

THE LONG ISLAND SOUNDER



Long Island
Chapter

2022-2023

IN THIS ISSUE

President's Message	3
Meeting Program	5
Long Island Chapter Officers	6
Event Flyers	7
Long Island Chapter Past Presidents	9
PAOE	10
History	11
Refrigeration	12
CTTC	13
YEA	15
Government Affairs Committee	16
Membership Promotion	18
Student Activities	19
ASHRAE Certifications	20
ASHRAE 365	21
ASHRAE Conferences	22
Advertisements	23

PRESIDENT'S MESSAGE



PAST PRESIDENTS' NIGHT AT JUNE MEETING

I'm writing this final article as the president of the chapter. It's been an honor to serve the ASHRAE-LI community, and I will keep helping and sharing my experiences with the board as much as possible in the upcoming years. I want to thank our members and sponsors who have supported us. Most importantly, I want to emphasize the importance of our volunteers who served the chapter as BOG, committee chairs, and committee members. We have organized many significant events to reach out to more HVAC-R industry professionals, including engineers, installers, vendors, engineering students, and all other related professionals as the board and committee members. Our goal was to be more public and engage all industry-related professionals. Our chapter has

advantages and disadvantages compared to other chapters. But I can proudly mention that our open-hearted great volunteers make it happen to maintain our chapter in a solid and healthy condition. Again, my gratitude to our lovely volunteers.

We have organized some novel activities that have never been done before, in addition to the monthly meetings at Westbury Manor with one-PDH-accredited presentations. To point out a few of them: we attended to ASPE meeting in November to improve our span over Long Island organizations, YEA organized brewery tours and go-cart races, our Student and Sustainability Chairs visited Jericho High School to connect with students and talk about HVAC-R engineering, Sustainability Chair managed a Sustainability Panel at NYIT for the first time. And special events committee successfully organized our traditional golf outing and many more. Our Government Affairs Chair attended meetings with NYSERDA and ASHRAE-NY Chapters to raise concerns and a resolution for healthcare facilities regarding local laws. We have maintained our membership stable while general memberships were shrinking post covid era. And lastly but not least, the Research and Promotion Chair met the chapter's goal by raising \$28K. Thanks to all of our sponsors and donators. Platinum sponsors are Trane, Carrier Klima NY, and SRS; gold sponsor D&B Solutions; and bronze sponsors Belimo and ATI. And, our guests who helped maintain the chapter operations.

As a president at the beginning of this year, one of my goals was to award the most successful engineers within the Long Island HVAC-R industry professionals to increase our public span. I believe the awarding will increase the chapter's awareness and engagement of the chapter with the community and motivate engineers. Congratulations on our first-time ever-award winner Jonah Allaben from Goldman Copeland Consulting Engineers.

In the past-presidents' night, the Student Activities Committee will award four students with scholarships from various schools, such as; Jericho High School, NYIT, Hofstra, and Farmingdale State University. We are excited to meet with the students and their families at the June meeting.

Finally, new BOG members will be sworn in for their new duties at the June meeting. I want to congratulate all BOG members and committee chairs for their roles and wish them success. To serve the ASHRAE community takes so much voluntary effort, but on the other side of the river, ASHRAE gives back with so many opportunities, such as training, education, and networking. Our careers grow with ASHRAE, and ASHRAE develops with volunteers. I firmly encourage members, young engineers, and those who seek career advancement to join and volunteer for the chapter. These volunteer activities are definitely worthwhile for them.

I hope all Long Islanders enjoy a hazeless summer this year. See you all at the fishing boat trip on July 21st.

Murat Bayramoglu
Chapter President

Chapter Monthly Meeting - Program for 2022/2023

<p>September 13, 2022 * At Westbury Manor</p> <p>Dinner Presentation – Heat Pump and Heat Recovery in Hydronic Systems</p> <p>Presenter: Albert Stark</p> <p style="text-align: right;">**1 PDH**</p>	<p>March 14, 2023 * At Westbury Manor</p> <p>Dinner Presentation— Zero Energy Building with Hydronics Presented by: Max Rohr from Caleffi</p> <p>Construction Law Fundamentals – A Practical Guide. <i>Presented by: Michael Ganz</i></p> <p style="text-align: right;">**1 PDH**</p> <p>Student Activities Night YEA Night</p>
<p>October 11, 2022 * At Westbury Manor</p> <p>Dinner Presentations - HVAC Retrofit Best Practices for GHG Emissions Reduction to Meet the LL97 Mandate presented by Adrian Zebrowski</p> <p>The Impact of the Inflation Reduction Act (IRA) on the Energy Industry presented by Jacob Goodman</p> <p style="text-align: right;">**1 PDH**</p>	<p>April 11, 2023</p> <p>Dinner Presentation— TBA</p> <p style="text-align: right;">**1 PDH**</p>
<p>November 8, 2022 * At Westbury Manor</p> <p>Dinner Presentation—</p> <p>Gasket Technology presented by Stanley Funk</p> <p style="text-align: right;">**1 PDH**</p> <p>Membership Promotion Student Activities Night and YEA Night Resource Promotion Night</p>	<p>May 2023 * Cherry Valley Club, Garden City, NY</p> <p>ANNUAL GOLF OUTING– MAY 8TH</p>
<p>December 13, 2022 * At Westbury Manor</p> <p>Dinner Presentation—</p> <p>Extending Condensing Boiler Heat Exchanger Durability <i>presented by: Kyle Bottorff</i></p> <p style="text-align: right;">**1 PDH**</p>	<p>May 16, 2023</p> <p>Annual Field Trip at <u>Hudson Yards</u></p> <p>*Backup: Empire State Building*</p>
<p>January 10, 2023 * At Westbury Manor</p> <p>Dinner Presentation—</p> <p>Electrical Engineering Fundamentals (for Mechanical Engineers) <i>Presented by: Andy Siegelson</i></p> <p style="text-align: right;">**1 PDH**</p>	<p>June 13th 2023 * At Westbury Manor</p> <p>Free Buffet Dinner for Members</p> <p>PAST PRESIDENTS NIGHT & OFFICER INSTALLATION STUDENT SCHOLARSHIPS TO BE AWARDED ASHRAE History Quiz and prize Give-A-Ways</p>
<p>February 6-8, 2023</p> <p>AHR Expo</p> <p>Location: Atlanta, GA</p>	<p>July 21st 2023 - TBD (4pm-8pm) * Dixie II @ Captree State Park Boat Basin, NY</p> <p>ANNUAL FISHING TRIP</p>
<p>February 21, 2023 * At Westbury Manor</p> <p>Dinner Presentation— Automatic Flow Balancing Presented by: John Knowles</p> <p style="text-align: right;">**1 PDH**</p> <p>Membership Promotion Night Resource Promotion Night</p>	<p>August 2023</p> <p>CHAPTERS' REGIONAL CONFERENCE (CRC) REGION I GRANIT STATE</p>
<p>February 20-26, 2023</p> <p>NATIONAL ENGINEERS WEEK</p>	

Long Island Chapter Officers & Committees

ASHRAE 2022/2023

OFFICERS

POSITION	NAME	EMAIL
President	Murat Bayramoglu	c006@ashrae.net
President-Elect	Michael Nigro	c006pe@ashrae.net
Vice President	Elizabeth Jedrlinic	c006vp@ashrae.net
Treasurer	Michael Razzano	c006tr@ashrae.net
Secretary	Matthew Catan	c006sec@ashrae.net
Board of Governors	Zhigang Xu	c006bog1@ashrae.net
Board of Governors	Rich Smith	c006bog2@ashrae.net
Board of Governors	Michael S. Gerazounis	c006bog3@ashrae.net
Board of Governors	Thomas DiBenedetto	c006bog4@ashrae.net
Board of Governors	Matthew J. Vitrano	c006bog5@ashrae.net

ASHRAE 2022/2023

COMMITTEES

COMMITTEE	NAME	EMAIL
Programs & Special Events	Michael Nigro	c006pe@ashrae.net
Membership (MP)	Michael Razzano	c006mep@ashrae.net
Refrigeration	Matthew J. Vitrano	c006ref@ashrae.net
Chapter Technology Transfer (CTTC)	Thomas DiBenedetto	c006cttc@ashrae.net
Government Activities (GGAC)	Rich Smith	006ggac@ashrae.net
Newsletter Editor	Alexis H. Smith	c006ne@ashrae.net
Research Promotion (RP)	Peter Conte	c006rp@ashrae.net
Historian	Steven Gerazounis	c006his@ashrae.net
Student Activities (SA)	Zhigang Xu	c006sa@ashrae.net
Young Engineers in ASHRAE (YEA)	Michael S. Gerazounis	c006yea@ashrae.net
Webmaster	Frank Paradiso	c006web@ashrae.net
Nominating	Michael Gerazounis, PE, LEED AP	nominating@ashraeli.org
Reception & Attendance	Zhigang Xu / Matt Catan / Michael S. Gerazuonis	reception@ashraeli.org
PR & Engineering Joint Council of LI (EJCLI) Liaison	Andrew Manos, LEED AP	pr@ashraeli.org
Golf Outing	Peter Gerazounis, PE LEED AP	golf@ashraeli.org
Awards	Brian Simkins	c006ha@ashrae.net
ASHRAE LI, P.O. Box 79, Commack, NY 11725		

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2023 FISHING TRIP

WHEN: Friday, July 21st, 2023

WHERE: *DIXIE II*

Captree State Park Boat Basin, NY

TIME: 4PM-8PM

(Please be at dock @ 3:30PM)

Includes Food,
Beverages, Bait & Tackle
(Bring Your Own Beer)

Entry fee per person

\$50

(maximum of 50 people)

Engineer of the Year Award Winner!

Jonah Allaben



Read articles below!

<https://informedinfrastructure.com/82916/ashraes-long-island-chapter-names-jonah-allaben-its-first-ever-engineer-of-the-year/>

<https://www.innovateli.com/long-islands-first-engineer-of-the-year-is-an-hvac-ace/>

Long Island Chapter - Past Presidents

1958	H. Campbell, Jr. PE	1990	Robert Rabell
1959	Clyde Alston, PE	1991	Gerald Berman
1960	Sidney Walzer, PE	1992	Donald Stahl
1961	Sidney Gayle	1993	Ronald Kilcarr
1962	William Kane	1994	Jerald Griliches
1963	Louis Bloom	1995	Walter Stark
1964	Milton Maxwell	1996	Joe Marino
1965	Will Reichenback	1997	Norm Maxwell, PE
1966	Joseph Minton, PE	1998	Alan Goerke, PE
1967	Irwin Miller	1999	Frank Morgigno
1968	Walter Gilroy	2000	Michael Gerazounis, PE, LEED AP
1969	Charles Henry	2001	Ray Schmitt
1970	William Wright	2002	Steven M. Stein, PE
1971	Louis Lenz	2003	Andrew Braum, PE
1972	Ronald Levine	2004	Claudio Darras, P.E.
1973	Henry Schulman	2005	Craig D. Marshall, P.E.
1974	Myron Goldberg	2006	John Nally
1975	John N. Haarhaus	2007	Peter Gerazounis, PE, LEED AP
1976	Richard K. Ennis	2008	Steven Friedman, PE, HFDP, LEED AP
1977	Kenneth A. Graff	2009	Steven Giammona, P.E., LEED AP
1978	Evans Lizardos, PE, LEED AP	2010	Nancy Román
1979	Albert Edelstein	2011	Carolyn Arote
1980	Ralph Butler	2012	Brian Simkins, LEED AP
1981	Robert Rose, PE	2013	Andrew Manos, LEED AP BD+C
1982	Timothy Murphy, PE	2014	Richard L. Rosner, P.E.
1983	Leon Taub, PE	2015	Thomas J. Fields, P.E., LEED AP
1984	Raymond Combs	2016	Donald Kane, P.E.
1985	Edward W. Hoffmann	2017	Andrew Dubel, P.E., LEED AP
1986	Jerome T. Norris, PE	2018	Richard Halley
1987	Abe Rubenstein, PE	2019	Frank Paradiso
1988	Michael O'Rourke	2020	James Hanna
1989	Mel Deimel	2021	Matthew J. Vitrano

PAOE

What is ASHRAE PAOE?

The ASHRAE Presidential Award of Excellence (PAOE) is a society-wide point system to track and reward chapter achievements.

Each year, the Society President establishes the point-earning activities. In this way, chapters are mobilized to work toward common Society goals. Chapters enter points they earn in our online system, and earn awards at the Region and Society level for their achievements and commitment to excellence.

PAOE POINTS FOR 2022/2023

Chapter Members	Chapter Operations	CTTC	Communi-cations	GGAC	History	Member-ship	Research Promotion	Student Activities	YEA	Chapter PAOE Totals
277	805	400	185	100	150	750	475	1000		

FROM: Farooq Mehboob SUBJECT: PRESIDENTIAL AWARD OF EXCELLENCE (PAOE)

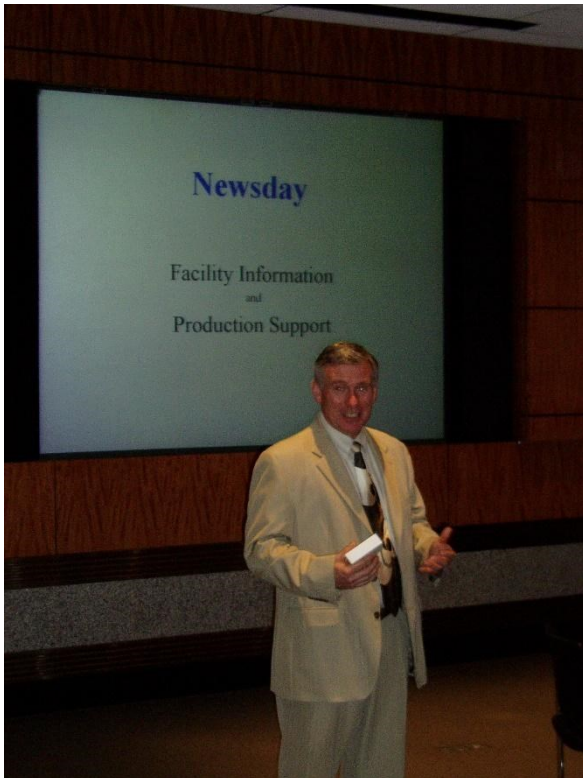
I am writing to you on 'Securing our Future,' a subject near and dear to us for ourselves, our families, and our beloved Society ASHRAE. This is our theme for this society year. We stand today on the threshold of the new era with its challenges, climate, economic and cultural changes to name a few. Yet we have new opportunities which await us in this digital age by global collaboration using the power of our relationships, knowledge and a willingness to change. To secure our future, every one of us needs to participate passionately in a transparent ASHRAE. The bedrock on which we will build our secure future is Diversity, Equity and Inclusion. Only then will we be able to harness the power of our relationships, harvest information in the service of our members, and embrace changes by breaking down silos and overcoming resistance to change. The PAOE system was created to provide guidance to Chapter leaders in planning your chapter activities. The goal of the 2021-2022 PAOE system was to offer a roadmap for successful Chapter operation. This year's PAOE program is designed to move our Society forward as I have explained and help in securing our future.

Historian



Hello All,
Our chapter recently took a field trip to the Empire State Building's mechanical facilities. For this month's history article, I have compiled some pictures from our chapter's field trip to the Newsday mechanical facilities in April 2008. Please enjoy this blast from the past!

- Steven Gerazounis
Historian



Refrigeration



Hello Everyone,

I like to follow the Refrigeration Applications column in the monthly society Journal. This month I read the May 2023 Article “Non Flammable” This article goes into the complicated and serious issues of refrigerant toxicity and flammability.

Here is a link to the article if you would like to read it:

<https://technologyportal.ashrae.org/Journal/ArticleDetail/2501>

- **Pete Conte**

Chairperson

CTTC



CTTC

Spring is in full swing. The days are getting longer, and the cooling season is upon us once more. In both the heating and the cooling seasons, treatment of ventilation air represents a major component of the building energy footprint. In the constant pursuit of increased efficiency and decreased energy consumption, this month's ASHRAE Journal reviews ventilation for hospitals. "Air Quality-Based Ventilation for Hospital Energy Conservation" reviews opportunities to reduce natural gas consumption in hospitals by employing a network of indoor air quality monitoring sensors.

Thomas DiBenedetto
CTTC Chairman

Murat Bayramoglu
CTTC Co-Chairman

Air Quality-Based Ventilation for Hospital Energy Conservation

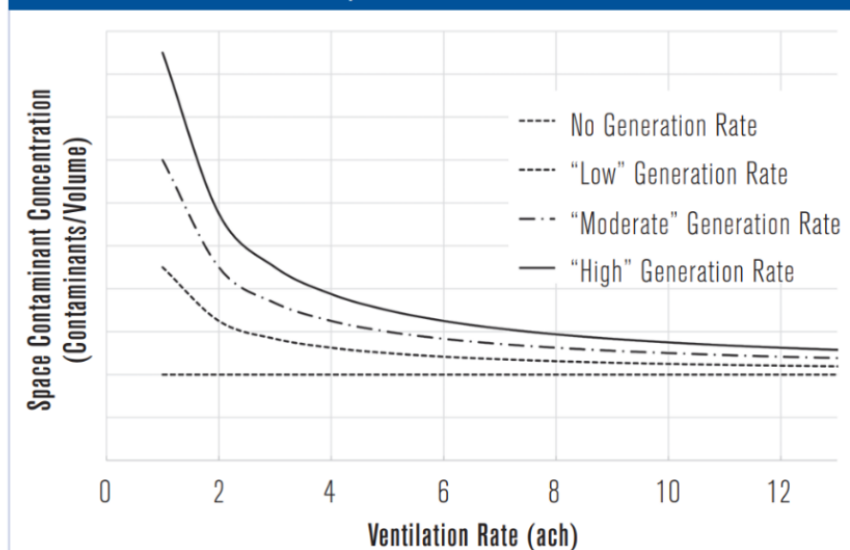
From the May 2023 ASHRAE Journal

Authored by Austin Barolin, P.E. and Travis R. English, P.E.

Article Summary

This article in the May 2023 ASHRAE journal explores the relationship between ventilation rates and contaminant levels. Starting in the 1920s, a ventilation rate of 2 air changes per hour was common, though most wards at the time benefited from natural ventilation. By the 1960s, ventilation requirements were established for different space types and were increased significantly, up to 12 air changes per hour. Around the early 1990's requirements saw a shift back to 2 air changes per hour for ventilation for most space types while also requiring increased total air changes per hour.

FIGURE 1 Theoretical relationship between contamination levels and ach.



CTTC

To test the effects of ventilation on airborne contaminant rates, the project team installed sensors in 76 locations in a hospital and one location on the hospital's roof. Sensors measured temperature, humidity, CO₂, TVOCs, particulates, and ozone. The team then programmed VAV boxes to meet various air change rates and recorded the effects at the sensors. At the time of the project, 2 air changes per hour was the lowest ach for any space in the hospital.

Contrary to the theoretical relationship, CO₂ levels did not increase as zone ACH increased. Throughout testing, all zones were in the range of 500 ppm +/- 50 ppm. Particulate levels, ozone levels, and VOC levels were similarly unaffected by increased ventilation rates. While meaningful changes to indoor air quality were not observed, energy savings relating to decreasing ventilation rates were significant. Fan savings as high as 34% percent were realized during the testing period.

In general, the results of testing show no demonstrable air quality benefit in increasing ventilation rates above 2 air changes per hour. Clean and safe indoor air environments achieved using less ventilation yielded significant energy savings. Boiler natural gas consumption was reduced by 22% to 29%, and fan, pump and chilled water electricity was reduced by 31% to 39%.



Leadership Weekend 1.0

Registration for the spring YEA Leadership Weekend is still open until February 24th! This event will be hosted in Miami, Florida from March 17th through the 19th . Please visit the link below for additional information on this event.

<https://www.ashrae.org/communities/young-engineers-in-ashrae-yea/yea-events-and-programs/yea-leadership-weekend>

Leadership Weekend 2.0

Additionally, registration for Leadership Weekend 2.0 is open until March 16th. If you had previously attended 1.0 last year, please look into this event as Ralph expands upon the skills taught during 1.0.

LeaDRS

Similar to the Leadership U program, LeaDRS, allows a region to select any ASHRAE member to shadow their Director and Regional Chair (DRC) at an ASHRAE Conference. To apply for this program you must contact the DRC directly. For Long Island that would be Steven Sill.

Region	DRC	Email
Region I	Mr. Steven C Sill	r01drc@ashrae.net

- Michael Steven Gerazounis

YEA



Government Affairs Committee (GAC)

**Government Affairs ASHRAE Year in Review
 Busy Year for Gov't Affairs and ASHRAE**

If you haven't noticed the hysteria all around you about climate change and the Evil Refrigerants that need replacement immediately, it's time you come out of the shelter and see.

Conflicting State and Federal goals have thrown a wet blanket on any chance of a smooth transition to the next generation of refrigerants. The settled Science is anything But settled and now that a more destructive pursuit of aggression against Natural Gas and other less clean fossil fuels heats up the Electric Grid readiness plans are a Friggin' Joke. Our Power Authorities are thinking 25–30-year plan for development, but the Climate scientist are pushing for 2-3 Years on all new construction.

The second Obstacle is the Classification of the new refrigerants as A2 and A2L – No Bueno says the NYFD. With the Advent of VRF systems now being designed in high rise buildings the presence of Flammable gas present creates a major safety hazard for Fire Personnel.

The Third challenge is even worse.... NY State Adopted a 20yr GWP strategy abandoning the EPA 100-year guideline. This Obliterated all the proposed refrigerants completely. The Governor upon realizing this attempted to reverse course but was overturned by the NY State Senate. Here are some details presented to ASHRAE LI:

		Standard 100-Year GWP	Latest 100-Year GWP	20-Year GWP	ASHRAE
High GWP	R-134a	1430	1530	3710	A1
	R-410a	2088	2256	4260	A1
EPA 700-300 GWP	R-32	675	771	2430	A2L
	R-513a	629	673	1663	A1
	R-454b	465	531	1675	A2L
	R-515b	287	324	490	A1
EPA 150 GWP	R-1234yf / 1234zeE	<1-3	<1-1.4	1-4	A2L
	R-290 (Propane)	3	<1	<1	A3
	R-744 (CO ₂)	1	1	1	A1
	R-717 (Ammonia)	0	0	0	B2



ASHRAE Product Safety Considerations

	ASHRAE Classification		Examples:	
Highly Flammable (3)	A3	B3	Propane Isobutane	A3 A3
Flammable (2)	A2	B2	R-152a	A2
Mildly Flammable (2L)	A1	B1	HFO-1234yf	2L
Practically Non-Flammable (1)	A1	B1	R-134a	A1
	Low Toxicity (A)	Higher Toxicity (B)		

14

“Developing the Framework Enabling New York Hospitals to Achieve Their Decarbonization and Resiliency Goals through 2040”

our April 10th & 11th Solutioning Summit in Roosevelt Island, NYC, SchellingPoint was able to consolidate all of your input and recommendations into 101 specific action items. The steering committee along with SchellingPoint has now reviewed these 101 action items and have identified the most critical ones that are needed to form the “Protocol”. These 19 action items are what we refer to as the minimum viable product (MVP).

Basically, we attended a summit broken into specific teams for work on the common objections and obstacles of each group. There were People from Government, Hospital, Utilities, Manufacturers, Funding groups, Agencies in charge of implementing the goals. Upstate and Downstate were all represented at the Summit.

Schelling point help to facilitate all of these concerns through a series of targeted questionnaires based on comments left in feedback areas of this study. I am looking forward to seeing what 19 actions will be the most important to move forward with all parties working together.

This Work continues and as they say there is no rest for the weary. We have broken into groups to work on each specific area identified. The groups input and data will be sent into SchellingPoint who will then create a first draft to be reviewed and submitted as a first look at a plan.

I am happy to announce a new Co-Chair to the GAC: Mr Matt Catan.

Have a Great Summer and Get Ready for a whirlwind when we return in September.

Richard Smith – GAC Chair.

006ggac@ashrae.net

MEMBERSHIP PROMOTION



Did you know that there are four membership grades with different benefits, and that they are based on your time in ASHRAE? Many people enter ASHRAE as students. At the student level, they may not hold office in ASHRAE, BUT can participate in technical committees that essentially shape the industry. In addition, students can begin to network with HVAC professionals and build bridges that will serve them well when they are ready to enter the workforce. In terms of building a solid resume, there is no better way to spend \$25!

After graduation, students can move into an Affiliate Members through the Smart Start Program. For three years this level of membership allows them to keep their fees relatively low while they build their social and professional networks and advance their careers. Another key benefit is they gain access to discounted ASHRAE publications and are eligible for various products.

Affiliate members naturally advance to Associate Members after 3 years. Now that you have experience you are ready to get involved and change the world. Associate Members can participate in the governance of their chapters and take advantage of leadership opportunities all over the globe.

Progressing 12 years forward, you become a Member. At this point, you're confident in your professional skills, comfortable in leadership positions, and well established in the industry. Even better, you are eligible to hold office and vote all the way up at Society level. As an ASHRAE Member, you really can change the world through ASHRAE's global reach.

Unfortunately, none if this is possible if you **allow your membership to lapse**. Even if you've been a member for 20 years, if you allow your membership to expire (90 days past due) you lose your seniority, and the clock goes back to zero when you come back. Don't let this happen to you! Don't lose what you've worked so hard for. Renew your membership and hold your esteemed place in the conversation. Don't forget to check our website at www.ashraeli.org for the most current information about your Long Island chapter.

I would like to informally welcome our new members this month:

1. James Purcell
2. Jafet Tavarez
3. Laura L St Germain
4. Jonathan Rodriguez

Looking forward to another great month and thank you in advance for your support, time and guidance.

Michael H. Razzano
Membership Promotion Chair

Michael Gerazounis
Membership Promotion Co-Chair

Student Activities



We are thrilled to announce the winners of the ASHRAE Long Island Chapter 2023 William S. Artis Memorial Student Scholarship. This scholarship recognizes exceptional students who have displayed outstanding academic achievements and a strong potential for success in the field of HVAC&R (Heating, Ventilation, Air Conditioning, and Refrigeration). After careful consideration, the selection committee has chosen the following outstanding individuals as this year's scholarship recipients:

First Place Winners, \$1000/each:

Noah Svetcov, Jericho High School

Bersu Serin, New York Institute of Technology

Second Place Winners, \$500/each:

Stacy Helen Keppel, Hofstra University

Bensu Cerit, Farmingdale College

We extend our heartfelt congratulations to Noah, Bersu, Stacy, and Bensu on their remarkable achievements. We would like to express our sincere appreciation to all the students who applied for the scholarship. The competition was fierce, and each applicant displayed impressive qualifications, making the selection process challenging for the committee. Your pursuit of knowledge and dedication to the HVAC&R field make us proud as an organization, and we encourage you to continue your pursuit of excellence.

Thank you all for your continued support of ASHRAE Long Island Chapter and our commitment to fostering excellence among the next generation of HVAC&R professionals.

Thanks,

Zhigang Xu

Student Activities Chair

ASHRAE CERTIFICATIONS

Certification



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>

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 Conferences



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CONSIDER CE APPLIED FOR YOUR NEXT COMMERCIAL APPLIED PROJECT

CE APPLIED SUPPORTS:

- Building Owners
- Developers
- Architects
- Engineers
- Contractors

CE Applied provides engineering expertise and applies proper HVAC solutions for a wide range of building environments

CE Applied is an experienced, talented group who strives for excellence with every project. Their high ethical standards provides their customers with peace of mind. They bring value by taking the time to focus on understanding customer needs and by delivering innovative solutions efficiently.



Proud Supporter of ASHRAE New York

NYC Metro Office, 499 Seventh Ave, 6th Floor,
New York, NY 10018 | ceapplied.com



Variable Refrigerant Flow (VRF) Air Conditioning Systems:
Air-Cooled and Water Cooled
Single phase Heat Recovery VRF



Unit Ventilators-Horizontal, Vertical, Hydronic, Steam and DX,
Fan Coil Units



Enthalpic core ERVs 12 inches tall, indoor and outdoor rated
from 600 to 6,000 CFM, Modular configuration, can be site
assembled to eliminate rigging.
Can integrate a chilled water or LG VRF DX Coil.



TOPVEX Energy Recovery Ventilators
GENIOX Energy Recovery Ventilators
CHANGEAIR Vertical Unit Ventilators



Cassette Style, Decorative and Ducted Hydronic Fan Coils



Grow Room HVAC Systems
Air Handling Systems from 1,200 to 44,800 CFM



Custom Energy Recovery Units, Make-Up Air Units,
Air Handling Units, Water or Air Cooled, Horizontal or Vertical



Modular Air Handlers up to 38,000 CFM,
ERV wheels and HRV Plates,
VFDs as Standard, DX Coils, HW or Chilled Water,
Knock-down capable



Horizontal and Vertical Water Sourced Heat Pumps,



Paragon Dedicated Outdoor Air Systems
Gas Fired Make Up Air Units



Packaged Rooftop Units and Split System Air Conditioners

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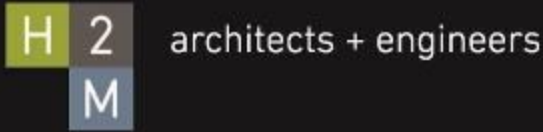


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