

THE LONG ISLAND SOUNDER



Long Island
Chapter

2023-2024

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PRESIDENT'S MESSAGE

June Newsletter



Closing Remarks

Thank you to all of the chapter members and ASHRAE supporters who have volunteered their time to make this another successful year. It has been an honor to serve the ASHRAE Long Island community and looking forward to the next chapter. Over the last 10 years it has been amazing to see how our chapter has grown, adapted to new challenges, and started new initiatives all while maintaining ASHRAE's core values. As I step down from being president, I am confident to say that it will be a seamless transition and am excited to see how the chapter will continue to grow and improve.

At the June meeting, the new BOG members will be sworn in for their duties. I would like to congratulate all BOG members and committee chairs for their new roles and wish them nothing but the absolute best. It is important to remember that while a completely voluntary effort that takes much of our time, the fruits of your labor are priceless. ASHRAE has opened doors for me that I would not have achieved otherwise through training, education and networking as well as making friends along the way. I hope you all have a great summer and will see you at the Region 1 CRC in August!

Upcoming Events

1. Annual Captree Fishing Trip – Summer 2024 (Date TBD)
2. Region 1 CRC – Albany NY – August 15th-17th, 2024

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.
6. Exhibitor at the PSEG – Electrify Long Island Conference on April 4th, 2024.
7. YEA Event at Farmingdale Axe Throwing on April 25th, 2024.
8. ASHRAE LI Golf Outing on May 6th, 2024
9. Hofstra University Field Trip and Presentation of the new Science and Innovation Center on May 14th, 2024
10. ASHRAE LI End of the Year BBQ – June 11th, 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.

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* At Westbury Manor</p> <p>Dinner Presentation –</p> <p>Smart Campuses:</p> <p>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 * At Westbury Manor</p> <p>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* At Westbury Manor</p> <p>Dinner Presentations - Domestic Hot Water Heat-Pump—</p> <p>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 * At Westbury Manor</p> <p>Dinner Presentation—</p> <p>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 * Cherry Valley Club, Garden City, NY</p> <p>ANNUAL GOLF OUTING</p> |
| <p>December 12, 2023 * At Westbury Manor</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 * At Westbury Manor</p> <p>Dinner Presentation— Humidification</p> <p>By: Andy Siegelson</p> <p>**1 PDH**</p> | <p>June 12th 2024 * At Westbury Manor</p> <p>Free Buffet Dinner for Members</p> <p>PAST PRESIDENTS NIGHT & OFFICER INSTALLATION STUDENT SCHOLARSHIPS TO BE AWARDED ASHRAE History Quiz and prize Give-A-Ways</p> |
| <p>February 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) * Dixie II @ Captree State Park Boat Basin, NY</p> <p>ANNUAL FISHING TRIP</p> |
| <p>February 20, 2024 * At Westbury Manor</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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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 |

Historian



“We must embrace change, push the boundaries and engage all of the stakeholders in building design, construction and operation. Our challenge is to approach every project with innovation, not repetition, and to challenge ourselves to find the elegant solutions that will minimize energy use and provide exceptional indoor environmental quality.”

— Lynn G. Bellenger, 2010–11 ASHRAE President

This month’s historical article is an homage to Lynn G. Bellenger, who was the first woman to serve as the society president of ASHRAE. Bellenger, PE, was ASHRAE president for the 2010-11 Society year with term ending in June 2011. Bellenger passed away October 19th, 2011.



Lynn G. Bellenger was a recognized expert in energy management with a strong focus on the need for energy modeling to improve building efficiency. As ASHRAE president, Bellenger focused on Modeling a Sustainable World, sharing her thoughts about the role of modeling tools and how all involved in the built environment industry must come together to take advantage of “the rich opportunities for optimizing building performance through a collaborative approach from the beginning.”

The below is an excerpt from Bellenger’s Presidential Address:

In energy simulation, daylight analysis, computational fluid dynamics and building information modeling software, we have powerful modeling tools that enable us to create and refine our vision of a building: its appearance, systems, operation and performance. Those resources, used effectively in an integrated design process for new buildings and in analyzing retrofit opportunities in existing buildings, will help us guide building owners, architects, developers and contractors in building orientation, shading and shape and in selecting materials, windows, equipment and systems that optimize building performance.

Bellenger was a recipient of an ASHRAE Exceptional Service Award, a Distinguished Service Award, two first-place ASHRAE Technology Awards and the Lincoln Bouillon Membership Award. She received a Bachelor of Science in mathematics from Principia College and a Master of Science in environmental science from Rutgers University.

Thomas DiBenedetto, PE
Historian

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!

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>

YEA Leadership International

The 2024 YLI Leadership International will be held at the Four Points by Sheraton Singapore on October 18th-20th. This event is for young professionals who are looking to improve in the areas of leadership, networking, communication, and professional development. YLI is led by Tricia Evans. Her tagline is 'Be Successful on Purpose' and that's what she enables people to be – helping professionals gear up for more strategic roles, and getting leadership teams aligned and focused. Please use the link below to register, and hurry if you are interested as registration closes on August 11th and is limited to 30 participants.

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

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)

Government Affairs

Well, this has been a topsy turvy year and things are really starting to Heat up! (Pun Intended)

Good News There maybe some answers to our burning questions about energy production and sustainability of ours lives as we navigate the Lava Trenches of this Climate. (Business and Atmosphere).

Abnormally dry Canada taps US energy, reversing usual flow

For the First time in a while, Canada Hydro Electric plants had to Reduce the Production of electricity due to Lower Rain fall and Snow totals. Just incase you are not familiar with the Magic Pixie Dust of Hydro Power... You need Water and Lots and Lots of it. Water is captured in Reservoirs and released through the plant as power is needed. The problem with that is if the reservoirs drop below a certain point you need to slow the Exit flow of water down so you don't run out. This has created a condition that is forcing the US power Grid to supplement the Canadian Grid with NG and Nuclear power plants. Most of the plants in the US are running at a 80% of max capacity or Higher making this an US problem or potential Shortage.

New Developments in Solar have just been released that seem pretty promising.

Heat batteries: Transforming renewable energy storage.

Solar and wind energy generation does not always align with consumption patterns, necessitating effective energy storage solutions. Andrej Lenert, associate professor of chemical engineering at the University of Michigan, said: "As we incorporate higher fractions of renewables to achieve decarbonization goals, we need lower costs and longer durations of energy storage." Heat batteries could store intermittent **renewable energy** during peak production hours and convert it into electricity later using a thermal version of solar cells known as thermophotovoltaic cells. Thermophotovoltaic cells, similar to solar cells, convert electromagnetic radiation into electricity but use lower-energy infrared photons. According to Stephen Forrest EE U of M "It's a passive form of battery. "Unlike electrochemical cells, it doesn't require lithium mining, avoiding competition with the electric vehicle market. "Unlike hydroelectric storage, it can be deployed anywhere without needing a water source." The new device achieves a power conversion efficiency of 44% at 1435°C, surpassing the previous 37% efficiency.

<https://www.innovationnewsnetwork.com/thermophotovoltaic-cells-breakthrough-achieves-44-heat-storage-efficiency/47824/>

MIT spinoff unveils continuous solar power solution technology

247Solar's innovative concentrated solar power system stores sunshine for continuous clean energy, day & night.



The system's brilliance lies in its thermal energy storage. Excess hot air is diverted to a long-duration storage system, where it heats solid materials that retain the heat for later use. This stored thermal energy becomes the workhorse during the night, powering the turbines when the sun dips below the horizon.

Bruce Anderson emphasizes the system's versatility. "We offer 24/7 electricity, but we also provide a combined heat and power option, with the ability to deliver heat up to 970 degrees Celsius for industrial processes," he explains. "It's a very flexible system."

<https://interestingengineering.com/energy/mit-spinoff-unveils-continuous-solar-power-solution-technology>

As this Year Closes, we wish you a Super Summer and a Fully Energized Future.

Richard Smith – GAC Chair.

Matt Catan – Co-Chair

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



MEMBERSHIP PROMOTION

Here we are at the end of the final month of the 2023 – 2024 ASHRAE year. We had a very successful season under the president Mike Nigro’s leadership. The chapter’s board added new programs to the existing ones, highlighting the first-ever trade show. The trade show of Long Island will become a pioneering activity in engaging all HVAC-R industry professionals and flourish our chapter in the future.

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 June 11, we have 273 active and 19 student-grade members. This year, our goal is to reach 280. We only need to add seven more new members by the end of June 2024 to meet our goal expectations. We still have time and can easily surpass this goal with the contribution of our volunteers. The chapter will continue to promote activities to increase our membership, such as YEA and student activities and monthly technical presentations, and add value to the HVAC-R community of Long Island.

We have another major event left – a fishing boat trip in July. I strongly recommend our members, especially the new members to attend. This is also a traditional event, and the participants really enjoy the time on the beautiful coastline of Long Island shore of the North Atlantic Ocean, with the potential to catch many flukes.

Anyone interested in becoming an ASHRAE member can contact me or one of our committee members, Liz, Albert, Steve, or Matt. You can also 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 a free Winter or Summer conference. 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 a summary of membership benefits.

Forty-one new members joined the chapter since the beginning of this season. However, 41 new members were not enough to increase our membership. We must work more to increase the number of new members to maintain net 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 presentation. Our meetings at this great venue, Westbury Manor, allow guests to socialize with unlimited drinks during happy hour. I hope to see you all there.

Adrian Jhansci Diaz Gomez
Mr. Glen P Bornhoft
Anthony Ottaviano
Mr. Joseph William Burke
Denny Vayalickollattu Johney
Peter Sgouros
Ethan Peck
Mr. Troy Peter Deal
Mr. Matthew Steven Burke
Mr. Thomas Kenny
Matthew R Gropper
Zachary Chirinkin
Mr. Lance Montalbano Jr
Miss Kavya Srinidhi Cherolu
Mr. CHRISTOPHER G CAWLEY
Mr. Ryan Burwell
Ms. Laura Heckman
Thomas Naggy
Murat Ertas
Ralph Byers
Christopher R Mangels
Dimitri Grammatikopoulos
Thomas Nagy
Tiffany Gonzales
Michael Yurman
Arthur J Seeberger
Drew Lawrance Maggio
Julian Czerewin
Seth Blumencranz
Zuniga Lazo
Timothy McDermott
Dr. Lynn Albers
Daniel Peron Sachs
Mr. Syed A Hassan
Mr Syed Waqar Haider
Mr Rajat BHAGAT
Mr John R Godden
John Moore, II
John Joseph Cimetta
John Grosso
Jasmin Zelaya

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*
- 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

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:

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.



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.

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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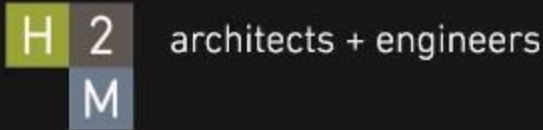


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