

THE LONG ISLAND SOUNDER



Long Island
Chapter

2023-2024

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PRESIDENT'S MESSAGE



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 Mr. Shufflebotham (Sales Engineer, Daikin) for presenting at the October meeting on the challenges and potential solutions regarding Domestic Hot Water Heat Pumps. Mr. Bertuch (Principal of Energy Solutions, Bergmann Associates and ASHRAE RMC) presented to our local

chapter as well regarding this years ASHRAE Initiatives.

Past Events

Unfortunately, our Skeet Shooting Event was cancelled due to the inclement weather. Be on the look out for the next date!

Leadership Weekend 1.0 took place on October 27th – 29th in Chicago. Steven Gerazounis will be giving the chapter an overview of the details and value of the event for our local chapter members.

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

We are currently in the process of planning the next YEA Event. Stay tuned for details!

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

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 13, 2024 <i>* At Westbury Manor</i></p> <p>Dinner Presentation— TBA</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— TBA</p> <p style="text-align: right;">**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— TBA</p> <p style="text-align: right;">**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 6-8, 2024</p> <p>AHR Expo</p> <p>Location: Chicago, IL</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

System Air Leakage Test Standard



Presented by: William C. Farrell II
Senior Project Manager for SMACNA

DATE:	TUESDAY, NOVEMBER 14TH, 2023		
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:	System Air Leakage Test Standard All attendees will receive 1 PDH.		
About our Speaker:	<p>William is a Senior Project Manager for the Sheet Metal and Air Conditioning Contractors' National Association (SMACNA). Mr. Farrell joined SMACNA in 2020 and has been assigned to assisting Members with Technical Inquiries pertaining to SMACNA Standards. William has also been appointed as a voting member to the ICC-PMG Governing Council in addition to sitting on ASHRAE Technical Committees TC 5.06: Control of Fire and Smoke, TC-5.10: Kitchen Ventilation, TC-7.02: HVAC&R Design Build and TC 7.09: Building Commissioning.</p> <p>Mr. Farrell completed the Montana State Sheet Metal Apprenticeship program in 2000; then transitioned from the field into estimating and then project management. In 2007, William moved to Louisiana and continued working as a Senior Mechanical Project Manager across the Gulf South Region focusing on new Healthcare Facilities until joining the Sheet Metal and Air Conditioning Contractors' National Association.</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
		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



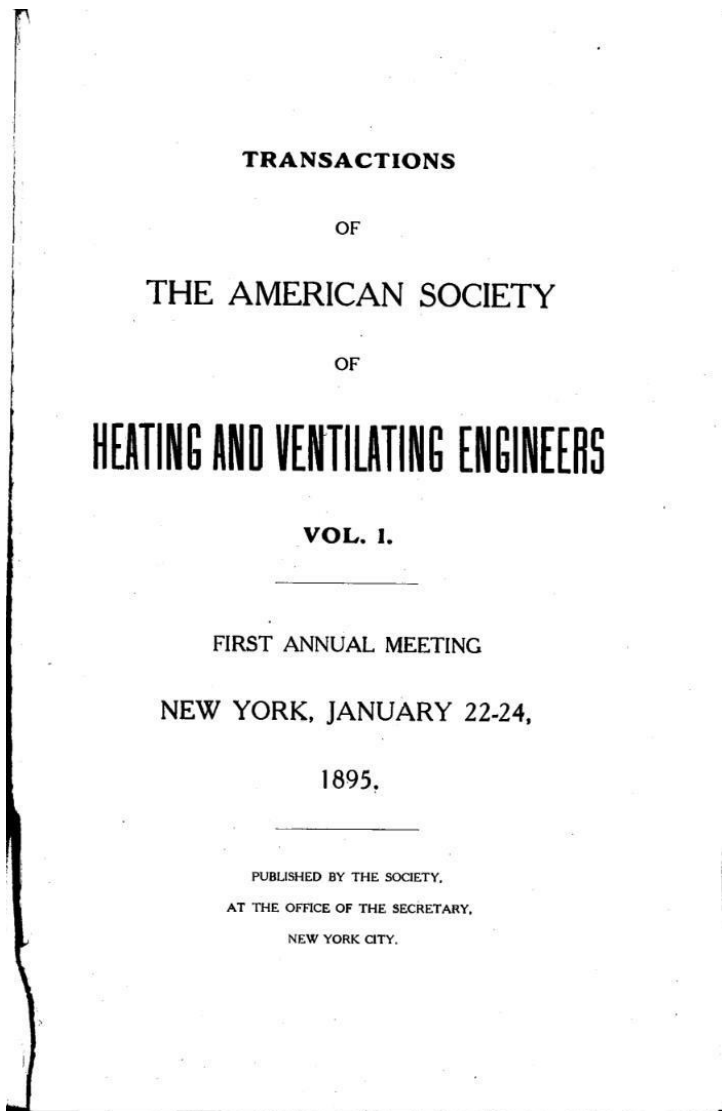
“Those who forget their history are condemned to repeat it.”

- George Santayana (Philosopher)

•
The American Society of Heating and Ventilating Engineers (ASHVE) held its first annual meeting in New York in January, 1895. The preface of that meeting is reproduced below. This document identifies the need for an engineering society, composed of the active workers in the field of heating ventilating work, where subjects of interest to the engineer would be discussed.

ASHVE holds an important role in the founding of ASHRAE as ASHVE, ASHAE, and ASRE merged to form a single organization in 1959.

Thomas DiBenedetto, PE
Historian



PREFACE.

The American Society of Heating and Ventilating Engineers was first talked of, at least with the idea of at once forming such society, during a visit of the present secretary of the society to the office of Hugh J. Barron, New York city, in the summer of 1894. This was just after the annual meeting of the Master Steam and Hot Water Fitters' Association, and while recognizing the great value of that association as a trade organization, it was thought that the time was ripe for a purely engineering society, composed of the active workers in the field of heating and ventilating work, at whose meetings subjects most interesting to the engineer would be discussed. As the result of this interchange of ideas the present secretary took it upon himself to ask the opinions of fifty or seventy-five engineers known to be much interested in their chosen line of work, as to the advisability of forming such an organization.

So many favorable replies were received that invitations were sent out to about twenty-five persons in New York city to come together at the office of *Heating and Ventilation*, 146 World Building, New York, Thursday, August 2, 1894. The following persons responded personally: A. A. Cary, James A. Harding, George B. Cobb, Hugh J. Barron, H. M. Swetland, W. M. Mackay, W. A. Russell, W. B. Wilkinson, Thomas Barwick, F. P. Smith, Albert A. Cryer, Edward A. Munro, Percival H. Seward, O. C. Breckenridge, and L. H. Hart. Mr. Fred. P. Smith was elected temporary chairman and L. H. Hart temporary clerk.

After discussion as to best methods of forming the society, etc., H. J. Barron moved that a committee of five on organization be selected and that a committee of three be appointed to select such a committee.

The committee on organization selected were Messrs. Fred. P. Smith, H. J. Barron, James A. Harding, W. M. Mackay, and A. A. Cary. The committee on organization were authorized to issue invitations and select the place of the next meeting. Motion was made by Mr. Cary, and carried, that those present sign a paper agreeing to form an organization of heating and ventilating engineers, and that they be made charter members. The meeting was then adjourned to September 10, at the call of the committee.

The committee on organization set actively at work correcting

a list of persons who were to be invited to become charter members, and circulars explaining the necessary qualifications were sent out with the invitations. In the meantime the committee worked hard and faithfully, formulating a constitution and by-laws for presentation at the next meeting.

The first regular meeting was called to order at 3 P. M., September 10, 1894, at the Broadway Central Hotel, New York, Mr. F. P. Smith in the chair, L. H. Hart, clerk. Mr. Smith explained the objects, advantages, and policy of the proposed organization.

Roll call found that 75 persons had become charter members. The present constitution and by-laws were adopted after some discussion and amendments to the one presented by the committee on organization. It was voted that the name of the society should be The American Society of Heating and Ventilating Engineers.

The constitution provides for an annual meeting in New York in January of each year, provision also being made for a semi-annual meeting to be held at various cities, date and place to be fixed at the annual meeting.

The following officers were elected to hold office until the first annual meeting in January, 1895: President, E. P. Bates, Syracuse, N. Y.; first vice-president, W. M. Mackay, New York; second vice-president, W. F. Wolfe, Boston, Mass.; third vice-president, Chas. S. Onderdonk, Philadelphia, Pa.; treasurer, Judson A. Goodrich, New York; secretary, L. H. Hart, 146 World Building, New York; board of managers, F. P. Smith, H. J. Barron, A. A. Cary, New York; James A. Harding, Vineyard Haven, Mass.; Henry Adams, Washington, D. C.; council on membership: Chas. W. Newton, Baltimore, Md.; R. C. Carpenter, Ithaca, N. Y.; Albert A. Cryer, New York, F. W. Foster, Boston, U. G. Scollay, Brooklyn, N. Y.

L. H. HART, Secretary.

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. I hope you all are looking forward to another great 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 ASHRAE and YEA events!

Due to inclement weather, we had to cancel our October Skeet Shooting event. Be on the lookout for this event to be rescheduled in the Spring.

On Halloween weekend, I attended YEA Leadership Weekend 1.0 in Chicago, hosted by Ralph Kison. It was great to connect with fellow HVAC young professionals, who hail from across North America. On Thursday, we took a technical tour of the chiller plant at the Willis Tower (the tallest building in the world from 1974 until 1998). On Friday, we embarked on a team-building scavenger hunt around Chicago. Over the weekend we honed our leadership skills, determining our strengths and weaknesses as leaders.



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 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.

2023 Decarbonization Challenge

ASHRAE President Ginger Scoggins, P.E. has announced her '23-'24 Society theme, Challenge Accepted: Tackling the Climate Crisis. Her plan includes a Decarbonization Challenge Fund, a year-long competitive grant (\$1,000 - \$10,000) program to implement decarbonization projects within local chapters. This program is implemented through the YEA Committee with grassroots outreach through YEA chairs/committees at each chapter and open to all ASHRAE members and chapters. Applications will be open through November 30th, 2023.

<https://www.ashrae.org/communities/young-engineers-in-ashrae-yea/yea-decarb-initiative>

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

- Steven Gerazounis



Government Affairs Committee (GAC)

COP 'cooling pledge' vows 68% emissions cut by 2050

Bangkok: A "cooling pledge" to be unveiled at next month's COP28 climate summit will commit countries to slash cooling-related emissions 68 percent by 2050, according to a draft text seen by AFP on Friday. It remains unclear which countries will sign up to the pledge, and whether heavyweights such as China and India, where demand for air conditioning is growing fast, will participate.

Cooling methods currently account for over seven percent (**7%**) of global greenhouse gas emissions, according to the United Nations. They contribute to emissions because of the electricity needed to power tech such as ACs and fans, and because air conditioning and refrigeration

generally rely on hydrofluorocarbons.

These are short-lived but powerful pollutants that can have exponentially greater global warming effects than carbon dioxide.

The UN has said there are already an estimated 3.6 billion cooling appliances being used globally, but that figure is expected to soar, with global energy demand for cooling tripling by 2050. "Without policy intervention, direct and indirect emissions from air conditioning and refrigeration are projected to rise 90 per cent above 2017 levels by the year 2050," a UN report warned in 2020.

The Global Cooling Pledge commits signatories to work on "reducing cooling-related emissions across all sectors by at least 68% globally relative to 2022 levels by 2050".

It acknowledges the rising numbers of heat-related deaths globally, and that nearly three billion people currently have inefficient cooling options. But it suggests access to cooling can be expanded while reducing the sector's emissions through tools including more efficient air conditioners, buildings that use passive cooling, and a reduction in the most potent hydrofluorocarbons. "Coordinated international action on sustainable cooling" can save the emission of 78 billion tons of carbon dioxide equivalent -- a measure of greenhouse house emissions -- by 2050, the pledge said.

Global negotiators meet in Dubai from November 30 for crunch climate talks expected to focus on the future of fossil fuels, a call for ramping up renewable energy use and wrangling over financing for adaption and transition in the developing world.

Source Article. [COP 'cooling pledge' vows 68 percent emissions cut by 2050 | The Peninsula Qatar](#)

National climate resilience plan

The Biden administration released on Thursday a [plan to increase climate resilience](#) nationwide. The "National Climate Resilience Framework" identifies the federal government's six overarching climate resilience goals and provides specific actions that could be taken to accomplish them.

The plan says it centers locally tailored, community-driven solutions.

The framework "will help guide wise investment of federal dollars" and indicates that the government is moving [beyond traditional disaster response](#), said Shana Udvardy, a climate resilience analyst at the Union of Concerned Scientists, in a statement.

[National-Climate-Resilience-Framework-FINAL.pdf \(whitehouse.gov\)](#)

ASHRAE Leads the Way in Public Health Standards with Groundbreaking Resource

ASHRAE is a leader in developing guidance proven to safeguard public health. As the world grapples with a resurgence of COVID-19, along with the spread of flu and RSV, the importance of clean air flow in buildings has never been more critical. Now, the Society's pioneering resource, [ASHRAE Standard 241, Control of Infectious Aerosols](#), provides building owners, operators and professionals the ability to proactively protect indoor environments during this fall and winter virus season.

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 Long Island chapter had 272 active members at the beginning of this season, excluding student members. As of Oct 5, we have 273 active members. This year, our net growth goal is 277. We only need to add 4 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. Follow our activities through this newsletter and LinkedIn.

Chapter Name	First Name	Start Total	Goal	Net Growth Goal	Net Growth Goal %
LONG ISLAND	Murat	272	5	277	1.8%

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. There are so many different options available at ashrae.org, and I'm always available to assist our members.

We have 17 new members since the beginning of this season. However, 17 new members only increased our gross membership by just about 1. This means that, during this period, we, lost 16 members. We have to increase the number of new members to maintain net positive growth because people are moving, changing jobs, and canceling membership. If any of our current active members have friends interested in joining ASHRAE, please invite them to our monthly meetings. If any of our active members bring a new member, both of their dinner is 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 engage with free drinks during happy hour socially. Hope to see you all there.

- Adrian Jhansci Diaz Gomez
- Glen P. Bornhoft
- Anthony Ottaviano
- Joseph William Burke
- Denny Vayalickollattu Johnney
- 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

Membership Promotional 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 in 2023, 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/ll97/local-law-97.page>

[3]. https://www1.nyc.gov/assets/buildings/local_laws/ll154of2021.pdf

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

Student Activities



Student Activity Overview

Hello everyone! Welcome back for the exciting start of the 2023-2024 ASHRAE calendar.

As the Student Activities Chair, I am very honored to be the liaison for our ASHRAE Long Island Chapter to the bright young people in our region who are interested in HVAC&R industry.

As you may already know, each year, ASHRAE awards scholarships range from \$3,000 to \$12,500 each to help qualified students to achieve their educational goals. Over the course of 30 years ASHRAE has awarded over \$2.25 million to 400+ deserving students. Do you want to be one of them? Currently there are 53 ASHRAE Society Scholarships available for 2023-2024. **Applications due December 1, 2023.** Check this out:

<https://www.ashrae.org/communities/student-zone/scholarships-and-grants/ashrae-scholarship-program>

Also, the ASHRAE Student Activities Committee is offering five \$1,000 USD travel grants to help subsidize students to travel to the Winter Conference in Chicago in January 2024. **Applications due September 30, 2023.** If interested, please check for more details, and apply here:

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



Are you competitive? ASHRAE also has a Competition Program to enhance students' understanding of HVAC&R system design and sciences. 2024 Design Competition, 2024 Applied Engineering Challenge, 2023 Building EQ (Building Energy Quotient) Competition, 2023 ASHRAE High School Student Competition, 2023 HVAC&R Student Paper Competition, etc. are all going on, RIGHT NOW. Learn more details:

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

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



Matthew K. Catan | Sales Engineer @ CES | mkcatan@ceshv.com

Diversity & Inclusion Chairman

Overview



HAPPY HALLOWEEN!!!

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

WHY DIVERSITY IS KEY TO THE FUTURE OF ENGINEERING

By Sharon L. Walker

Interim Dean, Bourns College of Engineering

Professor of Chemical and Environmental Engineering

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 2014, 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 2007, 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.

3. Shifting demographics

The U.S. is continuing to witness an overall change in its demographic composition. As Gibbs explained, citing a study from the U.S. Census Bureau, a majority of infants born today now fall into the “non-white” category. The U.S. Census Bureau reported that, as of 2011, [some 50.4 percent](#) of children under 1 year old were non-white. This statistic points to a future society where whites are no longer in the majority and the workforce is no longer dominated by white males. As Gibbs also noted, this is not to mention the obvious fact that half of the population will be female. Given these radical changes, it is clear that engineering as a profession needs to diversify if the U.S. wishes to continue its position as a STEM leader on the international stage. Without efforts to diversify and indeed change its overall perception, the engineering profession will likely suffer considerably from a lack of growth and innovation.

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.

Consider University of California Riverside

As Gibbs and others have said, when it comes to the field of engineering, efforts to diversify the industry are not just the right thing to do, they are integral to future growth, success and innovation in the field. If you are interested in adding your talent and voice to this exciting industry, consider applying to the University of California Riverside's [online Master of Science in Engineering program](#). With six concentrations to choose from and a flexible approach that allows you to study at a time and pace that suits you, the UCR MSE program is an ideal fit for your already hectic schedule.

Furthermore, UC Riverside prides itself as an institution that works [tirelessly to promote and increase diversity](#), both within the faculty and the student body. Ranking as the eighth-most diverse institution of higher education in the country, in terms of ethnic make up, UCR has a number of programs, academic courses and resources designed to help its diverse student body get the very most from their educational experience. Important resources include, but are not limited to: Middle Eastern Student Center, Women’s Resource Center, Lesbian Gay Bisexual Transgender Resource Center, African Students Programs, Chicano Students Programs, Asian Students Programs, Native American Students Programs and many more. For more information about diversity initiatives at UC Riverside, [click here](#).

Recommended Reading

[The Growing Presence of Women in Engineering](#)

[Spotlight on Success – Seven Leading Female Engineers](#)

[University of California, Riverside Online Engineering Program](#)

Sources

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<https://blogs.scientificamerican.com/voices/diversity-in-stem-what-it-is-and-why-it-matters/>

<http://www.census.gov/newsroom/releases/archives/population/cb12-90.html>

<http://deanofstudents.ucr.edu/equitydiversity/>

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<https://www.nap.edu/read/10377/chapter/4>

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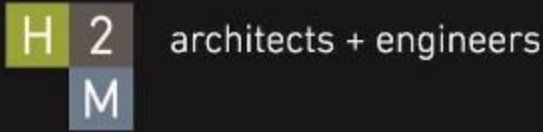


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