH/CEU presentations for owners, engineers, and contractors. Jeff has been a member of ASHRAE for over 15 years.</p>		

CHAPTER MAY NOT ACT FOR SOCIETY

An International Organization

**The Long Island Chapter is looking for presenters for the remainder of the year.
Please contact us if you are interested in presenting to our membership.**

Long Island Chapter - Past Presidents

1958	H. Campbell, Jr. PE	1989	Mel Deimel
1959	Clyde Alston, PE	1990	Robert Rabell
1960	Sidney Walzer, PE	1991	Gerald Berman
1961	Sidney Gayle	1992	Donald Stahl
1962	William Kane	1993	Ronald Kilcarr
1963	Louis Bloom	1994	Jerald Griliches
1964	Milton Maxwell	1995	Walter Stark
1965	Will Reichenback	1996	Joe Marino
1966	Joseph Minton, PE	1997	Norm Maxwell, PE
1967	Irwin Miller	1998	Alan Goerke, PE
1968	Walter Gilroy	1999	Frank Morgigno
1969	Charles Henry	2000	Michael Gerazounis, PE, LEED AP
1970	William Wright	2001	Ray Schmitt
1971	Louis Lenz	2002	Steven M. Stein, PE
1972	Ronald Levine	2003	Andrew Braum, PE
1973	Henry Schulman	2004	Claudio Darras, P.E.
1974	Myron Goldberg	2005	Craig D. Marshall, P.E.
1975	John N. Haarhaus	2006	John Nally
1976	Richard K. Ennis	2007	Peter Gerazounis, PE, LEED AP
1977	Kenneth A. Graff	2008	Steven Friedman, PE, HFDP, LEED AP
1978	Evans Lizardos, PE, LEED AP	2009	Steven Giammona, P.E., LEED AP
1979	Albert Edelstein	2010	Nancy Román
1980	Ralph Butler	2011	Carolyn Arote
1981	Robert Rose, PE	2012	Brian Simkins, LEED AP
1982	Timothy Murphy, PE	2013	Andrew Manos, LEED AP BD+C
1983	Leon Taub, PE	2014	Richard L. Rosner, P.E.
1984	Raymond Combs	2015	Thomas J. Fields, P.E., LEED AP
1985	Edward W. Hoffmann	2016	Donald Kane, P.E.
1986	Jerome T. Norris, PE	2017	Andrew Dubel, P.E., LEED AP
1987	Abe Rubenstein, PE	2018	Richard Halley
1988	Michael O'Rourke	2019	Frank Paradiso

PAOE POINTS FOR 2020/2021

Chapter Members	Chapter Operations	CTTC	Communi-cations	GGAC	History	Member-ship	Research Promotion	Student Activities	YEA	Chapter PAOE Totals
282	250	850	0	0	215	525	830	425	875	3,970

Student Activities - by Elizabeth Jedrlnic, Student Activities Chair

American Society of Heating, Refrigerating & Air Conditioning Engineers Long Island Chapter, Region 001



WILLIAM S. ARTIS MEMORIAL STUDENT SCHOLARSHIP

The Long Island Chapter awards scholarships annually to those who are well rounded and show an interest in pursuing an engineering career. Eligible entries for the 2020/2021 year must be submitted by May 01, 2021. Scholarships are either \$500 or \$1000 in value.

Application date: _____

Personal information:

Last Name	First	Middle
Home address	City	State
		Zip
School address	City	State
		Zip
Phone #	E-mail address -Home	
Cell #	-School	

Faculty Reference:

Name	Address	Phone #
1.		

Personal Reference:

Name	Address	Phone #
1.		
2.		

Education:

High School:	Location	Years Attended	Graduation Date
College/University	Location	Years Attended	Date graduating
College major	GPA		

Student Activities - by Elizabeth Jedrlnic, Student Activities Chair

American Society of Heating, Refrigerating &
Air Conditioning Engineers
Long Island Chapter, Region 001



**WILLIAM S. ARTIS MEMORIAL
STUDENT SCHOLARSHIP**

Please include an essay: Please describe your interests, activities, goals and why you deserve this scholarship (Attach additional sheets as necessary).

I also agree that my misstatement or omission of any information requested in this application shall be valid reason for rejection of this application. In the event I am selected to receive the application, I agree to attend the local chapter award dinner. The dinner will be free of cost to the award recipient.

No question on this application is asked for the purpose of limiting or excluding any applicant's consideration for reasons proscribed by federal, state or local law, and discussions are based entirely on knowledge, skills and ability. Qualified applicants are considered without regard to race, color, religion, sex, national origin, disability or age to the extent prohibited by law.

Applicant signed

Faculty advisor signed

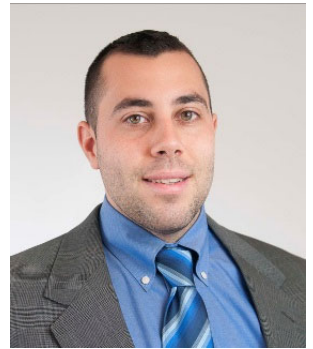
Research Promotion

Hello everyone,

In the next few weeks we will be focusing on getting our 2021 Vendor Book together. We will be sending out emails to anyone who has contributed in the past, but please contact us if you are looking to have your company added! Any vendor in the tri-state area is welcome.

Now that we are going back to in-person meetings at Westbury Manor, we are looking for cocktail hour sponsors. As always, any RP contributions are encouraged! Please email us or speak to us at the meeting if you have any questions.

Michael Nigro
Research Promotion Chair



History

Many historical articles and information can be found on the ASHRAE website, at <https://www.ashrae.org/about-ashrae/ashrae-and-industry-history>. The site includes links to any ASHRAE Journal article back to 1997. Of particular interest may be the histories of the American Society of Heating and Ventilating Engineers (ASHVE) and the American Society of Refrigerating Engineers (ASRE). Included is the history of the merger of these organizations into ASHRAE in 1959.

The Abstract Archives are a member benefit consisting of an online index of abstracts of papers and publications from ASHRAE. It is a useful tool for identifying many papers and articles that are not available through the online bookstore.

Zhigang Xu
History Chairman



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.

Michael Razzano
Membership Promotion Chair

Elizabeth Jedrlinic & Michael Nigro
Membership Promotion Co-Chair

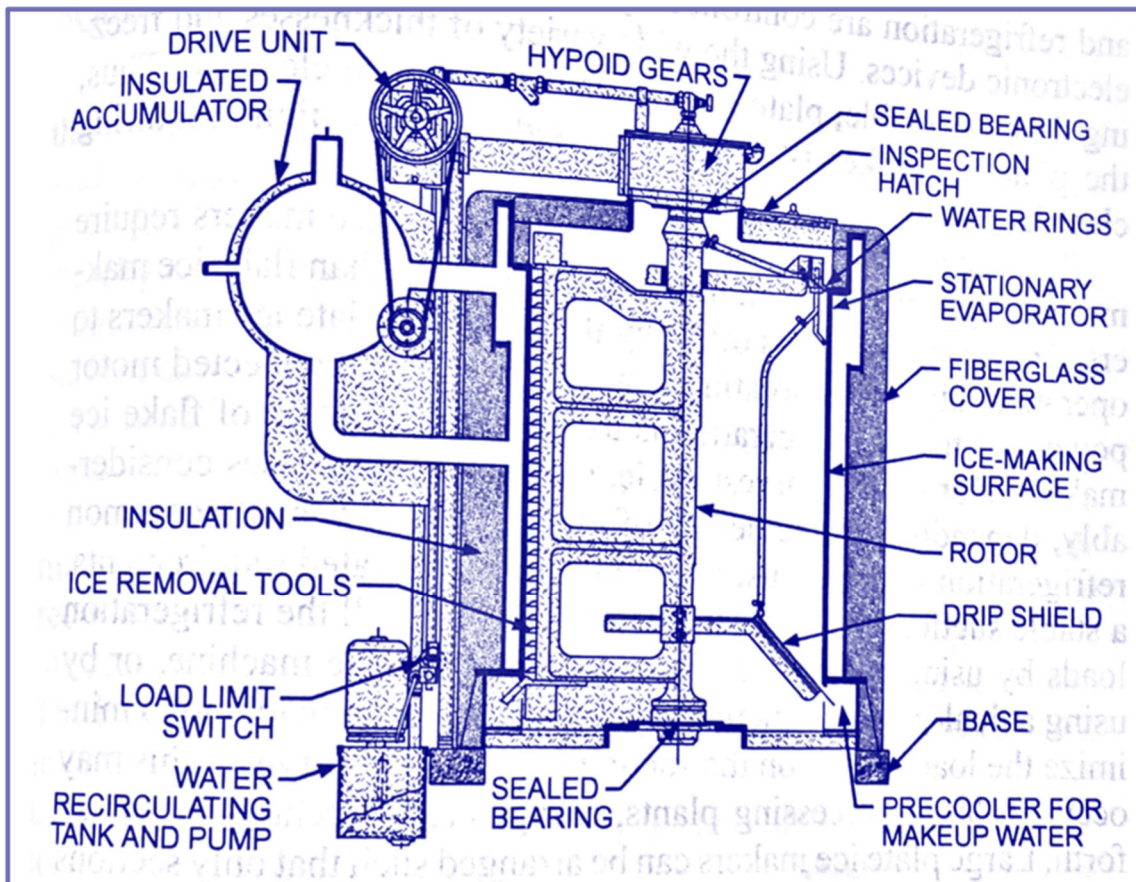


Refrigeration

ICE MAKERS (EXCERPT FROM THE ASHRAE HANDBOOK 2018 CHAPTER 43)

Flake Ice

Flake ice is produced by applying water to the inside of a refrigerated drum. Ice removal devices fracture the thin layer of ice produced on the freezing surface of the ice maker, breaking it free from the freezing surface and allowing it to fall into an ice bin, which is generally located below the ice maker.

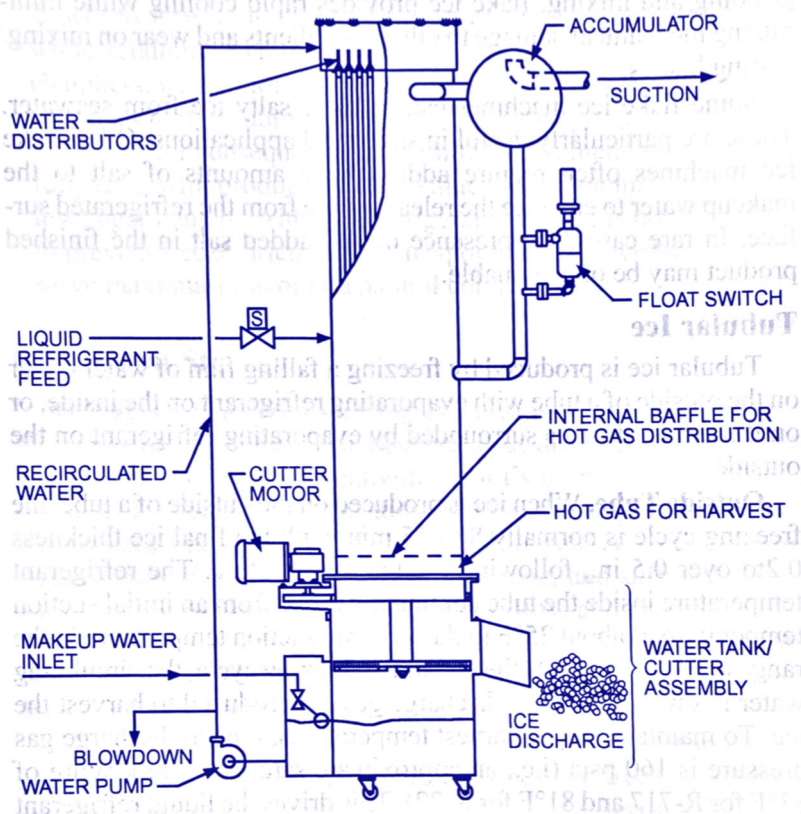


Thickness of ice produced by flake ice machines can be varied by adjusting the speed of the rotating part of the machine, varying evaporator temperature, or regulating water flow on the freezing surface. Flake ice is produced continuously, unlike to tubular and plate ice, which are produced in an intermittent cycle or harvest operation. The resulting thickness ranges from 0.04 to 0.18 inches.

Tubular Ice

Tubular ice is produced by freezing a falling film of water either on the outside of a tube with evaporating refrigerant on the inside, or on the inside of tubes surrounded by evaporating refrigerant on the outside.

Refrigeration



When ice is produced on the outside of a tube the freezing cycle is normally 8 to 15 minutes, with the finalized thickness 0.2 to over 0.5 inches, following the tubes curvature. The refrigerant temperature inside the tube continually drops from an initial suction temperature of about 25 F to the terminal suction temperature in the range of 10 to -15 F. At the end of freezing cycle, the circulating pump is shut off, and hot discharge gas is introduced to harvest the ice. To maintain proper harvest temperatures, typical discharge gas pressure is 160 psia. This drives the liquid refrigerant in the tube up into an accumulator and melts the inside of the tube of ice, which slides down through a sizer and mechanical breaker, and finally down into storage.

Inside Tube

When ice produced inside a tub, it can be harvested as cylinder or as crushed ice. The freezing cycle ranges from 13 to 26 min. Tube diameter is usually 0.9 to 2 inches, producing a cylinder that can be cut to desired lengths. The refrigerant temperature outside the tube drops continually, with an initial temperature of 25°F and a terminal suction temperature ranging from 20 to -5°F. At the end of the freezing cycle, the circulating water is shut off and ice is harvested by introducing hot discharge gas into the refrigerant in the freezing section. To maintain gas temperature, typical discharge gas pressure is 180 psia.

Plate Ice

Plate ice makers commonly defined as those that build ice on a flat vertical surface. Water is applied above freezing plates and flows by gravity over the freezing plates during the freeze cycle. Liquid refrigerant between -5°F and 20°F is contained in circuiting inside the plate. The length of the freezing cycle governs the thickness of ice produced. Ice thickness between 0.25 to 0.75 inches are quite common, with freeze cycles varying from 12 to 45 min.

Ice is harvested by one of two methods. One method involves applying hot gas to the refrigerant circuit to warm the plates to 40 to 50°F, causing the ice surface touching the plate to reach its melting point and thereby release the ice from the plate. In the second method of harvesting ice, warm water flows on the back side of the plate. This heats the refrigerant inside the plate above the ice melting point, and the ice is released.

ASHRAE handbooks provide vast amount of information for engineers at all levels. Take a look.

Murat Bayramoglu
Refrigeration Chair

BOG Meeting Minutes

BOG February Meeting Long Island Chapter

Board of Governors		
President	James Hanna	X
President Elect	Mathew Vitrano	X
Financial Secretary	Murat Bayramoglu	X
Treasurer	Michael Nigro	X
Secretary	Elizabeth Jedrlinic	X
BOG-1		
BOG-2	Mathew Catan	
BOG-3	Michael Razzano	X
BOG-4	Xhigang Xu	
BOG Immediate President	Frank Paradiso	X
Committee Member	Matthew Catan	
Committee Member	Brian Simkins	
Committee Member	Andy Manos	X

President (James Hanna) Chapter Operations [min-600/Par-1200] Total Points: x

Review Minutes
 May 3, 2021 Golf Outing- We signed contract – Start advertising
 Newsletter: Newsletter and meeting notice separate.
 Taxes – Back Taxes pre-liminary copy prepared.
 Start filling out PAOE

Programs (Matt Vitrano)

Field Trip – Locked in with PJ Mechanical!
 March - Rath Associates
 April - ?
 May – PJ Mechanical field (may 11) trip and Golf
 June – Final meeting

Chapter Technology Transfer (Matthew Catan) [min-550/par-1050] Total Points: x

Work with Matt Vitrano (Programs) for PDH certified presentations
 PDH Sign in sheet and Presentation Survey sheets- Virtual sign in sheets currently, paid, invoices out, all covered for this meeting. Potential easier ways for virtual sign in, paypal link.
 Speaker evaluation forms emailed to attendees/ there are blank ones in the box at Westbury Manor

Treasurer (Michael Nigro)

Account status: \$19,193.13
 Any outstanding Invoices or bills?
 (2) \$500 checks for Student Scholarship recipients.
 Budget for the year- chairs to start that.
 Potential in person meetings upcoming, maybe doing something for Westbury manor for being flexible this year.

Government Affairs (James Hanna) [min-500/par-650] Total Points x

EJCLI virtually

Historical (Zhigang Xu) [min-100/par-300] Total Points x

Articles/interviews of past president's Potential life-members/fellows or historical journal articles.
 Frank P.
 History boards location- get picture of the board

Honors and Awards Chair (Brian Simkins)

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

Research Promotion (Michael Nigro, Matthew Vitrano) [min-800/par-1050] Total Points x

Vendor Book status
 50/50 – In person meetings only
 RP Goal is: \$20,400, what % are we up to?

BOG Meeting Minutes

Refrigeration (Murat Bayramoglu)

Reach out to a local company for a refrigeration company profile?

Membership Promotion (Michael Razzano, Co-chairs, Elizabeth Jedrlinic, Michael Nigro) [min-500/par-800] Total Points X

Membership Upgrades: 276 members, 30 students (any changes ?)

Discussion/suggestions on increasing chapter meeting attendance & Increase chapter membership:.

Hardship Notice from ASHRAE.

Student Activities (Elizabeth Jedrlinic) [min-500/par-800] Total Points X

Stony Brook, Suffolk Community College, Hofstra, NYIT and others.

Discuss which local universities/colleges student chapters are active and which can be re-activated.

Stonybrook Chapter- Virtual meetings?

Start distributing "William Artis Memorial" Student Scholarship applications to student chapters- due 5/1/21

Scholarships. Grants due December 2020- Had an applicant from NYU who did not get it but applied.

Get Stony Brook president membership renewed.

YEA (Michael Nigro / co-chair Elizabeth Jedrlinic) [min-300/par-800] Total Points X

Collaborate with Membership Promotion and Student Activities for Social events throughout the year in order to interest new chapter involvement, volunteers etc.

Keep monitoring how the year goes and respond accordingly.

NYC virtual game night. Request to see how that went, options to send to LI YEA if there is another one.

Reception & Attendance (Mike Razzano / Zhigang Xu)

Actively monitor membership list at reception. Need to make a list of virtual attendees

Electronic Communications [min-250/par-650] (50)

Recovery of old address (Still Ongoing)

Email from Tom Fields, will investigate

Add Historical Newsletters to website (2018-19 Chapter year)

E-Communication committee

Webcasting meeting idea for LI chapter (Society hosts go to meeting.)

Looking for consultant to maintain:

Email service / Weebly website / Linked In

Memorial for Bill on the website

Banner for the sponsors on the website if possible.

Golf (Peter Gerazounis/Tom Fields)

May 2021

Contract signed

New Business...

BOG ballots- virtual ballots through constant contact.

June is typical Past Presidents night and Officer installation along with student scholarship awards night....

Thoughts about keeping this night Free for members?

June Fishing Trip- Friday in June: Frank Moves to cover difference in fishing trip, James second.

CRC Happening- Maine?

AHR Expo 2021

Did anyone attend?

I know a lot of our members attend the winter conference to catch up with the continuing education credits. So, for those who are looking for additional webinars, ASHRAE Journal has a long list of online seminars. Please visit:

<https://www.ashrae.org/technical-resources/supplier-provided-learning/supplier-webinars>

Motion to Close: James H. Second: Matt V

Next BOG Meeting

Tuesday, April 13th

Join ASHRAE on 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
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High-Performance
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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
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- Offer an easy-to-apply process

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

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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 by email at finsec@ashraeli.org for further details. Thank you.

Rates (includes all issues September-June):


Business Card \$200
Triple Size \$350

Half Page \$500
Full Page \$800

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Vincent Catalano, C.E.M.
Account Manager

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Craig Marshall, Principal, Accuspec, Inc.

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