

THE LONG ISLAND SOUNDER



Long Island
Chapter

2022-2023

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PRESIDENT'S MESSAGE



ASHRAE WINTER CONFERENCE

I am writing from ASHRAE Winter Conference 2023. ASHRAE convenes industry professionals and scientists from all over the world working for the building sciences at these conferences. The professionals have been sharing their experiences, experiments, and studies with the participants for many years to enhance the building science professionals' capacities. These conventions are spectacular sources for those interested in progress in their careers.

The conferences provide rich content with 100 +the technical sessions. We encourage our members to attend to learn about the latest industry developments.

The convention is also a joint activity with the AHR Expo bringing hundreds of companies producing building science products into the market. One common goal of most participants focuses on energy efficiency, decarbonization, and improvement of life quality in the buildings and ecosystems.

Last month we had Mr. Andy Siegelson - Senior Engineer from ADE Group/ADE Systems, INC. He presented to over thirty guests about Electrical Engineering Fundamentals (for Mechanical Engineers). It's been a great refreshment for mechanical engineers as well as electrical engineers, as we can tell from the number of participants. We host new guests interested in the presentation topics each month to learn more about the latest or standard technologies. We'll select the best presentation topics for our guests to reach out to more HVAC-R professionals. Check your inboxes and follow us through social media and our website for future events.

ASHRAE-LI's Young Engineers committee will announce the traditional Go-Kart racing event soon. We had a very competitive race last year and hoping to have the same this year. The ASHARE-LI's YEA group would soon announce a new beer blend in the Bay Shore Brewery for Long Islanders.

For the first time, ASHRAE-LI's recently formed Sustainability Committee is planning to organize a panel at NYIT in April. We expect support from our members to enhance the sustainability committee and proposals for new activity ideas. Sustainability and decarbonization efforts are for our younger generations to ensure a better future with a peaceful connection between mother nature and civilization that is economically beneficial to all.

Our student connections are not limited to college students. We visited the Jericho High School students to introduce "The Variety Aspects of Engineering Career" from the HVAC-R industry engineers' point of view. It turned out to be a great event where two full-class students listened to us very attentively. We want to encourage more students to engage in engineering practices, have them learn more about engineering, and introduce ASHARE. A student and two teachers are planning to attend one of our monthly meetings soon.

Our Historian Steven Gerazounis just uploaded all past newsletters dating back to 2003 on the ASHRAE-LI website. This is a great achieve for those who are interested to track the developments in the past and volunteers serving the Long Island chapter. Thanks, Steven, for your efforts.

John Knowles will be presenting at the second meeting of 2023 on February 21. He will discuss “Automatic Flow Balancing”. It will be an informative presentation for both experienced and new grads.

Engineers Joint Committee of Long Island on Engineers Week will hold seminar series on February 15 between 8:00 am and 4:30 pm. There are numerous presentations by great speakers at Holiday Inn Plainview, as always.

I encourage our members to attend this seminar. The attendees will receive 6 PDHs if they sign up for all-day workshops.

Lastly, I cannot pass it without mentioning the earthquake hitting Türkiye and Syria. Thousands of mothers, fathers, brothers, sisters, children, and babies died under rubble and suffered to wait till death below freezing points. People were rescued even after 165 hours under collapsing buildings by the efforts of rescue teams risking their own lives. The picture is so clear here. No one deserves to die for any form of human-caused reason. It’s so critical to update the codes and abide by the codes during building construction. Engineers and architects must put human health first during design and construction. Not earthquakes, but the buildings kill. An engineer's and architect’s main goal is to ensure that the projects are aiming to protect people. Obviously, the frequency and effects of natural disasters such as earthquakes, wildfires, storms, tornados, and flooding increase as the populations increase. We need to build much more sustainable, resilient buildings and neighborhoods and be prepared for all-natural disasters.

Murat Bayramoglu
Chapter President

Chapter Monthly Meeting - Program for 2022/2023

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

Long Island Chapter Officers & Committees

ASHRAE 2022/2023

OFFICERS

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

ASHRAE 2022/2023

COMMITTEES

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

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Meeting Program



Dinner Presentation

Automatic Flow Balancing

Presented by: John Knowles

Senior Vice President of Application Engineered Design for
Wales-Darby, Inc

**Attendees
Will Earn
1 PDH!**

DATE:	TUESDAY, FEBRUARY 21ST, 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:	<p>The presentation will discuss how the inclusion of automatic flow control valves benefit commercial hydronic systems in performance and commissioning. The following topics will be covered:</p> <ul style="list-style-type: none"> • Manual balancing valves vs. automatic flow balancing valves • The effect of deficient water flow on terminal unit output • The internal parts of the valve • Cost comparison • TDH calculation comparison • Types of AFBV's and their applications • Variable speed pumping • Economic advantages • Selection and specification process • Rules of manual balancing valves in the same piping system with AFBV's <p>Short term discharge air temperature fluctuations</p> <p>All attendees will receive 1 PDH.</p>		
About our Speaker:	<p>John Knowles is the Senior Vice President of Application Engineered Design for Wales-Darby, Inc. A graduate of Union College with a BS in Mechanical Engineering, John also holds a LEED AP Certificate. His expertise is derived from years of hands-on application and continuing education into the forms and functions of the equipment and systems that make up his designs. He has been an educator for many years providing training to the engineering community in both group and individual settings. John is proficient in system sizing and design software as well as CAD programs. He believes in creating and maintaining a strong working relationship with the engineering community. John has worked at Wales-Darby for over 30 years.</p>		

The Long Island Chapter is looking for presenters for the remainder of the year. Please contact us if you are interested in presenting to our membership.

Long Island Chapter - Past Presidents

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

PAOE

What is ASHRAE PAOE?

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

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

PAOE POINTS FOR 2022/2023

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

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

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

This Month's Feature



Author: [Michael Ganz, Esq.](#) is a partner at the Woodbury, New York headquarters office of

Kaufman Dolowich. He focuses his practice on Construction Law and has more than 20 years of experience in construction transactional matters and litigation. He can be reached at: Michael.Ganz@kdvlaw.com or (516) 283-8761.

Willful Exaggeration of a Mechanic's Lien – A Cautionary Tale?

You are a mechanical contractor who has performed work for a commercial owner. The owner repeatedly promises to pay you for your work for several months and you continue to perform work. The clever owner occasionally makes a small payment, just enough to keep you working, but your unpaid balance keeps on growing. What do you do? Of course, each situation is unique. You may decide to allow the owner some wiggle room, especially if the owner has been a good client in the past. On the other hand, your instincts and experience may be leading you towards putting immediate pressure on the owner, perhaps in the form of a mechanic's lien on the owner's property.

First things first – the time limit to file a mechanic's lien on a commercial property is eight (8) months from the date of the last work performed, or last material furnished. Note for single family residences, the time limit is only four (4) months – so time is ticking away.

You now decide to file a mechanic's lien against the owner for the work – using your last unpaid requisition as a guide, you determine that you are owed \$45,567.89.

However, you are angry that the owner has repeatedly lied to you with promises of payment, so you decide to add an "aggravation factor" and just lien the owner's property for an even \$100,000.00. You (hopefully) know what you did is wrong, but you are feeling the inflated lien will put more pressure on the owner to pay you. Unfortunately, this situation happens too often, and the lienor may truly believe his or her course of conduct was fine, since the owner failed to make promised payments. This lienor has potentially committed a willful exaggeration of lien, under New York Lien Law Section 39, 39-a, with dire consequences.

However, before we get to the dire consequences of a willful exaggeration of lien, the law is that the lien must be *willfully exaggerated, and not just an "honest mistake"*. *Consequently, the bar is quite high for the owner to prove that you willfully exaggerated. To demonstrate that you willfully exaggerated your lien, the owner will most likely serve a Demand for an Itemized Statement of Lien in which you, as the lienor, must set forth the calculation and components of your lien – under oath. For my example, I purposefully used a round number of \$100,000 as the lien amount which often (but not always) indicates some impropriety.*

In any event, the owner still refuses to pay you and you hire an attorney to file a lawsuit for the owner's breach of contract and to enforce your lien with a lien foreclosure cause of action. The owner now hires an attorney to file an answer to your lawsuit with a counterclaim for your willful exaggeration of lien.

As stated above, under New York law, the owner has a right to demand an accounting (lien statement) from the contractor setting forth the items comprising the lien. If the owner can prove (not always easy) that the contractor willfully exaggerated the lien because the contractor knew of the improper charges, the owner is entitled to its own damages.

The damages may include voiding the lien in its entirety, the owner obtaining a judgment for the difference from the improper and proper lien amount (here, \$100,000-\$45,567.89 or \$54,432.11), the owner's attorney's fees and if the mechanic's lien was "bonded off", the cost of the lien discharge bond.

Under New York State law, the issue of a willfully exaggerated lien must be decided at time of trial – although there have been very limited exceptions. In a very recent case, *Adria Infrastructure, LLC v. Henick-Lane, Inc.*, 207 A.D.3d 604 (2nd Dep't. 2022), the issue of a willful exaggeration of a lien had an interesting twist. In this matter, a subcontractor filed various liens against the mechanical contractor and thereafter, brought a lien foreclosure action. The mechanical contractor filed an answer including a counterclaim that the subcontractor willfully exaggerated its liens. The subcontractor, in an effort to escape liability for its willfully exaggerated liens, discharged the liens and made a motion to amend its lawsuit to remove the lien foreclosure action. Interestingly, in order to preserve its counterclaim for willful exaggeration of lien, the mechanical contractor itself made a motion to reinstate the willful exaggerated lien and oppose the subcontractor's motion to amend its lawsuit to remove the lien foreclosure action. The appellate Court affirmed the lower court's decision and reinstated the subcontractor's lien and preserved the lien foreclosure action so that the mechanical contractor could seek to enforce its counterclaim for willful exaggeration of lien.

This decision is important – and in the author's opinion – justified to thwart unscrupulous lienors from filing willfully exaggerated liens and seeking to enforce those liens in litigation. A lienor must be prohibited from seeking to avoid the consequences at the 11th hour by unilaterally attempting to discharge its lien and withdraw its attendant lien foreclosure action. Justice prevailed!

Historian



Hello All,

I would like to announce that the ASHRAE LI website has been updated to showcase past newsletters dating back to 2003. Thank you to Liset Cordero, former ASHRAE LI newsletter editor, for archiving the newsletters throughout all these years. Please visit the Newsletters section of the website and take a trip back through ASHRAE LI's history in the 21st century. In addition, many of the past presidential interviews have been linked to the Past President section of the website. The presidents have shared great advice over the years and this archive can serve as a valuable resource for young engineers.

Newsletters: <https://www.ashraeli.com/newsletter.html>

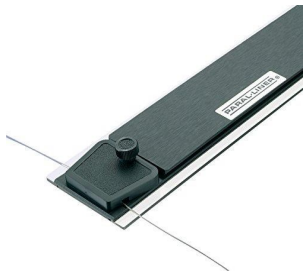
Past Presidential Interviews: <https://www.ashraeli.com/past-presidents.html>

In today's age of AutoCAD and Revit, it is easy to forget that engineers used to work on drafting boards with pencils and erasers. For this month's issue, I would like to take a step back in time to some of the tools and techniques that have been lost in the digital era.

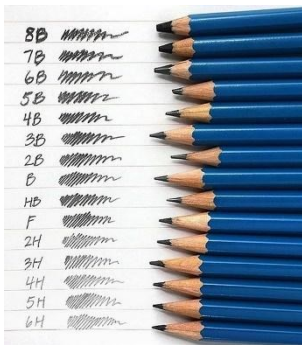
Drafting Boards



Straight Edge and Set Square



Different Grade Pencils



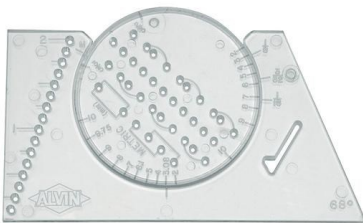
Mechanical Pencil



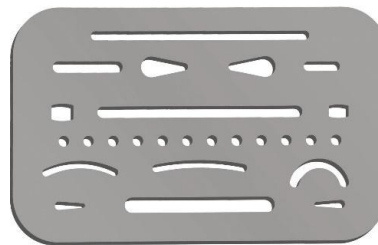
Mechanical Eraser



Lettering Guide



Eraser Shield



Drafting Brush



Drafting Scale



Refrigeration



Hello Everyone,

I like to follow the Refrigeration Applications column in the monthly society Journal. The March 2022 Refrigeration Article was a particularly interesting article to me. It spoke about the labor shortage facing the HVAC&R industry. The common thought process would be to “Pay higher wages and attract more people” however the reality is not so simple.

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

<https://technologyportal.ashrae.org/Journal/ArticleDetail/2390>

- Pete Conte

Chairperson

CTTC



With the continued push for building electrification, more and more engineers are turning to VRF (Variable Refrigerant Flow) systems to meet their heating and cooling needs. In addition to the benefits of electrification, VRF systems offer quieter operation, simultaneous heating and cooling, and built-in energy recovery. As with any system type, proper installation and design can improve efficiency and performance. Check out this past month's January 2023 issue of the ASHRAE Journal, "The VRF Learning Curve" to learn VRF system installation and design best practices.

We look forward to seeing you at the next ASHRAE meeting on Tuesday, February 21st.

Thomas DiBenedetto
CTTC Chairman

Murat Bayramoglu
CTTC Co-Chairman

The VRF Learning Curve

From the January 2023 ASHRAE Journal

Authored by Michael Gallagher, PE

Article Summary

While the concept of VRF has been around since the 1970s, the invention of variable speed compressors and improvements in control systems solved the issue of incomplete oil return and allowed VRF systems to reach their full potential. A properly functioning VRF system requires good design and installation practices.

Pipe Expansion

Designers often neglect to include provisions for expansion and contraction. Designers should work with manufacturers to confirm maximum lengths before expansion joints or loops are required.



CTTC

Distribution Box Service Access

With the advent of stepper motor flow regulating valves to replace solenoid valves in the distribution boxes, the distribution boxes no longer make annoying clicking sounds and may now be installed in more accessible locations rather than hidden away.

System Refrigerant Charge

VRF systems work better when they are properly charged with refrigerant. When VRF piping is run through shafts, the shafts must be designed with adequate space to identify and repair refrigerant leaks.

To properly charge refrigerant systems, installers must share actual installed piping layouts with the product manufacturer to identify proper refrigerant charge. System total piping length can be too short or too long. Overcharged systems are common when installers rely on design drawings rather than as-builts to determine refrigerant charge, and this puts major strain on compressors.

“A good VRF installation is an iterative redesign process between the field foreman and the project manager, with periodic reruns through the manufacturer’s software based on actual distribution box and fan coil locations.”

Isolation Valves

To permit repair work on VRF systems, isolation valves should be installed for each fan coil unit either near the terminal unit or at the distribution box to avoid requiring full system shutdowns for minor repairs.

Filtration

The COVID era brought a high demand for MERV 13 filtration. Designers should not assume that every ducted VRF fan coil can use a MERV 13 filter, and recognize that there may be filter housing alterations or accessories required.

Condensate Pumps

VRF terminal units are typically furnished with condensate pumps that have only 2 to 3 feet of pump head. For systems requiring higher condensate line elevation, alternate pump arrangements are required.

Control System Upgrades

For tenant fit out systems, the condensing units are often installed prior to the tenant terminal fan coil units. Because of the rapid improvements in VRF systems year after year, the terminal units are often 1 or 2 generations newer than the condensing units, and control systems require software and firmware updates to be compatible. While typically inexpensive, these updates can delay system startup and project turnover, and should therefore be identified early.



Leadership Weekend 1.0

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

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

Leadership Weekend 2.0

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

LeaDRS

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

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

- Michael Steven Gerazounis

YEA

Student Activities



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

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



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

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

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

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

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

2023 ASHRAE 3D Modeling Competition



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

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

- Zhiqiang Xu

Student Activities Chair

Sustainability Committee



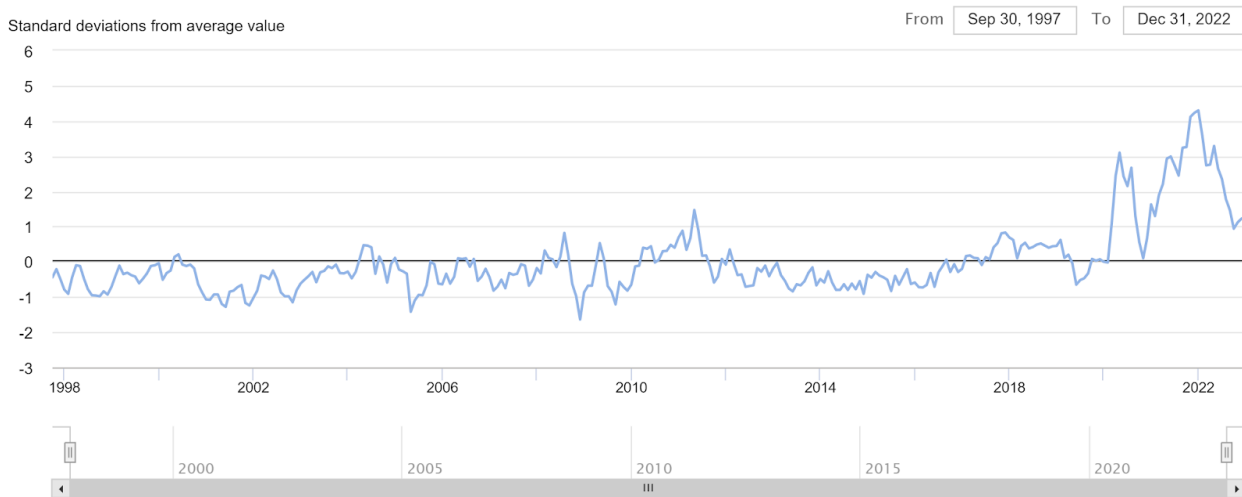
Since the beginning of the COVID-19 Pandemic, the world faced an unfamiliar supply chain crisis. This ongoing disruption has left a scarring impact on ongoing construction projects, and it has modified the way we plan our future construction schedules. Major HVAC building components with leadtimes of over 1-year have become all too common.

To quantify this supply chain crisis, The Federal Reserve Bank of New York developed a report titled the Global Supply Chain Pressure Index (GSCPI). This report, updated monthly, uses research-based indices to quantify the world's supply chain pressure. The report also contains data as far back as 1997, and it serves as a historical reference for the (lack-of) supply chain pressures in the past.

The interactive graph can be viewed here:

<https://www.newyorkfed.org/research/policy/gscpi#/interactive>

Prior to COVID-19, the data was largely uninteresting. Two decades of consistently average negative supply chain pressures. Any positive pressures were temporary and resolved within a couple months.



Fast-forward to recent times: COVID demands caused a nearly literal 0-100% spike in worldwide supply chain pressure, starting in January 2020 and peaking over 3 standard deviations in April 2020. The pressures were temporarily relieved in the 3rd quarter of 2020, only to come back even harder in 2021. In December 2021, the highest recorded datapoint was reached, logging in a 4.3 standard deviations above average (Historically speaking, this is well under a 0.1% probability event!)



Recently we have been averaging around 1.1-standard deviations of pressure higher than normal. While the outlook has improved slightly, it is still far from sustainable and nowhere near previous levels of “normal”. Hope things improve in 2023.

- Albert Stark
Sustainability Committee



Government Affairs Committee (GAC)

New Year New Challenges and Developments

Goodbye 2022 and Hello 2023,

I hope all of you have had a moment to look back and see what a crazy year it was. In an industry that tends to implement changes more Glacially than Speed Car Charlie style, we definitely have had to deal with Change.

Many of the Climate Goals are creating a need to move before everything is in place and many will agree we have conflicting agendas at hand that may create problems ahead.

Supply Chain: How you doing? Long Lead times on many items.

NYC Agencies: All Aboard or Abandoning Ship – Iceberg Straight ahead!
FDNY – DOB – City Council

Product Development: Still lagging demand.

Price/Payback Ratio: Too early to tell in cold weather climates not as good as claimed in warmer ones.

Now for some Good News:

US officials announce nuclear fusion breakthrough:

Nuclear fusion is a man-made process that replicates the same energy that powers the sun. Nuclear fusion happens when two or more atoms are fused into one larger one, a process that generates a massive amount of energy as heat. (May be on Target for 2050)

Nuclear Fusion Breakthrough Comes With Wider Implications for Clean Energy

Hydrogen Hubs are being formed for a new infrastructure for production of friendly fuel source.

Hydrogen production, processing, delivery, storage and end-use are important to DOE's objective in meeting President Joe Biden's goal to move the U.S. to a 100% clean electrical grid by 2035 and net-zero carbon emissions by 2050.

Hydrogen Hubs Formed in Southwestern, Southeastern U.S.

The Main Purpose of the Government Affairs Committee is to forge relationships with the Government bodies that set standards or rules when pertaining to Air Conditioning, Refrigeration and Heating. There are also other Energy Groups and Agencies that are partners with the Government Bodies and Utilities that we also try to bring to the table to Learn from each other and add feedback to current and upcoming policies that affect us all. The Manufacturer Representatives are also able to add perspectives to the discussion on how soon and make changes to the products to conform with policies and concerns. If you feel that you could help and would like to add your voice to the discussion, there is room at the table for you. Reach out to Murat or Myself to discuss.

Richard Smith – GAC Chair

Email: 006ggac@ashrae.net

MEMBERSHIP PROMOTION



As Tony Robbins has said “Setting goals is the first step in turning the invisible into the visible.” To start the 2023 membership new year’s newsletter, I’d like to hope everyone had a happy & healthy 2022, as well as continued success in the coming year! Regarding goals, I hope our membership continues to grow as an increasing number of HVAC professionals recognize the benefits and value that ASHRAE membership provides. Since we kicked off in September, our Long Island Chapter of ASHRAE hasn’t had such great success in growth positive growth since we’ve had a higher-than-normal amount of delinquent members & losing a few members due to cancelations. On the positive though, we’ve had 11 new members & 1 new student.

Although our membership we all wish our membership to grow, our members remain our greatest strength and we look forward to welcoming even more new members in the coming year. Through the year we will continue to offer great programs, learning opportunities and leadership that will help you everyone including our newest members. With the current ASHRAE board and set schedule, we’re ensured to have another success year. These opportunities will provide vital stepping stones to success by way of friendships, education & networking.

With the multiple activities set during this year, a potential idea for everyone is to make ASHRAE one of your new year’s resolutions. Please visit our website at www.ashraeli.org for more information about upcoming events.

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

1. Robert J Fuchs
2. Brian Egan
3. James Feeney
4. Louis C Lagomarsino

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

Michael H. Razzano
Membership Promotion Chair

Michael Gerazounis
Membership Promotion Co-Chair

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Most Popular Tweets

Does It Cost More To Build Green? Benefits include reduced operating costs & construction waste.

Online Thermal Comfort Compliance Tool Included In New ASHRAE User's Manual.

87% of households in the US have #AC, 5% do in India. India's tough choice on air-conditioning and climate.



The November issue of the Journal is tested for binding strength to see how many times a page can be turned before the binding would fail.

Harvard & SUNY Upstate Medical University find that workers are healthier and happier in certified green buildings.

ASHRAE Standard 90.1 has been redefining energy savings since 1975. A new version is available now.

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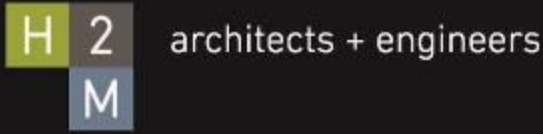


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USA

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