

THE LONG ISLAND SOUNDER



Long Island
Chapter

2023-2024

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PRESIDENT'S MESSAGE

April Newsletter



Introduction

The ASHRAE LI chapter is continuing the energy and effort to continue our strong start in September. The board members and committee chairs met ahead of the dinner presentation to discuss upcoming programs, joint meetings with other industry professionals, spring field trip, sustainability forums at local universities, government outreach, research promotion milestones, membership promotion/retention, and upcoming YEA events.

Recognition

A SPECIAL THANK YOU to Anthony Abate for presenting and educating our members regarding the New ASHRAE Standard 241 and it's impact on the built environment.

Another **SPECIAL THANK YOU** to all of the Plumbing and HVAC manufacturer's representatives who helped spread the news and attended the joint ASHRAE/ASPE 1st Annual Long Island Trade Show. Hundreds of attendees from students to professionals! Looking forward to hosting again with the LI ASPE chapter next year!

Past Events

1. Great South Bay Brewery tour of refrigeration equipment and brewing processes on December 5th, 2023
2. Sponsor for the Engineers Joint Committee of LI on February 15th, 2024.
3. Delta Sheet Metal for a tour of their factory on Wednesday, February 21st, 2024.
4. 1st Annual Joint LI ASHRAE/ASPE Trade Show on March 12th, 2024.
5. Sustainability Presentation to students at Jericho High School on March 20th, 2024.

Communication

Our chapter continues to utilize and observe a positive impact utilizing online tools more effectively. Through our social media accounts, we frequent update with upcoming YEA events, joint meetings and network opportunities.

Upcoming Events

1. Exhibitor at the PSEG – Electrify Long Island Conference on April 4th, 2024.
2. YEA Event at Farmingdale Axe Throwing on April 25th, 2024.
3. ASHRAE LI Golf Outing on May 6th, 2024
4. Hofstra University Field Trip and Presentation of the new Science and Innovation Center on May 14th, 2024
5. Annual Captree Fishing Trip – June 2024 (Date TBD)
6. ASHRAE LI End of the Year BBQ – June 11th, 2024.

Member Involvement

As our organization is completely volunteer, I urge all who are interested in becoming involved in our organization to please reach out to myself or any of the board members. There are endless of opportunities network, volunteer and grow as an individual.

- M.Nigro

Long Island Chapter President

NY AXE



THURSDAY
APRIL 25, 2024
7PM-9PM



NY Axe Throwing Range
11 Michael Ave,
Farmingdale, NY 11735



\$30
Per
Person

Sponsored by:  **APPLIED**
BUILDING HVAC EXCELLENCE

Chapter Monthly Meeting - Program for 2023/2024

<p>September 12, 2023* <i>At Westbury Manor</i></p> <p>Dinner Presentation – Smart Campuses: New Adaptations of Chilled Water Optimization Demand Flow Technology Strategies</p> <p>Presenter: Mark Benevides & Andrew Kozak</p> <p style="text-align: right;">**1 PDH**</p>	<p>March 12, 2024 * <i>At Westbury Manor</i> Dinner Presentation—</p> <p>Understanding the New ASHRAE Standard 241 and It's Impact on the Built Environment</p> <p>Presenter: Anthony M Abate VP and Chief Technology Officer Clean Air Group Inc.</p> <p style="text-align: right;">**1 PDH**</p> <p>Student Activities Night YEA Night</p>
<p>October 10, 2023* <i>At Westbury Manor</i></p> <p>Dinner Presentations - Domestic Hot Water Heat-Pump— Challenges and Solutions</p> <p><i>Presented by: Scott Shufflebotham</i> Sales Engineer, Daikin Applied</p> <p style="text-align: right;">**1 PDH**</p>	<p>April 10, 2024</p> <p>Dinner Presentation— TBA</p> <p style="text-align: right;">**1 PDH**</p>
<p>November 14, 2023 * <i>At Westbury Manor</i></p> <p>Dinner Presentation— System Air Leakage Test Standard</p> <p>Presented by: William C. Farrell II Senior Project Manager for SMACNA</p> <p style="text-align: right;">**1 PDH**</p> <p>Membership Promotion Student Activities Night and YEA Night Resource Promotion Night</p>	<p>May 2024 * <i>Cherry Valley Club, Garden City, NY</i></p> <p>ANNUAL GOLF OUTING</p>
<p>December 12, 2023 * <i>At Westbury Manor</i></p> <p>Dinner Presentation— Future of Refrigerants</p> <p>By: Steve Kujak</p> <p>**1 PDH**</p>	<p>May 15, 2024</p> <p>Annual Field Trip—TBA</p>
<p>January 9, 2024 * <i>At Westbury Manor</i></p> <p>Dinner Presentation— Humidification By: Andy Siegelson</p> <p>**1 PDH**</p>	<p>June 12th 2024 * <i>At Westbury Manor</i></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 13, 2024</p> <p>Dinner Presentation— What could possibly be new with fin tube, convectors, cabinet heaters, and fan coils?</p> <p>By: John Knowles</p>	<p>July 2024- TBD (4pm-8pm) * <i>Dixie II @ Captree State Park Boat Basin, NY</i></p> <p>ANNUAL FISHING TRIP</p>
<p>February 20, 2024 * <i>At Westbury Manor</i></p> <p>Dinner Presentation— TBA</p> <p style="text-align: right;">**1 PDH**</p> <p>Membership Promotion Night Resource Promotion Night</p>	<p>August 2024</p> <p>CHAPTERS' REGIONAL CONFERENCE (CRC) REGION I GRANIT STATE</p>
<p>February 20-26, 2024</p> <p>NATIONAL ENGINEERS WEEK</p>	

Long Island Chapter Officers & Committees

ASHRAE 2023/2024

OFFICERS

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

ASHRAE 2023/2024

COMMITTEES

COMMITTEE	NAME	EMAIL
Programs & Special Events	Michael Nigro	c006pe@ashrae.net
Membership (MP)	Murat Bayramoglu	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	Thomas DiBenedetto	c006his@ashrae.net
Student Activities (SA)	Zhigang Xu	c006sa@ashrae.net
Young Engineers in ASHRAE (YEA)	Steven 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

Sizing and Selecting Actuators for Control Dampers

Presented by: Rick Smith
Regional Applications Consultant
Northeast Region

**Attendees
Will Earn
1 PDH!**

DATE:	TUESDAY, APRIL, 9TH 2024		
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:	All attendees will receive 1 PDH.		
About our Speaker:	Rick Smith is currently the Regional Applications Consultant (RAC) for Belimo Americas representing the North East Region. Rick started at Belimo as the Network Administrator for the Americas and transferred into field sales and support of Belimo's line of Damper Actuators and Control Valves. After 15 years of supporting HVAC Controls and Mechanical Contractors, Engineering firms and end users, Rick assumed the RAC position to offer his assistance in HVAC related applications in regards to product selection, data analytics and advanced technical training. Rick specializes in the pre and post installation and performance monitoring of Belimo's line of energy saving "smart" actuators, control valves, and IoT end devices. Rick was instrumental in the creation and maintenance of Belimo's Energy Valve Data Analysis Tool which imports data from smart actuators to calculate performance values and energy savings reports.		

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
		2022	Murat Bayramoglu

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

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



“No matter who we are or where we come from, we're all entitled to the basic human rights of clean air to breathe, clean water to drink, and healthy land to call home.”

- Martin Luther King, Jr.

Air filters are an integral part of building HVAC systems both literally and figuratively. Air filters remove particulate matter and contaminants from the air before it is circulated into a building. Air filters play a crucial role in maintaining indoor air quality by capturing dust, pollen, mold spores, bacteria, and other airborne particles. They help to create a cleaner and healthier environment by preventing these contaminants from being circulated through the HVAC system. In the age of COVID, HEPA filters help prevent the spread of viral particles.

Air Health supplied an interesting history of the HEPA filter in the Air + Health blog in 2022. It's well worth the read!

Thomas DiBenedetto, PE; Historian

The History of Air Purifiers and HEPA Filtration

For decades, HEPA filters have been the leading solution for filtering dust, pollen, viruses, germs and much more from the surrounding air. The story of the HEPA filter — which stands for “high-efficiency particulate air” filter — is just as fascinating as how they work. While air purifier history dates back to 1848, when Lewis P. Haslett patented a device using moist wool and a one-way clapper valve, the HEPA filter marked a huge leap forward in purification technology.

Before they were improving air quality for homeowners and office workers, HEPA filters were protecting U.S. soldiers on the World War II battlefield. Here's the full story and how it led to a filter that's still an industry leader well into the 21st century.

The Creation of the HEPA Filter

Before it was part of domestic filtration systems such as the Air Health Skye Portable Air Purifier, HEPA was a top-secret government project. HEPA filter history begins with a piece of paper the British found in a German gas mask early in WWI. They discovered the paper was exceptionally good at capturing chemical smoke. After duplicating it for their own gas masks, the British Army Chemical Corps also incorporated the idea into the “absolute air filter,” a mechanical blower that could purify air at operational headquarters.



Flash forward to 1942. The U.S. was starting the Manhattan Project in Oak Ridge, Tennessee, which led to the first nuclear bomb. They knew they needed a way to protect the nearly 90,000 Manhattan Project workers. Using the British gas mask and absolute filter projects as the groundwork, the U.S. Army Chemical Corps and National Defense Research Committee commissioned a joint project to develop a filter that could remove hazardous radioactive particles from the air.

Working with Nobel Laureate Irving Langmuir, they identified 0.3-micron diameter particles to be the most concerning and focused testing efforts on filtering this particle size. The result was the first HEPA filter, though they weren't officially known as such until the 1960s. Ultimately, these filters weren't effective at reducing the impact of radiation — but they offered excellent protection against chlorine gas, mustard gas and flamethrowers. As such, they were used both at Manhattan Project headquarters and in U.S. soldier gas masks for the remainder of the war.

PRESIDENT'S PAGE

The real meaning of ASHRAE



CECIL BOLING

Frankly, I am not greatly impressed by numbers. One hundred million people can be as wrong as they could be right or vice versa. If numbers alone counted India and China would be of greater significance in the world of today than is our own country.

ASHRAE is far more than the nearly twenty thousand people engaged in a more or less common activity using closely related engineering principles for the consummation of their individual goals.

First, ASHRAE is opportunity — to improve upon things as they are, to broaden the horizons of accomplishment and to insure more efficient and economical use of materials, energies, resources and efforts.

Second, it is figuratively a larger and more easily opened door for the man who has chosen engineering as a career and heating, refrigerating and air conditioning or ventilating as his field for activity.

Third, it is a challenge that we make the most of the inherent possibilities created by this now more broadly enveloping professional society.

Perhaps that sounds rather idealistic; you might have hoped that I would spell out in terms of specific things that would be personally rewarding to you. I do not think that to be the way that a professional society should function nor the way that an engineer should approach his membership in such an organization.

It requires no great study to realize that over the longer interval we must give in order to get and that, in the final sense, the more we give the more we get.

So let us approach the future of ASHRAE with the idea of how much we shall contribute as individuals to the possible progress of our Society, of our companies, of our associates and of ourselves.

Many of us know of the long hours put into the development of Standards, the furthering of the work of committees, the preparation of meetings papers and other lesser chores which may seem to go unrewarded and little noted. I do not think that they are ever purposeless or lacking in true effectiveness. The question is did we give enough to make the activities worthwhile?

As the first president of the American Society of Heating, Refrigerating and Air Conditioning Engineers, I feel that my part presently is to expedite organizational phases of the new Society for the sooner we establish ASHRAE as an operating entity the sooner we may proceed to those broader accomplishments which I envision for 1959 and later years. Other days will present other problems but if we have built well the future will be all that you and I have hoped in even our most optimistic moments.

Research Promotion



“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 \$2,575,000 with many research projects on board. Our chapter is expected to raise \$29,025.00 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. Last year we were successful in beating our goal and am hopeful that this year we can continuously raise the bar.

Thank you to our contributors!

Individuals

Mr. John D. Nally Mr. Matthew K. Catan

Mr. Peter J. Conte, PE

Ms. Elizabeth Jedrlinic

Mr. Andrew E. Manos

Mr. Michael Nigro

Mr. Murat Bayramoglu

Mr. Michael Steven Gerazounis

Mr. Richard W. Smith

Mr. Thomas Arthur DiBenedetto

Mr. Zhigang Xu

Mr. Albert Stark

Mr. Steven Gerazounis

Mr. Frank Paradiso

Mr. Michael H. Razzano

Contributions can be made in the following ways:

1. Mail checks, made out to ASHRAE Research Promotion to:

Peter Conte

ASHRAE Research Promotion Chair

PO BOX 79

Commack, NY 11725

2. Hand check to me at any of the chapter meetings.

3. PayPal from the ASHRAE Long Island Website

Click Donate Button

4. www.ashrae.org

Please make sure you accredit the contribution to the Long Island Chapter 006



- Pete Conte

Chairperson

YEA



Hello everyone, I am your YEA chair, Steven Gerazounis. The purpose of the YEA committee 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 ASHRAE and YEA events!

The YEA group hosted a tour of PJ Mechanical's Delta Sheet Metal Shop factory on February 21st. This was a great opportunity for all who wanted to learn about the entire sheet metal process, from creating shop drawings to fabricating ductwork. We were given a presentation on their operations as well as a tour of their manufacturing facility. Important dialogue was had between engineers, tradesmen, and all ASHRAE members which will help all parties design and build projects more efficiently.

Stay on the lookout as we announce our next event.



YEA Events



YEA Leadership Weekend
1.0

LEARN MORE



YEA Leadership Weekend
2.0

LEARN MORE



YEA Leadership
International

LEARN MORE

YEA Programs



Leadership U

LEARN MORE



LeaDRS

LEARN MORE



HVAC Design Scholarship

LEARN MORE

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

Leadership Weekend 1.0

YEA Leadership Weekend (YLW) is back on March 22nd – 24th in Mexico City! This event is for young professionals who are looking to improve in the areas of leadership, networking, communication, and professional development. YLW is led by Ralph Kison as he guides individuals through a self-discovery process that reveals their strengths, talents, gifts, and passion. In addition, there will be an optional technical tour of the Tower Reforma on March 21st. Please use the link below to register, and hurry if you are interested as registration closes on February 1st!

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

Leadership Weekend 2.0

YEA Leadership Weekend 2.0 (YLW 2.0) is designed to provide additional, more advanced resources to YLW alumni. For this continuation of YLW, Ralph Kison is back to facilitate and expand on the skills he taught at the existing YLW event. As YLW alumni, you've had the opportunity to use the resources and connections you gained at YLW to not only grow your professional careers, but develop your participation within ASHRAE. The purpose of YLW 2.0 is to continue that growth and development, and hopefully inspire even further leadership skills and aspirations! YLW 2.0 will take place May 3rd - 5th in Park City, Utah. Registration opens on January 15th.

<https://www.ashrae.org/communities/young-engineers-in-ashrae-yea/yea-events-and-programs/yea-leadership-weekend-2-0>

Leadership U

If you wanted 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 officer's events, board meetings and social activities. Applications for the 2024 Winter Conference in Chicago are open until October 15th. Please use the link below to register and for more information.

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

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 are now open!

<https://www.ashrae.org/communities/young-engineers-in-ashrae-yea/yea-events-and-programs/yea-scholarship-for-hvac-design-essentials-training>

Technical Committees

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.

Please feel free to reach out to me with any questions or comments about YEA.

- Steven Gerazounis

Government Affairs Committee (GAC)



Enforcement Comes Swiftly

First Arrest of a Greenhouse Gas Smuggler Made in U.S.

A California resident faces charges under a 2020 law that seeks to curb powerful planet-warming and ozone-depleting hydrofluorocarbons.

A San Diego man who allegedly smuggled greenhouse gasses into the United States from Mexico and sold them will be the first person prosecuted under a 2020 law aimed at slowing climate change. According to an indictment against him, Michael Hart, 58, purchased hydrofluorocarbons — chemical compounds commonly used for refrigeration — and smuggled them across the U.S. border in his vehicle, concealed under a tarp and tools.

Hart posted the refrigerants for sale on OfferUp, Facebook Marketplace and other sites, and he sold them for a profit, the indictment alleges. In addition to smuggling greenhouse gasses, the indictment accuses Hart of importing HCFC-22, an ozone-depleting substance regulated under the Clean Air Act.

Hart's prosecution is the first in the United States to include charges related to the [American Innovation and Manufacturing Act](#), a 2020 law that prohibits importation of HFCs without permission from EPA. At the time it was passed, the bipartisan law was considered the [most significant congressional action on climate change](#) in years.

“It is illegal to import certain refrigerants into the United States because of their documented and significantly greater contribution to climate change,” said Todd Kim, head of the Justice Department’s environment division.

Illegal smuggling of HFCs “undermines international efforts to combat climate change,” said David Uhlmann, assistant administrator for EPA’s Office of Enforcement and Compliance Assurance. He noted the [2016 Kigali Amendment to the Montreal Protocol](#) sets a timeline to reduce HFCs 80 to 85 percent by 2047.

<https://www.scientificamerican.com/article/first-arrest-of-greenhouse-gas-smuggler-made-in-us/>

Richard Smith – GAC Chair.

Matt Catan – Co-Chair

006ggac@ashrae.net

Refrigeration



The Refrigeration Committee is back! Check out the EPA approval on new non-flammable substitutes including R-471A & R-515B refrigerants. The article can be found via accessing the below link:

<https://www.achrnews.com/articles/153632-epa-approves-new-refrigerants-for-refrigeration>

As part of its Significant New Alternatives Policy (SNAP) program, the [Environmental Protection Agency \(EPA\)](#) recently issued a determination of acceptability ([Notice 38](#)), which expands the list of acceptable refrigerant substitutes for the refrigeration market. The new substitutes include the nonflammable refrigerants, R-471A and R-515B.

EPA found R-471A (marketed under the trade name Solstice® 471A) acceptable as a substitute for use in:

- Retail food refrigeration—stand-alone equipment (new equipment only);
- Retail food refrigeration—refrigerated food processing and dispensing equipment (new equipment only);
- Retail food refrigeration—remote condensing units (new equipment only);
- Retail food refrigeration—supermarket systems (new equipment only);
- Industrial process refrigeration (new equipment only); and
- Cold storage warehouses (new equipment only).

R-471A, which is classified as an A1 refrigerant, has a GWP of about 144 and an ODP of zero. According to Honeywell, Solstice 471A is 13% more energy efficient as compared to R-404A and 30% more energy efficient compared with CO₂.

- In addition, EPA found R-515B acceptable as a substitute for use in:
- Retail food refrigeration—refrigerated food processing and dispensing equipment (new equipment only);
- Retail food refrigeration—remote condensing units (new equipment only);
- Retail food refrigeration—supermarket systems (new equipment only);
- Commercial ice machines (new equipment only); and
- Cold storage warehouses (new equipment only).

R-515B is also classified as an A1 refrigerant and has a GWP of about 287 and an ODP of zero. For remote condensing units and supermarket systems, EPA states that R-515B's GWP is comparable to or lower than that of other acceptable substitutes for new equipment, such as R-450A (GWP of 601), R-513A (GWP of 630), R-407A (GWP of 2,110), and R-421A (GWP of 2,630).

For additional information on SNAP, visit the SNAP portion of EPA's Ozone Layer Protection website at: www.epa.gov/snap.

Michael H. Razzano
Refrigeration Chair

Kenny Balci
Refrigeration Co-Chair

MEMBERSHIP PROMOTION



The role of the Membership Promotion Committee is to maintain the chapter’s membership growth each year and upgrade membership promotions. Our committee members understand that the membership is the core of our organization and put their volunteer efforts into growing the membership. At the beginning of this season, the Long Island chapter had 272 active members, excluding student members. As of March 4, we have 273 active members and 19 student grade members. This year, we want to reach 280. We only need to add seven more new members by the end of June 2024. We can easily surpass this goal with the contribution of our volunteers. We will promote activities to increase our membership, such as YEA and student activities, panels in Decarb/sustainability topics, and monthly technical presentations. We planned a first-ever showcase at Westbury Manor jointly with ASPE on

March 12, a golf outing in May, and a fishing boat trip in June. Anyone interested in becoming an ASHRAE member can find me or one of our committee members, Liz, Albert, Steve, or Matt. Follow our activities through this newsletter and LinkedIn.

Start Total	Goal	Net Growth Goal	Net Growth Goal %
272	8	280	2%

Here’s the good news. New members can sign up for either Winter or Summer conference for free. I encourage our new members to contact me if they want to sign up for a conference. Students only pay \$25 per year. The Smart Start program is still active. So many different options are available at ashrae.org. Below is the summary of membership benefits.

However, 31 new members were not enough to increase our membership. This means that, during this period, we lost 30 members. As a chapter, we are having difficulties retaining membership. We must work more to increase the number of new members to maintain net positive growth because people are moving, changing jobs, or canceling their membership due to personal reasons. If any current active members have friends interested in joining ASHRAE, please invite them to our monthly meetings. The Chapter has a promotion for our members. If any of our active members brings a guest to the monthly meeting, attending the meeting for the first time, member or non-member, your dinners are on us.

Lastly, I want to welcome our new members. I encourage them to attend monthly meetings to engage with Long Island’s industry professionals and learn from 1 PDH credited presentations. Our meetings at this great venue, Westbury Manor, allow guests to socially engage with free drinks during happy hour. Hope to see you all there.



Adrian Jhansci Diaz Gomez
Glen P. Bornhoft
Anthony Ottaviano
Joseph William Burke
Denny Vayalickollattu Johney
Peter Sgouros
Ethan Peck
Troy Peter Deal
Matthew Steven Burke
Thomas Kenny
Matthew R. Gropper
Zachary Chirinkin
Lance Montalbano Jr.
Kavya Srinidhi Cherolu
Christopher G. Cawley
Ryan Burwell
Laura Heckman
Thomas Naggy
Murat Ertas
Ralph Byers
Christopher R. Mangels
Dimitri Grammatikopolous
Thomas Nagy
Tiffany Gonzales
Michael Yurman
Arthur J Seeberger
Drew Lawrance Maggio
Julian Czerewin
Seth Blumencranz
Zuniga Lazo
Timothy McDermott

Again, I want to welcome and personally invite our new members to our meetings. I encourage our new members to join our committees to volunteer in activities. Volunteering is an excellent path for especially young engineers to steer their careers as they collaborate with various industry professionals.

Membership Promotion Chair
Murat Bayramoglu

Sustainability Committee



The sustainability committee of the ASHRAE Long Island Chapter is 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, and I believe nearly all my fellow ASHRAE colleagues have been, and will continue to be affected professionally by this relatively new page in HVACR...

Albert Stark
ASHRAE LI Sustainability Chair

[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/l1154of2021.pdf

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

Student Activities



The deadline to submit entries for the 2024 ASHRAE HVAC&R Student Paper Competition has been extended to December 18th, 2023. Finalists will present virtually (online) January 8th 2024.

Here's an opportunity to have your research recognized and compete against fellow ASHRAE Student Members.

Papers are being accepted on the following topics:

- HVAC&R technology
- Building services
- Indoor environmental control
- Energy performance of buildings

This competition is open to students and graduates who have completed their bachelor's or master's thesis in 2023. The paper must be based on an accepted thesis. Submissions based on doctoral thesis are not eligible.

The first-place winner will represent ASHRAE at the 2024 World Student Competition, held in Pyeong Chang, Korea during the SAREK Summer Annual Conference, June 19-21, 2024. Travel expenses, hotel and conference registration will be paid by ASHRAE to attend the World competition.

Upcoming Timeline:

December 18th, 2023 – Entrants submit a six-page maximum length paper that is based on an accepted BS or MS thesis. The finalists will be selected, advised, and invited to the next stage.

January 4th, 2024 – Posters are due. The content of the A1-size poster may be used as the basis of a visual presentation to accompany the oral presentation.

January 8th, 2024 – The finalists give a 10-minute virtual presentation.

January 21st, 2024 – Winning papers are announced and presented during the Student Program.

More information about the competition and requirements are available at:

<https://www.ashrae.org/communities/student-zone/competitions/hvac-r-student-paper-competition>

Of course, there are even much more. Explore ASHRAE Student Zone:



<https://www.ashrae.org/communities/student-zone>

Please reach out for more information if you are interested in participating any of the above programs. If you have any suggestions or would like to assist in anyway with student activities, please let me know. I look forward to seeing a lot of young faces for ASHRAE Long Island!

Zhigang Xu

Student Activities Chair

Diversity & Inclusion



Overview

We hope everyone's year is going well and that we finally get that nice Spring weather rolling in!

ASHRAE is committed to providing a welcoming environment. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of everyone. We proactively pursue and celebrate diverse and inclusive communities understanding that doing so fuels better, more creative, and more thoughtful ideas, solutions and strategies for the Society and the communities our Society serves. We respect and welcome all people regardless of age, gender, ethnicity, physical appearance, thought styles, religion, nationality, socioeconomic status, belief systems, sexual orientation or education.

ASHRAE Training Recordings: DEI Foundations & Implicit Bias in Decision-Making

Video Topics include Microaggressions, Equality vs Equity, Cultural Competency, Understanding Implicit Bias in Decision-Making, DEI Foundations

Video Link: <https://presentationaccess.ashrae.org/Index?identity=memberchair>

DEI Suggested Readings:

Blind Spot: Hidden Biases of Good People – Mahzarin R.R. Banaji and Anthony Greenwald

- Thinking Fast Slow - Daniel Kahneman
- The 4 Stages of Psychological Safety: Defining the Path to Inclusion and Innovation – Timothy R. Clark
- The Sum of Us: What Racism Costs Everyone and How We Can Prosper Together - Heather McGhee
- So You Want to Talk About Race – Ijeoma Oluo
- Inclusive Conversations – Mary-Frances Winters
- The 5 Disciplines of Inclusive Leaders – Andres T. Tapia & Alina Polonskaia
- How to Manage Conflicts: 7 Easy Steps to Master Conflict Management, Conflict Resolution, Mediation & Difficult Conversations – Amy Gallo
- Radical Candor – Kim Scott
- Biased: Uncovering the Hidden Prejudice That Shapes What We See, Think and Do – Jennifer Eberhardt
- What Works: Gender Equality by Design – Iris Bohnet
- Disability Visibility: First Person Stories from the 21st Century – Alice Wong
- Men Explain Things to Me – Rebecca Solnit

Members of the ASHRAE Board of Directors Diversity, Equity and Inclusion Subcommittee:

- Kishor Khankari, *Chair*
- Susanna Hanson, *Vice Chair*
- Mahroo Eftekhari
- Cheng Wee Leong
- Heather Schopplein
- Jonathan Smith
- Devin Abellon, *Consultant*
- Dunstan Macauley III, *Consultant*
- Tanisha Meyers-Lisle, *Staff Liaison*

It should come as no surprise that the field of engineering has a diversity problem. Historically an area dominated by white, middle and upper-class men, that legacy remains primarily unabated. Indeed, statistics from U.S. News & World Report paint a troubling picture. The source found that, as of 2022, just 24 percent of the overall engineering workforce in the U.S. was women, which actually marks a slight decline from the previous three years. Furthermore, in terms of racial diversity, the research indicated that African-Americans and Latinos make up a small fraction of the engineering field – amounting to some 12 percent of total workers. The study detailed that engineering continues to be primarily populated by white and Asian individuals, with these two demographics representing 87 percent of the total engineering workforce combined.

The statistics are concerning for a number of reasons. In addition to being a pressing ethical concern nationally, achieving higher levels of diversity in engineering can actually be beneficial to the field in a number of ways. Before an examination of why this is so, it is important to take a closer look at what exactly is meant by the term “diversity.”

What is diversity?

As detailed in an article by Kenneth Gibbs Jr., published in Scientific American, the term “diversity,” in its simplest terms, refers to the presence of difference – in any sense. When employed in this context, however, the word “diversity” signifies difference in terms of people and the identity categories widely used to represent them – categories based on race, gender, sexuality, nationality and so on. As outlined above, the engineering field has a diversity deficit, as men, whites and Asians comprise the majority of the workforce. There is a distinct shortage of women and racial minorities, such as blacks and Latinos.

Attracting women and racial minorities to enter the field of engineering is a challenge, for an array of nuanced reasons that are too complex for complete scrutiny in the article, but it is clear that more needs to be done to bring diverse professionals into the field. As mentioned, the future of engineering depends on a more diverse workforce, for a number of reasons. They include, but are not limited to:

1. Innovation and talent

One of the most compelling reasons why the field of engineering suffers due to a lack of diversity, is, quite simply, the deficit of talent and loss of potential innovation. As Gibbs makes clear, the capacity for success in the sciences, technology, engineering and mathematics is not in any way curtailed innately by race or gender. In other words, women and minorities are no less capable of bringing intellect and innovation to the field. The reason for the lack of participation from these groups is societal and structural, with many unable to access educational opportunities that would make success in this area possible. Additionally, the reputation of engineering as a “man’s field” remains a deeply engrained social assumption, and likely deters many women from pursuing a career in the industry.

As Gibbs noted, his success in the sciences can be attributed to access to resources, a solid education and hard work. If more women and minorities were able to train in the way that so many white men do, they would no doubt be able to contribute enormously to the field in terms of talent and innovation. The lack of diversity, therefore, signals a large absence of the potential for growth and innovation in engineering. As William A. Wulf, president of the National Academy of Engineering explained it, in a speech entitled “The Importance of Engineering in Diversity,” a lack of diversity leads to a countless number of missed opportunities – ideas and potential innovations that are never able to come to fruition on account of barriers determined by socially constructed identity categories. The lack of diversity then, in essence, is a disservice to the field and a disservice to the individuals who have the capacity to succeed as engineers, but are unable to do so.



2. Profit

With greater diversity comes greater economic success, across an array of industries, and engineering is no exception. Indeed, Britain’s Royal Academy of Engineering pointed to a study conducted by McKinsey in 2017, which found that businesses with a high number of female executives tend to perform better financially. The study also noted that companies with a larger number of women among their ranks witness higher job satisfaction ratings among staff. The results are unsurprising. Greater diversity brings a range of perspectives to the table, and with an expanded number of outlooks comes an increase in the likelihood of innovation, growth and subsequent financial success.

4. Fair treatment

Perhaps the most obvious yet no less compelling reason why the engineering field needs to diversify is that, simply, it makes ethical sense. As the U.S. and many other nations continue to make strides toward racial and gender equality, engineering as a profession needs to work to represent an inclusive society and offer fair treatment to those who are qualified. The Royal Academy of Engineering argued that engineering companies should work hard to create pro-diversity hiring practices, while institutions of education should offer incentives for STEM students to encourage a more diverse pool of applicants.

-By Sharon L. Walker

Interim Dean, Bourns College of Engineering

Professor of Chemical and Environmental Engineering

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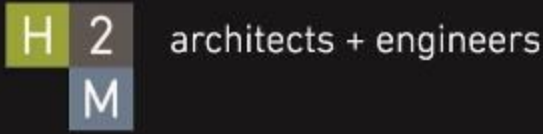


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