

THE LONG ISLAND SOUNDER



Long Island Chapter

2022-2023

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PRESIDENT'S MESSAGE



October Events

ASHRAE-LI board members and committee chairs gathered for the first time this season before the September Chapter monthly meeting at Westbury Manor. I welcome new board members and wish them success in their ASHRAE careers. The board's major topic was how to improve the committee activities more efficiently and effectively by utilizing online tools in our management with the ASHARE website tools. ASHRAE website tools, an excellent asset for chapter committee chairs, will be a guide for all activities that our chapter can utilize in chapter operations and programs. Our motivated board members and the committee chairs will lead a successful season.

Initially, we needed to define success for our chapter operations and set goals based on it. The baseline is to maintain all routine monthly activities, attend all chapter, region, and society meetings, issue the monthly newsletter Long Island Sounder on time and distribute it to all members. Newsletter editing is one of the most challenging tasks that the chapter volunteers bear responsibility for besides their busy work and private life. All these activities require dedication, consistency, and compromise. The Long Island chapter volunteers successfully carry all these features. I can say that all committee chairs are in the process of preparing their committee goals and are determined to achieve them.

On the other hand, we plan to award Long Island HVAC-R industry engineers locally as a new activity. Soon we will announce prerequisites for award nominations, including Design Engineer, Design Project, Sales Engineer, Design Firm, and Energy Analyst of the year. HVAC-R industry design and sales engineers and analysts play a critical role in the quality of life. Long Island Chapter should recognize industry professionals those industry professionals with outstanding performances. I hope we will receive many submissions and consider some of them for national award nominations.

The Long Island chapter will utilize the digital transition more effectively by revising the newsletter and updating the website and vendor book. Using online tools more effectively to reach out to more industry professionals will consolidate our operations. Reasons like our members' job losses or moving out of Long Island caused membership loss during the modern pandemic era. One of our critical goals is to gain a minimum of 25 new Long Island chapter members, including students, this year. We expect support from our members for this ongoing membership battle who may bring new ideas for operational activities to the table.

Lastly, our members can follow our activities through social media for announcements. I encourage our members to join the Engineers Joint Committee of Long Island event next Thursday from 6:00 pm to 9:30 pm at Hilton Garden Inn Melville. And as usual, our chapter meeting is on October 11th at 6:00 pm. I hope to see many members over the next two weeks.

Murat Bayramoglu
Chapter President

Chapter Monthly Meeting - Program for 2022/2023

September 13, 2022 * At Westbury Manor Dinner Presentation – Heat Pump and Heat Recovery in Hydronic Systems Presenter: Albert Stark **1 PDH**	March 7, 2023 * At Westbury Manor Dinner Presentation— TBA Student Activities Night YEA Night **1 PDH**
October 11, 2022 * At Westbury Manor Dinner Presentations - HVAC Retrofit Best Practices for GHG Emission Reduction to meet the LL97 Mandate by Adrian Zebrowski The Impact of the Inflation Reduction Act (IRA) on the Energy Industry presented by Jacob Goodman **1 PDH**	April 11, 2023 Dinner Presentation— TBA **1 PDH**
November 8, 2022 * At Westbury Manor Dinner Presentation— TBA Membership Promotion Student Activities Night and YEA Night Resource Promotion Night **1 PDH**	May 2023 * Cherry Valley Club, Garden City, NY ANNUAL GOLF OUTING
December 13, 2022 * At Westbury Manor Dinner Presentation— TBA **1 PDH**	May 10, 2023 Annual Field Trip
January 10, 2023 * At Westbury Manor Dinner Presentation—TBA **1 PDH**	June 2023 * 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 6-8, 2023 AHR Expo Location: Atlanta, GA	June 2023 - TBD (4pm-8pm) * Dixie II @ Captree State Park Boat Basin, NY ANNUAL FISHING TRIP
February 7, 2023 * At Westbury Manor Dinner Presentation— TBA Membership Promotion Night Resource Promotion Night **1 PDH**	August 2023 CHAPTERS' REGIONAL CONFERENCE (CRC) REGION I GRANIT STATE
February 20-26, 2023 NATIONAL ENGINEERS WEEK	

Long Island Chapter Officers & Committees

ASHRAE 2022/2023 OFFICERS

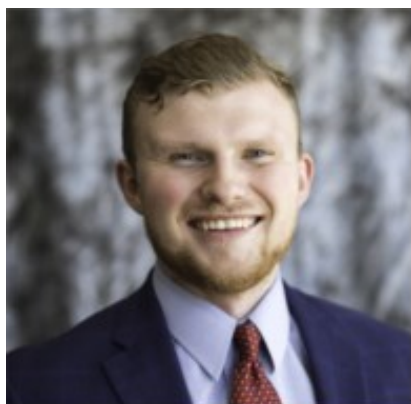
POSITION	NAME	EMAIL
President	Murat Bayramoglu	c006@ashrae.net
President-Elect	Michael Nigro	c006pe@ashrae.net
Vice President	Elizabeth Jedrlinic	c006vp@ashrae.net
Treasurer	Michael Razzano	c006tr@ashrae.net
Secretary	Matthew Catan	c006sec@ashrae.net
Board of Governors	Zhigang Xu	c006bog1@ashrae.net
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 Committee (GAC)	Rich Smith	c006ggac@ashrae.net
Newsletter Editor	Alexis H. Smith	c006ne@ashrae.net
Research Promotion (RP)	Peter Conte	c006rp@ashrae.net
Historian	Chris Mackey	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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Meeting Program



Dinner Presentation

**HVAC Retrofit Best Practices for
GHG Emission Reduction to meet the
LL97 Mandate**

**Attendees
Will Earn
1 PDH!**

Presented by: Adrian Zebrowski

Regional Sales Manager at Armstrong Fluid Technology

DATE:	TUESDAY, OCTOBER 11, 2022		
Time:	6:00 PM - Cocktails and Hors D'oeuvres 7:00 PM - Dinner Presentations 8:45 PM - Conclusion	Fee:	Members - \$50 pp Guests - \$70 pp Students - \$15 pp
Location:	WESTBURY MANOR (516) 333-7117 1100 Jericho Tpke., Westbury, NY 11590 Directions are posted at @ www.ashraeli.org		
Presentation:	<p>This month's presentation will review the following:</p> <ul style="list-style-type: none"> • Objectives and Local Law 97 and Stretch Code • The Future of Emissions Generation • The Road to Emissions Reduction — Lit by Smart Pumps • Chiller Plant Emissions Saving Opportunities • Optimizing Plant Control to Reduce Emissions—Using Data Analytics to Maintain Effectiveness and Efficiency • Real world examples and results <p>All attendees will receive 1 PDH.</p>		
About our Speaker:	<p>Adrian started working at Armstrong as an Application Engineer after graduating with his dual mechanical and aerospace engineering degree from University at Buffalo. As an Application Engineer he helped design HVAC products and systems for the US market. In 2021 Adrian was promoted to become the Regional Sales Manager for Armstrong for the NYC/NJ region further helping engineers to design energy conscious buildings within this region.</p>		

**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.**



Dinner Presentation

The Impact of the Inflation Reduction Act (IRA) on the Energy Industry

Presented by:

Jacob Goodman, LEED AP

Chief Engineer and Vice President of Energy Tax Savers
(ETSI)

DATE:	TUESDAY, OCTOBER 11, 2022		
Time:	6:00 PM - Cocktails and Hors D'oeuvres 7:00 PM - Dinner Presentations 8:45 PM - Conclusion	Fee:	Members - \$50 pp Guests - \$70 pp Students - \$15 pp
Location:	WESTBURY MANOR (516) 333-7117 1100 Jericho Tpke., Westbury, NY 11590 Directions are posted at @ www.ashraeli.org		
Presentation:	<p>This month's presentation will review the following:</p> <p><u>The Impact of the Inflation Reduction Act (IRA) on the Energy Industry</u></p> <p>This presentation is designed to explain the impact of new tax legislation and other tax laws on the energy and building industries. Our presentation will cover how to capture new incentives for HVAC systems and other energy efficiency upgrades that significantly reduce the upfront costs of equipment for building owners, and we will explore newly revived incentives for alternative energy generation systems and energy-efficiency upgrades.</p> <p>All attendees will receive 1 PDH.</p>		
About our Speaker:	<p>Jacob Goldman, LEED AP, is the Chief Engineer and Vice President of Energy Tax Savers (ETSI). He has a Bachelor of Science in Chemical Engineering from the University of Buffalo, and an MBA from the University of Maine at Orono.</p> <p>He is the co-author of numerous articles, published in Building Operating Management, Worship Facilities Magazine, UNIT Magazine, Green Lodging News, International Parking Institute, Corporate Business Taxation Monthly, and Thomson Reuters. He has presented to hundreds of corporations, architectural firms, engineering firms, accounting firms, local chapters of USGBC, IFMA, BOMA, and AEE as well as national conferences of AEE, NFMT, NALMCO, IGSHPA, PIMA, and at the EMC Conference as well. Jacob has also been a consistent speaker at GE's Nela Park and Cooper's "The Source" in Peachtree, GA.</p>		

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	Communications	GAC	History	Membership	Research Promotion	Student Activities	YEA	Chapter PAOE Totals
277										

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.

Research Promotion From June Recap



"If we knew what we're doing it wouldn't be called research"
– Albert Einstein

I would like to thank the companies who have participated in the annual 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.

This year's overall research promotion goal is \$2,593,341 with many research projects on board. Our chapter is expected to raise \$20,400 towards the overall goal. I am hoping that I can count on the continued support of all 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.

Thank you to our contributors:

Individual

John D. Nally
 Michael Gerazounis
 Matthew K. Bendix
 Elizabeth Jedrlinic
 Andrew E. Manos
 Matthew Vitrano
 Michael Nigro
 Murat Bayramoglu
 Michael Steven Gerazounis
 Richard W. Smith
 Michael H. Razzano
 James Hanna
 Frank Paradiso
 Matthew Catan
 Donald Kane
 John C. Cronin, Jr

Companies

H2M Architects + Engineers
 Robert Half
 Trane
 SRS Enterprises
 Accuspec
 Tower Enterprises
 MV Controls
 Metro Air Products
 ADE Group
 Belimo Aircontrols (USA)
 Miller Proctor Nickolas
 Technical Air Systems
 Mitsubishi
 Klima
 Gil-bar
 Victaulic
 Catan Equipment Sales Rathe
 Associates Bush Sales Dagher
 Engineering

CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

- 1) You can mail your checks, made out to ASHRAE Research Promotion:
 Michael Nigro
 ASHRAE Research Promotion Chair
 PO BOX 79
 Commack, NY 11725
- 2) You can bring your check to any of the meetings and hand to myself or Elizabeth.
- 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!

Michael Nigro
Research Promotion Chair

History From June Recap



These days, ductless air conditioning has been taking over the market. Leading ASHRAE and other professional organizations to focus on new standards and guidelines to keep up with its growth and popularity. But have you ever wondered where it all began?

“Since its introduction in the 1970s, the world has become more familiar with the concept of a ductless air conditioning system as an alternative heat source. Between 1954 and 1968, Japanese enterprises Mitsubishi Electric and Toshiba pioneered the technology. It was created as an upgrade from the window unit. The key objective was to offer cooling to houses and buildings where a more extensive, whole-system approach was either impractical because of space or monetary limitations, but subsequently offered far more pleasant cooling technology. Initially available only as a window air conditioner or a wall-mounted

indoor unit option, the ductless air conditioning system provided enhanced performance, higher efficiency, and the ability to regulate separate zones. The possibility to remotely place the system’s condensing outdoor unit and therefore relocate the sound-bearing components from the living area was a significant benefit in freeing up window space. The fact that the small, compact condensing units could be put in various locations, keeping up with the space-restricted Japanese building practices, while being energy efficient, was one of the major elements in the ductless system’s early popularity. To this day, the worldwide baseline ductless product is a wall-mounted indoor unit, which accounts for approximately 75% of total global mini split system sales. Several manufacturers saw opportunities and introduced additional ductless indoor units, such as floor consoles and ceiling-suspended units to their existing HVAC systems. Concealed ducted-style and concealed ceiling cassette units have also been created, giving the ductless mini splits a new application.”

If you are interested in learning more, you can find the full article here: <https://nordics.ca/ductless-air-conditioning/the-history-of-ductless-air-conditioning/>

Elizabeth Jedrlinic
History Chair

Michael Razzano
History Co-Chair

CTTC



Thomas DiBenedetto
CTTC Chairman

Murat Bayramoglu
CTTC Co-Chairman

With autumn finally here, it's time for pumpkin spice, spooky decorations, and economizer operation. This is the time of year when the clever control strategies developed by the HVACR industry provides occupant comfort at reduced energy costs. While economizer operation has a major impact on building energy usage, it cannot be the only energy savings strategy employed by designers as the emissions reduction requirements of Local Law 97 quickly approach in 2024. As per NYC Local Law 97, NYC is dedicated to reducing aggregate greenhouse gas emissions by 40 percent by 2030 relative to emissions in 2005. This past month's September 2022 issue of the ASHRAE Journal explored another effective energy reduction strategy. "Exploring a Multizone to Variable Volume HVAC Controls Retrofit", authored by Westervelt, Bush, and Schwenk, discusses opportunities of converting constant-volume, multizone air handling units into variable air volume (VAV) systems. Check out the September 2022 issue of the ASHRAE Journal for the full article, or review the summary below. We look forward to seeing you at the next ASHRAE meeting on October 11th to learn about other creative and cutting-edge strategies for reducing energy usage.

Exploring a Multizone to Variable Volume HVAC Controls Retrofit

From the September 2022 ASHRAE Journal

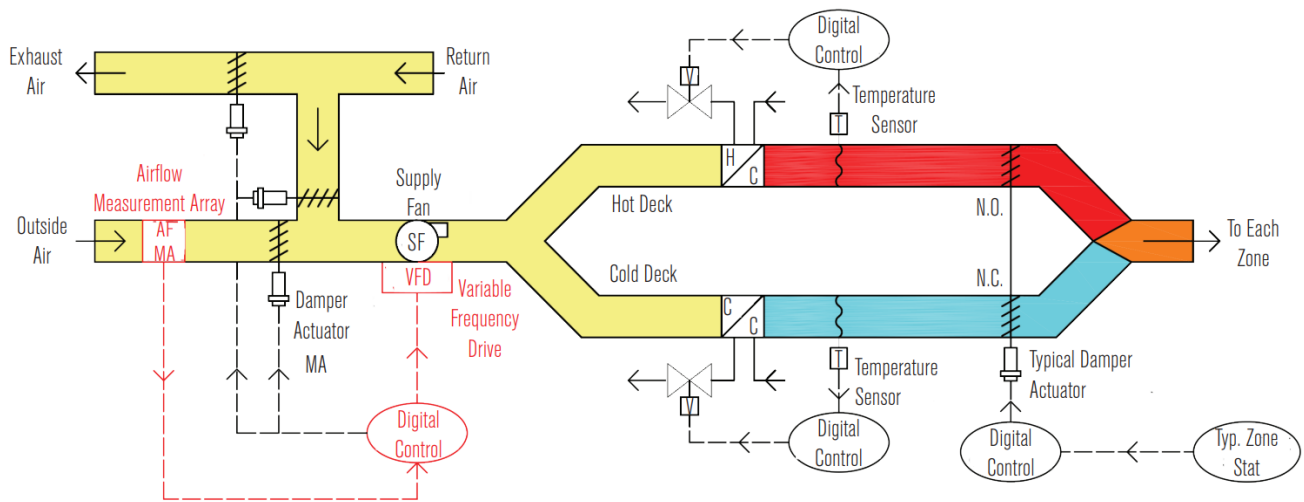
Authored by Eileen T. Westervelt, P.E., Joseph Bush, P.E., and David M. Schwenk

Article Summary

There are thousands of constant-volume, multi-zone air handling units utilized by the U.S. Department of Defense (DOD). While replacing these existing energy hogs with modern variable air volume (VAV) systems would significantly reduce energy usage, this type of replacement can be expensive and highly disruptive to building occupants. Instead of performing a full system replacement, a retrofit may be an attractive alternative. A variable volume retrofit includes the following three components: (1) the addition of a variable frequency drive (VFD) to modulate fan airflow; (2) installation of an outside air measurement station to track outside air quantity; and (3) implementation of controls programming upgrades. One type of multi-zone air handling unit where a variable volume retrofit might be the right approach is a conventional two-deck AHU system. This type of unit has a cooling coil in the cold deck, a heating coil in the hot deck, and linked dampers that modulate to maintain the required supply airflow and temperature. After implementing a variable volume retrofit, the controls system will use the supply fan VFD to modulate airflow to meet the needs of the building zone with the greatest call for space heating or cooling. The fan adjusts speed until this most needy zone damper is near full open (approximately 95 percent open) to its needed heating or cooling coil. The fan speed modulates between its high and low limits, typically 50 percent to 100 percent. The control scheme also disables the heating or cooling coil when that coil is not needed to maintain desired space temperatures.

By increasing the discharge airflow in just the critical zone, the outdoor air requirement can be dramatically reduced, resulting in energy savings from the decreased conditioning requirements at the air handling unit. However, supplying more air to the critical zone beyond what is necessary to satisfy the sensible load requires that the discharge air be

CTTC



The variable volume retrofit also includes varying outside air flow to the minimum required to minimize the energy impact of increased ventilation. Outside air requirements are either met through maintaining a minimum fixed airflow as measured by the airflow monitoring station or controlling airflow via a demand-controlled ventilation sequence. Demand-controlled ventilation significantly improves energy savings over the fixed airflow alternative.

The variable volume retrofit also made use of a binary hot deck temperature to supply either 80 Deg F or 90 Deg F based on the outside air temperature. By providing the upper binary setpoint for a hotter deck air temperature, zones received adequate heating at a lower airflow, allowing the supply fan to modulate to a reduced airflow, resulting in fan energy savings.

All of the proposed retrofit strategies take place within the mechanical room and on the building control system, which minimizes construction costs as well as impact on building occupants. The variable volume retrofit results in both electric and thermal savings at the coils, translating directly into fuel savings at the boilers and chillers. The article reviewed energy savings for five multizone air handling unit systems after implementing the variable volume retrofit strategy. After one year of usage, energy savings ranged from 24 percent to 60 percent as compared to prior to the retrofit.

YEA



Hello everyone, I am your returning YEA chair, Michael Gerazounis. I hope you all are looking forward to another great upcoming year! For all the new members if you are unfamiliar with the YEA committee, its purpose is to provide ASHRAE members 35 years old or younger with opportunities to network, educate and grow themselves through chapter events. Please check back regularly to the newsletter and on ASHRAE's website for all the news and opportunities available. I look forward to seeing as many of you as possible in the upcoming months at AHRAE and YEA events!

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

Leadership Weekend 1.0

Thanks to everyone who registered for the first Leadership Weekend 1.0 of the year. If you missed out on the registration and still want to attend, please send an email to youngengineers@ashrae.org to be placed on the waitlist. The next 1.0 weekend will take place in the spring of 2023.

Leadership U

If you want the opportunity to participate and follow regional and society officers there are two great options to do so! With Leadership U (4) YEA members will be selected for the winter or annual conference and attend all of their respective society officers' events, board meetings and social activities. Applications for this program are open until November 13th. Please look under the YEA Events & Programs tab on the website for more details.

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 I : Mr. Steven C Sill Email: R01drc@ashrae.net

HVAC Design Scholarship

Are you looking for the chance to get a better grasp of the fundamentals and technical aspects to design, install and maintain HVAC systems? YEA has a fantastic program to cover all of those bases with an attendance scholarship for either level I or II training. Applications for this program will begin on October 10th so please be on the lookout to take advantage of this opportunity!

TechnicalCommittees

Are you looking to get more involved with your industry or ASHRAE as a whole? Take a look to see if there are any technical committees that interest you!

<https://ashrae.org/technical-resources/technical-committees>

Getting more involved gives you the opportunity to directly impact our industry and expand your knowledge base. To learn more about these committees you can also reach out via phone or email at:

404-636-8400

tcstaff@ashrae.net

YEA Awards

So many YEA members are deserving of awards for their hard work, dedication and faithful service to this society but don't receive them because people don't know they are eligible to be nominated. Please look into the numerous awards available for YEA members under the Honors and Awards tab.

<https://www.ashrae.org/communities/young-engineers-in-ashrae-yea/honors-and-awards>

For any awards that you cannot nominate yourself or another YEA member you may need to reach out to your YEA Regional Vice Chair, Society YEA Committee member or Director and Regional Chair to provide them with the information they require to submit a nomination form.

- Michael Steven Gerazounis

YEA

Student Activities



Welcome back! Hope everyone has enjoyed the nice weather in the past weeks. As the clock is ticking, we have a couple of due dates around the corner.

First, the ASHRAE Student Activities Committee is offering two \$1,000 USD **Travel Grants** to help subsidize students to travel to the Winter Conference in Atlanta, Georgia in February 2023.



Applications are due by **September 30, 2022**. So, if interested, apply online NOW:

<https://www.ashrae.org/communities/student-zone/scholarships-and-grants/student-activities-travel-grant>

Second, the **ASHRAE Undergraduate Program Equipment Grants Program** provides grants to engineering, technical and architectural schools worldwide with the goal of increasing student knowledge, learning and awareness of the HVAC&R industry. Grants shall be used to fund equipment and supplies for undergraduate projects and 2-year technical school projects that focus on ASHRAE-related topics. Grants may cover projects lasting from one academic term up to one year.

Early-bird deadline for [Undergraduate Equipment Grant](#) Applications are **November 15, 2022**.

Third, the **ASHRAE 3D Modeling Competition** will provide students with the opportunity to take the first steps in designing a building's HVAC system. This competition will expose students to the process that designers and engineers go through when designing building systems.

2023 ASHRAE 3D Modeling Competition



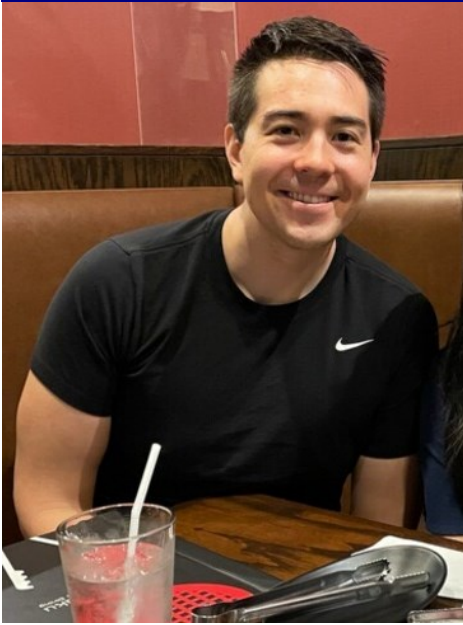
Registration Deadline for [Modeling Competition](#) is the **November 30, 2022**.

Please reach out for more information if you are interested in participating of any of the above programs. I look forward to seeing you in the 2023 ASHRAE Winter Conference!

- Zhigang Xu

Student Activities Chair

Sustainability Committee From September Recap



Hello everyone and welcome to ASHRAE 2022-23! The sustainability committee is a brand new feature of the ASHRAE Long Island Chapter. I will be looking forward to promoting insightful and educational events, meetings and seminars with the broad goal of promoting members to share their engineering knowledge and improve the world around them.

In the US, building emissions are estimated to contribute 777.53 million metric tons of CO₂ equivalent, escalating the rate of climate change on our planet^[1]. In order to mitigate this footprint, legislation has been passed at both the local level^{[2][3]} and at a federal level^[4] to incentivize green energy initiatives and discourage local building emissions.

Building decarbonization is an extremely popular topic in 2022, and I believe nearly all my fellow ASHRAE colleagues have been, or will be affected professionally by this relatively new page in HVACR...

That said, I am extremely excited to kick off this season's first ASHRAE LI Chapter Meeting presentation: *Design Overview of Compressorized Heat-Pump & Heat-Recovery in Hydronic Systems*. My goal is that this presentation will help demystify hydronic-based heating electrification projects from a design perspective. See you at Westbury Manor on 9/13/22!

More events to come, please stay tuned!

[1]. <https://www.epa.gov/ghgemissions/sources-greenhouse-gas-emissions#commercial-and-residential>

[2]. <https://www1.nyc.gov/site/sustainablebuildings/l197/local-law-97.page>

[3]. https://www1.nyc.gov/assets/buildings/local_laws/l154of2021.pdf

[4]. <https://www.congress.gov/bill/117th-congress/house-bill/5376>

- Albert Stark

Government Affairs Committee (GAC)



Day on the Hill- Albany

On September 29th we had our first joint meeting with the ASHRAE Government Affairs Region 1 Members and our Guests from the various representatives from New York City, New York State, NYSERDA, ASHRAE, Industry and Manufacturers. Discussions on Climate Change Policies and Progress as well as an open forum to discuss technical concerns and conflicting policies between the Jurisdictions of NY State and NY City, Yonkers, White Plains and Upstate. As I said in last month's article:

"Oversites point out the need for greater collaboration between the Climate agencies, ASHRAE Society and Policy makers to make sure it all adds up. ASHRAE has joined with NYCERDA to develop the forum with the State and NY City and other Areas where this can take place. Getting us all together we can move in a measured and safe way to ensure that the reduction of our Carbon Footprint is a better transition for all."

To be perfectly honest I didn't have High expectations of meeting people that were willing to listen and ponder the benefits of the collaboration. After All they have the Science done already. I was pleased to find genuine, good people who realize that we have a long way to go to get there and not all the best solutions are here yet. They also realize that the current incentives and penalties need to be reviewed to help certain industries continue to provide appropriate services to their clients.



(Left to Right) ASHRAE Society Presidential Member Darryl Boyce, Brendan Hall – CHA Companies, Joe Berman – NYSERDA , Adam Friedberg – Buro Happold, Julia Casagrande – NYC Mayors Office of Climate & Environmental Justice, Jin Jin Huang – EcoSave, Kandice Cohen – Trane, Artorius Reyes – Regional GAC Chair Ashrae



All things considered it was a successful first step and all of us felt the timing was perfect to work together. Bravo to Our GAC Regional Chair Artorious Reyes and everyone else who made this event a reality.

The Second Panel was a Bonus to all who stayed. The Refrigerant Discussion



(left to right) Helen Walter-Terrinoni – AHRI, Suzanne Hagell – NY State DEC, Artorius Reyes – Regional GAC Chair Ashrae.

The Second Panel was more of a here's a problem – got any ideas?

Reclaiming Refrigerant, Monitoring Leaks, The Move From 410a, Fire safety with Refrigerant.

Important Dates Jan 1, 2023 and Jan 1, 2029 for 410a Phase out.

Here are some Links to the SNAP Information on Refrigerant.

Overview - <https://www.epa.gov/snap/substitutes-refrigeration-and-air-conditioning>

Commercial Refrigeration - <https://www.epa.gov/ozone-layer-protection/transitioning-low-gwp-alternatives-commercial-refrigeration>

Residential and Light Commercial AC - <https://www.epa.gov/snap/transitioning-low-gwp-alternatives-residential-and-light-commercial-air-conditioning>

Richard Smith – GAC Chair

If you would like to be a part of this exciting time speaking and meeting officials reach out to me at the next meeting to be added to the Team.

Rich Smith.

MEMBERSHIP PROMOTION



Last month was a great start to get together! The board has every intention to continue in person meetings, as well as further our membership growth. Speaking of membership growth, I would love to touch base with all our current members and make sure you are up to date on your renewals. You can check your membership status, go over your ASHRAE benefits, look at honors & awards, renew your membership along with so much more by visiting <https://www.ashrae.org/membership>.

This brings me to the next membership point of:

- Why is renewal & uninterrupted membership so important?
- Are you aware there are multiple membership grades with different benefits that are all based on your time in ASHRAE?

To start & as many people enter ASHRAE, they start as students. In my opinion, the only downside of being a student member is not holding office but there are so many positive aspects. Students are permitted to participate in technical committees, which essentially shape the industry. As a student, it also allows them to network with other HVAC professions and forge relationships & explore other potential career paths within the HVAC field. These relationships will help them build bridges that can potentially serve them well when they're ready to enter the workforce. Personally, I think being a student member of ASHRAE & having this on your resume is a great way to spend \$25 each year!

After graduation, students can advance to Affiliate Members. For three (3) years, this membership level allows them to keep their fees relatively low while they continue to build their network & advance their careers. These fees progress from \$60 for the first year to \$90 & finally to \$120 for the 3rd & final year. Some of the added benefits other than access to discounted ASHRAE publications are being able to hold office and vote at the Chapter, Regional & Society levels, access to the technology portal and one eLearning Course or one ASHRAE Standard (PDF version).

Affiliate members naturally advance to Associate Members after 3 years. This now allows you to get more involved in the governance of their chapters and take advantage of leadership opportunities all over the globe. If you are interested in traveling for leadership training, then this is for you!

Following Affiliate Member is Member, which is after 12 years. At this point in your career, you have a well-rounded base of comfort in leadership positions, professional skills & established within the industry. The best part is you are qualified to hold office and vote all the way up to the Society level.

Unfortunately, none of this is possible if you allow your membership to lapse. Even if you've been a member for 20 years, allowing your membership to expire (90 days past due) surrenders your seniority, and the clock goes back to zero when you come back! Please don't let this happen to you! Don't lose what you've worked so hard for and renew your membership. Renewing your membership will allow you to hold your esteemed place in the conversation.

With last year's programs success, we would like to again implement a "Membership Battle". This "Membership Battle" is an employer recognition program that's meant to thank employers for supporting ASHRAE membership, while publicly recognizing employers who support ASHRAE to create value & encourages continued support of ASHRAE membership. The goal of the membership battle is to:

1. Create a competition among employers to help increase membership
2. Recognize employers that support ASHRAE
3. Promote continued support

This “Membership Battle” is relatively simple since we will have (3) categories that will be based on your firm’s size & the “winner” will be based on your percentage growth at the end of the year. The three (3) categories are:

- Small Firms - 20 employees or less
- Medium Firms - 21 to 60 employees
- Large Firms - over 61 employees

The plan is to publish updates within each monthly newsletter & make announcements at each of our monthly meetings. **In order for a firm to be enrolled, I will ask at our next monthly meeting for the firms (this can range from engineering firms to manufacturers, mechanical contractors, architect firms, etc.) that would like to enroll.** PLEASE UPDATE YOUR ASHRAE PROFILE INFORMATION & RESPECTIVE EMPLOYER! From there, I will work with the board to see the actively enrolled members at each firm & access your monthly percentage growth. At the end of the year, the employers with the highest percentage growth in each size category will be presented an ASHRAE plaque & recognized at our final meeting. We will also have another “Honorable Mention” awarded that will be presented to an employer who has all their employees as registered ASHRAE members.

I would also like to informally welcome our new members:

1. Kari Nummelin
2. Chris J Ruscillo
3. Matthew Koppelman

Your Long Island Chapter wishes you many years of partnership and success with ASHRAE! Please contact me with any questions regarding the Smart Start Program and/or ASHRAE membership needs. Also if you have a testimonial about the benefits of ASHRAE that you’d like to share, can you please reach out to me? I can be reached at Michael.H.Razzano@gmail.com.

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

Michael H. Razzano

Membership Promotion Chair

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

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