



## American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.

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### President's Message

Welcome to the November issue of the "Long Island Sounder" The ASHRAE LI Board of Governors would like to thank all those who attended last month's meeting on "Refrigerants, where North America is heading" We had a full house and would also like to thank our Guest Speaker Mr. Bill Dietrich. We had a very engaged crowd and many interesting and important questions were asked about this most industry relevant topic.

As the leaves turn colors and the clocks turn back we find ourselves driving home in the dark. This time of year visibility gets difficult and driving conditions tend to deteriorate. Now is a good time to change your car's wiper blades and be extra careful out there.

Not only is the weather changing but we are making changes to the way our website looks and how we communicate with you. Our website address is changing to ASHRAELI.com. Our new site is currently under construction and will notify you when complete.

Our first YEA event is scheduled for Saturday November 10<sup>th</sup> at the Tap Room, 161 River Avenue, Patchogue NY, Thanks to our YEA Chairperson Elizabeth Jedrlnic for leading the way on this event.

Our November meeting will be our joint meeting with SMACNA LI. Our Speaker will be Mr. Mark Terzigni, Director of Engineering Technical Resources at SMACNA. Mr. Terzigni will take us through the System Effect of a mock mechanical room and the inlet/outlet conditions when the room is not sized properly.

Our meeting this month will be held the day after Veterans Day. We would be remiss if we did not acknowledge our great Veterans who served to protect our country, values and freedom. On Behalf of ASHRAE Long Island we give you much thanks

**Rich Halley**  
President - Long Island Chapter

### CHAPTER MONTHLY MEETING

<b>DATE:</b>	<b>Tuesday, November 13, 2018</b>
<b>TIME:</b>	6:00 PM - Cocktails/Dinner 7:00 PM - Dinner Presentation 8:45 PM - Conclusion
<b>LOCA-TION:</b>	Westbury Manor 1100 Jericho Tpke. Westbury, NY 11590
<b>FEES:</b>	
Members -	\$45.00
Guest -	\$60.00
Student -	\$15.00

Check the ASHRAE Website for Society news and to join/renew membership!  
<http://www.ashraeli.org>

## Long Island Chapter Officers & Committees

### ASHRAE 2018/2019 OFFICERS

POSITION	NAME	PHONE	EMAIL
President	Richard Halley	516.490.1616	<a href="mailto:president@ashraeli.org">president@ashraeli.org</a>
President-Elect	Frank Paradiso	631.632.2791	<a href="mailto:president_elect@ashraeli.org">president_elect@ashraeli.org</a>
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Secretary	Murat Bayramoglu	631.312.8818	<a href="mailto:secretary@ashraeli.org">secretary@ashraeli.org</a>
Board of Governors	Michael Nigro	212.643.9055	<a href="mailto:bog1@ashraeli.org">bog1@ashraeli.org</a>
Board of Governors	Elizabeth Jedrlnic	516.490.1621	<a href="mailto:bog2@ashraeli.org">bog2@ashraeli.org</a>
Board of Governors	Andrew Blom	631.626.1695	<a href="mailto:bog3@ashraeli.org">bog3@ashraeli.org</a>
Board of Governors	Michael Razzano	516.805.3084	<a href="mailto:bog4@ashraeli.org">bog4@ashraeli.org</a>
Board of Governors	Andrew B. DuBel, PE	516.484.1020	<a href="mailto:bog5@ashraeli.org">bog5@ashraeli.org</a>

### ASHRAE 2018/2019 COMMITTEES

COMMITTEE	NAME	PHONE	EMAIL
Programs & Special Events	Frank Paradiso	631.632.2791	<a href="mailto:programs@ashraeli.org">programs@ashraeli.org</a>
Membership (MP)	Bill Artis	516.732.2519	<a href="mailto:membership@ashraeli.org">membership@ashraeli.org</a>
Refrigeration	Michael Razzano	516.805.3084	
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Grassroots Government Activities (GGAC)	Andrew Blom	631.626.1695	<a href="mailto:ggac@ashraeli.org">ggac@ashraeli.org</a>
Newsletter Editor	Liset Cordero	212.643.9055	<a href="mailto:editor@ashraeli.org">editor@ashraeli.org</a>
Research Promotion (RP)	Andy Manos	631.632.2792	<a href="mailto:rp@ashraeli.org">rp@ashraeli.org</a>
Historian	Elizabeth Jedrlnic	516.490.1621	<a href="mailto:historian@ashraeli.org">historian@ashraeli.org</a>
Student Activities (SA)	Frank Paradiso James Hanna	631.632.2791 718.269.3768	<a href="mailto:sa@ashraeli.org">sa@ashraeli.org</a>
Young Engineers in ASHRAE (YEA)	Elizabeth Jedrlnic	516.490.1621	<a href="mailto:yea@ashraeli.org">yea@ashraeli.org</a>
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Nominating	Michael Gerazounis, PE, LEED AP	212.643.9055	<a href="mailto:nominating@ashraeli.org">nominating@ashraeli.org</a>
Reception & Attendance	Matthew Catan	407.489.6684	<a href="mailto:reception@ashraeli.org">reception@ashraeli.org</a>
PR & Engineering Joint Council of LI (EJCLI) Liaison	Andrew Manos, LEED AP	631.632.2792	<a href="mailto:pr@ashraeli.org">pr@ashraeli.org</a>
Golf Outing	Peter Gerazounis, PE LEED AP	212.643.9055	<a href="mailto:golf@ashraeli.org">golf@ashraeli.org</a>
Awards	Brian Simkins	203.261.8100	<a href="mailto:bsimkins@accuspecinc.com">bsimkins@accuspecinc.com</a>

ASHRAE LI, P.O. Box 79, Commack, NY 11725

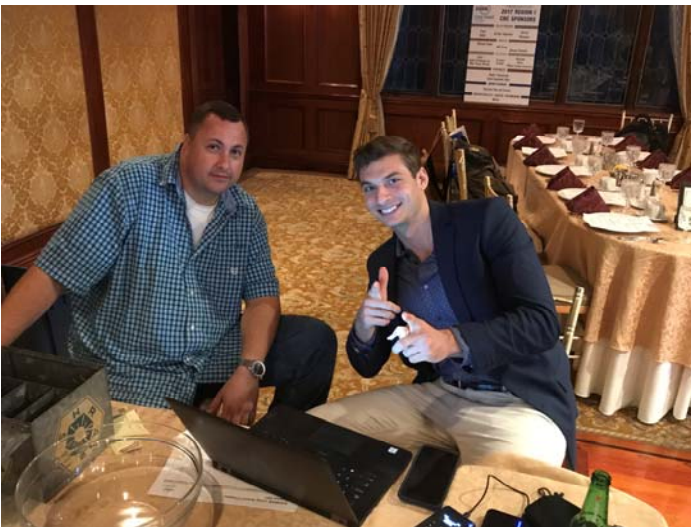
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## Chapter Monthly Meeting - Program for 2018/2018

<b>September 11, 2018</b> * At Westbury Manor 🍷 Dinner Presentation – Adiabatic Cooling Solutions Presenters: Robert Gebhard, Michael Silverstein, Alex Schafer <b>**1 PDH**</b> <b>Refrigeration Night</b>	<b>March 12, 2019</b> * At Westbury Manor Dinner Presentation - TBD Presenter: <b>**1 PDH**</b> <b>YEA Night</b>
<b>October 9, 2018</b> * At Westbury Manor 🍷 Dinner Presentation— Refrigerants Presenter: William E. Dietrich <b>**1 PDH**</b>	<b>April 9, 2019</b> <b>Annual Field Trip</b>
<b>November 13, 2018</b> * At Westbury Manor Dinner Presentation-- System Effect Presenter: Mark Terzigni <b>**1 PDH**</b> <b>Joint meeting with SMACNA</b> <b>Membership Promotion</b> <b>Student Activities Night and YEA Night</b> <b>Resource Promotion Night</b>	<b>May 6, 2019</b> * Cherry Valley Club, Garden City, NY <b>ANNUAL GOLF OUTING</b>
<b>December 11, 2018</b> * At Westbury Manor Dinner Presentation-- TBD Presenter: <b>**1 PDH**</b>	<b>May 7, 2019</b> * At Westbury Manor Dinner Presentation - TBD Presenter: <b>**1 PDH**</b> <b>Refrigeration Night</b> <b>Student Activities Night</b>
<b>January 8, 2019</b> * At Westbury Manor Dinner Presentation– TBD Presenter: <b>**1 PDH**</b>	<b>June 11, 2019</b> * At Westbury Manor <b>Free Buffet Dinner for Members</b> <b>PAST PRESIDENTS NIGHT &amp; OFFICER INSTALLATION</b> <b>STUDENT SCHOLARSHIPS TO BE AWARDED</b> <b>ASHRAE History Quiz and prize Give-A-Ways</b>
<b>January 20-24, 2019</b> ASHRAE Winter Meeting Chicago, IL	<b>June 8, 2019 (4pm-8pm)</b> * Dixie II @ Captree State Park Boat Basin, NY <b>ANNUAL FISHING TRIP</b>
<b>February 12, 2019</b> * At Westbury Manor – Dinner Presentation– Presenter: <b>**1 PDH**</b> <b>Membership Promotion Night</b> <b>Resource Promotion Night</b>	<b>June 14, 2019</b> Joint YEA Event with LI, NYC & Westchester (Details to follow)
<b>February 18-24, 2019</b> <b>NATIONAL ENGINEERS WEEK</b> <b>EJCLI Seminars</b>	<b>August 15-17, 2019</b> <b>CHAPTERS' REGIONAL CONFERENCE (CRC) REGION I</b>



## October Meeting Pictures



## Long Island Chapter - Past Presidents

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

## PAOE POINTS FOR 2018/2019

Chapter Members	Chapter Operations	CTTC	Electronic Communications	GGAC	Historical	Membership	Research Promotion	Student Activities	Chapter PAOE Totals
282	785	575	50	0	350	475	300	100	2,635

## November Meeting Program



### Dinner Presentation

#### ***“System Effect”***

*Presented by*

**Mark Terzigni**  
**Director of Engineering**  
**Technical Resources**  
**SMACNA**

**Attendees  
 Will Earn  
 1 PDH!**

<b>DATE:</b>	<b>TUESDAY NOVEMBER 13, 2018</b>		
<b>Time:</b>	6:00 PM - Cocktails and Hors D'oeuvres 7:00 PM - Dinner Presentations 8:45 PM - Conclusion	<b>Fee:</b>	\$ 45.00 Member \$ 60.00 Guest \$ 15.00 Student
<b>Location:</b>	<b>WESTBURY MANOR</b> (516) 333-7117 1100 Jericho Tpke., Westbury, NY 11590 <b>Directions are posted at @ <a href="http://www.ashraeli.org">www.ashraeli.org</a></b>		
<b>Presentation:</b>	This month's presentation includes a physical demonstration of a mock mechanical room, it will show inlet/outlet conditions and the effect when a mechanical room is not properly sized.  <b>All attendees will receive 1 PDH.</b>		
<b>About our Speaker:</b>	<p><b>Mark Terzigni</b> is the Director of Engineering for SMACNA. He oversees the development of SMACNA's technical manuals and applications ("Apps"). Other responsibilities include creating and maintaining relationships with industry organizations, representing SMACNA at those organizations, developing technical webinars, CEU/PDH courses, and other educational programs for organizations such as ICC, ASHRAE, AIA, AHR Expo, and SMACNA.</p> <p>Prior to joining SMACNA, Mark was a Technical Service Engineer for McGill AirFlow, addressing technical issues regarding duct construction, design, sound attenuation, and leak testing. Prior to his role as a Technical Service Engineer, Mark was a Sales Engineer for McGill.</p> <p>Mr. Terzigni graduated from The Ohio State University with a B.S. in Mechanical Engineering.</p>		

## Young Engineers in ASHRAE (YEA)

Fall is finally here and so is our first YEA sponsored event of the season!

### **Blue Point Brewery YEA Event**

**When:** November 10, 2018 @ 12PM

**Where:** Tap Room, 161 River Ave, Patchogue, NY 11772

Free Tour at 1 PM for anyone who wants to participate. Must be wearing closed-toe shoes!

**Cost:** Whatever you wish to drink, options in the link below. Snacks will be provided.

<https://www.bluepointbrewing.com/brewery>

**RSVP:** Elizabeth Jedrlinic

[elizabeth.jedrlinic@trane.com](mailto:elizabeth.jedrlinic@trane.com)

516-580-0235

**ALL ARE WELCOME! THERE IS NO AGE RESTRICTION!**



### **2019 Winter Conference in Atlanta**

Make sure you check out the Young Engineers in ASHRAE (YEA) Hospitality Suite

Sunday, January 13 | 4:00 -6:00 p.m.

Young professional members age 35 and younger are invited to visit the YEA Hospitality Suite. The suite offers social and networking opportunities, and light refreshments are served.

If you are interested in getting involved in a Technical Committee, make sure to drop into one while you are at the conference.

[https://www.ashrae.org/File%20Library/Communities/Young%20Engineers%20in%20ASHRAE%20\(YEA\)/Resources/YEA-Technical-Committees-Guide.pdf](https://www.ashrae.org/File%20Library/Communities/Young%20Engineers%20in%20ASHRAE%20(YEA)/Resources/YEA-Technical-Committees-Guide.pdf)

***Elizabeth Jedrlinic***

***YEA Chair***

[Elizabeth.jedrlinic@trane.com](mailto:Elizabeth.jedrlinic@trane.com)



## Research Promotion

I would like to thank the companies who have participated in the annual 2019 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.

There's still time if you would like your company listed in the directory please contact me. The deadline is December 15<sup>th</sup>.



The Directory is intended to provide better communications between manufacturers and their sales representatives; engineers who specify products; contractors who purchase and install the equipment; and other interested parties. Product Directory listings are not limited to ASHRAE members and the listings are not to be considered as advertising or endorsement by ASHRAE of any product, manufacturer or representative.

This year's overall resource promotion goal is \$2,500,000 with over 75 research projects on board. Our chapter is expected to raise approximately \$19,950 towards the overall goal of which we have already raised \$3050. I am hoping I can count on the continued support of all of 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. Please help support ASHRAE in any way you can.

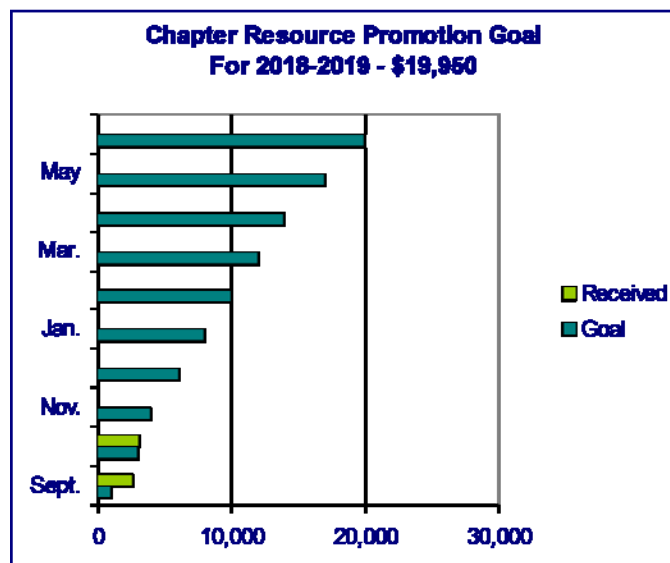
I would like say 'thank you' to all the contributors listed below whom have already donated to ASHRAE this year:

### INDIVIDUALS

Ronald J Kilcarr, PE, CEM  
 Peter Gerazounis, PE  
 Michael Gerazounis, PE  
 John D Nally  
 Andrew E Manos  
 William Artis, Jr  
 Michael Nigro  
 Matthew Vitrano  
 Donald Kane, PE  
 Elizabeth Jedrlinic  
 Frank Paradiso  
 Richard Halley  
 Murat Bayremoglu

### COMPANIES

Catan Equipment Sales  
 Accuspec, Inc  
 Gil-Bar Industries, Inc.  
 Trane



### CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

1) You can mail your checks, made out to ASHRAE Research Promotion, to:

Andrew Manos, LEED AP BD+C  
 ASHRAE Research Promotion Chair  
 c/o Stony Brook University  
 Campus Planning, Design and Construction  
 Research and Support Services, Building 17, Suite 160  
 Development Drive, Stony Brook, NY 11794-6010

2) You can bring your check to any of the meetings and give it to me. I will mail it into headquarters.

3) You can contribute via PayPal from the ASHRAE LONG ISLAND web site, just click on the donate button.

4) You can contribute directly on-line. [www.ashrae.org](http://www.ashrae.org)

**\* Please make sure you accredit your contribution to the LONG ISLAND CHAPTER 006 \***

Thank you again for all of your support!

**Andrew Manos, LEED AP BD+C**  
**Research Promotion Chair**



## Membership Promotion

Welcome to the Membership Promotion section of the newsletter. Our MP Committee is responsible for recruiting and retaining members of ASHRAE Long Island, and to ensure our members are receiving value for their membership. Throughout the year, we will be hosting numerous meetings and events for our members to encourage professional development and networking. We will be using our MP Blog to update the chapter on all of our events, as well as posting information regarding chapter updates, and recognizing member achievements.

<http://www.ashraeli.com/blog>

**Bill Artis**  
**Membership Chair**



## Student Activities

Student meetings are underway at our SUNY Stony Brook, NYIT and Suffolk Community College Chapters. This year we look forward to adding more students.

Our November meeting is designated a student activities night. We welcome our student members to this meeting. The dinner meeting will be free for those student members. In addition we will be supporting students who decide to join our chapter. Bring your filled out membership application for student membership! We look forward to seeing you. If you haven't seen it yet ASHRAE Student Zone <https://www.ashrae.org/communities/student-zone> is a great place for student to go on line and learn more about ASHRAE and the multiple resources available to you.



The ASHRAE Senior Undergraduate Project Grant Program is still accepting applications. This 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 through the design and construction of senior projects. Grants are to be used to fund equipment and supplies for senior 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. See the Student Zone for more information.

Students who are currently enrolled or soon to be enrolled in an engineering undergraduate degree should take a look at <https://www.ashrae.org/communities/student-zone/scholarships-and-grants>. There are 6 undergraduate scholarships available ranging from 3,000 to 10,000 dollars! If you would like more information take a look at the website or see myself or James Hanna.

**Frank Paradiso**  
**Research Promotion Chair**

**James Hanna**  
**Research Promotion Chair**

## Refrigeration

The following article was taken from the University of Colorado's Boulder Today:

CU Boulder and University of Wyoming engineers have successfully scaled up an innovative water-cooling system capable of providing continuous day-and-night radiative cooling for structures. The advance could increase the efficiency of power generation plants in summer and lead to more efficient, environmentally-friendly temperature control for homes, businesses, utilities and industries. The new research demonstrates how the low-cost hybrid organic-inorganic radiative cooling metamaterial, which [debuted in 2017](#), can be scaled into a roughly 140-square-foot array—small enough to fit on most rooftops—and act as a kind of natural air conditioner with almost no consumption of electricity.

"You could place these panels on the roof of a single-family home and satisfy its cooling requirements," said Dongliang Zhao, lead author of the study and a postdoctoral researcher in CU Boulder's [Department of Mechanical Engineering](#). The technology, which takes advantage of natural radiative cooling principles, is [described today in the journal Joule](#).

"As Earth's temperature warms due to the absorbed heat from the sunlight during the day, it continuously emits infrared light to the cold universe all the time," said Professor Ronggui Yang of Mechanical Engineering and lead author of the study. "During the night, Earth cools down due to the emission without the sunshine."

The researchers' film-like material reflects almost all incoming sunlight while still allowing an object's stored heat to escape as much as possible, keeping it cooler than ambient air even in the midday sun.

"The material, which we can now produce at low cost using the current roll-to-roll manufacturing techniques, offers significant advantages," said Associate Professor Xiaobo Yin of Mechanical Engineering and CU Boulder's [Materials Science and Engineering Program](#).

"We can now apply these materials on building roof tops, and even build large-scale water cooling systems like this one with significant advantages over the conventional air conditioning systems, which require high amounts of electricity to function," said Associate Professor Gang Tan of the University of Wyoming's Department of Civil and Architectural Engineering.



The researchers tested their system outdoors in a variety of weather conditions, including wind, precipitation and humidity. In experiments conducted in August and September 2017, their proprietary RadiCold module kept a container of water covered by the metamaterial 20 degrees Fahrenheit cooler than the ambient air between 12:30 p.m. and 3 p.m., the most intense summer sunlight of the day.

The researchers also introduced an element of dynamic scheduling to their technology, anticipating that structures such as offices may have limited or no cooling demand at night. In a building-integrated system, however, a cold storage unit could be added to capture the cold through heat transfer fluid such as water in this system and allow it to be retrieved during the subsequent day to reduce the cooling strain during peak demand periods.

"We have built a module that performs in real-world, practical situations," said Yang. "We have moved quite far and fast from a materials level to a system level."

The RadiCold module could become a viable solution for supplemental cooling for single-family homes, businesses, power plants, municipal utilities and data center facilities among other potential applications, Yang said.

Additional co-authors of the study include CU Boulder graduate students Ablimit Aili and Yao Zhai as well as senior undergraduate students Jiatao Lu and Dillon Kidd of Mechanical Engineering. The U.S. Department of Energy's Advanced Research Projects Agency – Energy (ARPA-E) provided funding for the research. Startup company Radi-Cool Inc holds an exclusive option to the technology through March 2019.

**Michael Razzano**  
Refrigeration Chair



## CTTC

When selecting the air-moving components of an HVAC system, there is no shortage of data available from the various vendors regarding the performance of their products (now much of it available, literally, at the tip of our fingers via Smartphone apps) and it would appear a simple task to select the proper components given the constraints of air-flow requirement and energy considerations. However, while the published data is invaluable for purposes of comparing various selections, one must keep in mind that the data published (regardless of the supplier) is based upon testing under very specific conditions, easily duplicated in a laboratory environment...maybe not so easy to duplicate in a real-world HVAC installation. If our real-world installations comprised only straight runs of ductwork of all the same size, without anything intruding into the duct itself, then the laboratory might reflect actual performance more closely. Alas, our real world installations exhibit various losses not present in the laboratory environment; the so-called System Effect. We have frictional losses (duct material/finish and linings), dynamic losses (changes in direction/velocity) and pressure drop losses (from components installed in the duct or at terminal locations). A key point to consider is the concept of "static regain" downstream of a fan. If sufficient distance is not allowed between the fan outlet and the distribution components (such as VAV boxes), there will not be a uniform pressure/velocity profile across the cross section of the duct and, more than likely, the system will not perform as anticipated and be difficult (or impossible) to properly balance. Ideally, we would like to have a straight section of duct, equivalent to the so-called "100% Effective Length", from the fan outlet to any device in the system. This value is frequently taken (for velocities less than 2,500 feet-per-minute) as two and one half times the duct diameter (or equivalent diameter to a given rectangular duct). For velocities in excess of 2,500 feet-per-minute (which may bring about issues of noise control, also) the velocity, divided by 1,000 times the duct diameter will result in the 100% Effective length. The equivalent duct diameter (when dealing with an installation of rectangular duct) can be found from published tables, use of a duct calculator (such as a Ductulator®) or one of the Apps now available for smart phones) which will differ from a direct comparison of cross-sectional areas. The equivalent duct diameter will represent a round duct with the same resistance to airflow as the rectangular cross-section selected. While it is desirable to maintain a straight duct section of the 100 percent effective length downstream of a fan, if a section equal to half this length is maintained, one will achieve approximately 80 percent static regain. Again...in the real world it is not always possible to achieve the ideal configuration and space constraints may require changes in direction and/or size and configuration. Careful use of a discharge evase and/or turning vanes in elbows can help "smooth out" the air flow and minimize non-homogeneity in the air flow, especially if the elbow is preceded by a duct length less than four times the elbow inlet diameter.



Now that one has taken into account "System Effect" and designed and installed a system with no serpentine bends in the air path or abrupt transitions in cross-section is that a guarantee of continued efficient operation? Not unless you factor in that factor that is whispered about, but frequently forgotten when budget time comes.....MAINTENANCE! No matter how well designed and installed the system is, unless it is maintained at its original level of performance, efficiency will suffer. Maintenance doesn't end at replacing failed components and replacing filters. One should establish the baseline performance parameters and monitor the system to be aware if any anomalies occur. These could range from loose sound damping material blocking the air flow, an access door left open after a filter change or someone using the air handler as a storage locker. Remember, good design and installation is only the start...operation and maintenance is where efficiencies will be sustained.

**Donald W. Kane, P.E.**  
**CTTC Chairman**

## Grassroots Government Activities Committee (GGAC)

Here are some highlights from recent Federal Government Affairs from the ASHRAE Government Affairs Updates webpage that you might be interested in:

### Supreme Court Denies Appeal for HFC Case

The Supreme Court denied an appeal by manufacturers and environmentalists to rehear *Honeywell v. Mexichem Fluor*, a case that struck down an Obama-era EPA rule requiring the phase-down of hydrofluorocarbons (HFC). The case, which was last ruled on in 2017 by the U.S. Circuit Court of Appeals for the District of Columbia, allows for the continued use of HFCs that have high global warming potential (GWP).



### DOE's Electricity Advisory Committee Meets to Discuss Grid Modernization

The U.S. Department of Energy (DOE) held an Electricity Advisory Committee (EAC) meeting on October 17 covering the topics of grid resilience and grid modernization. Assistant Secretary of the Office of Electricity Bruce J. Walker and Gil Bindewald, the Director for Advanced Grid R&D at DOE addressed attendees.

### DOE Announces Research Funding for Solar Generation Projects that Increase Resiliency

The U.S. Department of Energy (DOE) announced up to \$46 million in research funding for solar generation that will help advance "holistic solutions that provide grid operators the situational awareness and mitigation strategies against cyber and physical threats." The funding will be used over the next 3 years on 10 projects to support critical infrastructure.

**Andrew Blom**

**Grassroots Government Activities Chair**



## History - Past President Interview with Andy Manos

**Elizabeth Jedrlinic**

**History Chairman**

[Elizabeth.jedrlinic@trane.com](mailto:Elizabeth.jedrlinic@trane.com)



**Andy Manos**  
2013-2014  
Past Chapter  
President

Andy Manos has been heavily involved in the Long Island Chapter of ASHRAE for years. He is also holds a position at the Regional Level. He was kind enough to take some time and share some of his experiences through ASHRAE both as President and as a chapter member.

Name & Title: **Andrew Manos, Mechanical Engineer**

Born & Raised: **West Islip, NY**

Schools: **NYIT**

Degrees: **BSME**

1. What attracted you to engineering and the HVAC industry? I have always had a mechanical mind and pursued an internship for an engineering firm while in High School. While at this internship I decided to go to college for mechanical engineering at NYIT. It was at NYIT where I was introduced to the HVAC industry. I had taken HVAC related courses and enjoyed them. I met many people in these courses and was told of a job opportunity in the field which I interviewed for and was hired.

2. What was your first job in the HVAC industry and where did it lead? My First Job was at James Lasala designing Data Centers, Schools, Office Buildings etc... across the country. It led to learning many different design aspects based on location, building types and requirements of the clients. It was also at James Lasala I met my mentor Joe Leno, he taught me many different aspects of MEP design and without his technical expertise it would have been difficult to advance as far as I have.

3. Describe the industry at that time. The industry was doing very well in the late 90's to early 2000's since the economy was being fueled by the dot commers. Once the economy collapsed Schools and Fire Departments became the next trend of MEP Design

4. How and when did you get started in ASHRAE? While in College I was a student member but it was not until I started working at James Lasala that it was recommended for me to become more active and join the board.

5. What was your ASHRAE chapter, regional and Society experience? While in the chapter I moved up through the many different positions through the years and learned what each chairs responsibility was and how that related to the operations of Society. Now that I'm in the Region, I support the chapter chairs in assisting them in their operations to ensure that the chapter is successful. At the Society Level I'm a member of many Technical Committees including TC 9.1 Large Building Air-Conditioning Systems and 9.8 Large Building Air-Conditioning Applications.

6. What was your presidential theme? My theme followed the Society Presidents theme which was "Shaping the Next" which involved, how we can reach the future we desire for ASHRAE, for our industry, and for our world.

7. What do you consider to be the major accomplishments during your term? Getting all the chairs to come together and earn the Golden Gavel Award for the chapter's accomplishments.

8. What has ASHRAE meant to you personally? ASHRAE is what you make it, I have learned a lot about the industry and will keep on learning with all the new technology coming out. I have met many great people from all different walks of life through the years and it is this that I keep on being an active member.

9. What advice would you give to a young person entering the HVAC field? There are many resources available to you, by joining your local ASHRAE chapter and getting involved you will meet many great people and it is through these relationships you can advance your career.

10. What other interests and/or hobbies do you have? I like to restore classic cars, my previous restoration projects were a 1965 Buick Skylark, a 1968 Impala Super Sport Convertible and my current projects are a 1977 GMC ¾ ton Pickup and a 1971 Oldsmobile Cutlass.

## BOG Meeting Minutes

**BOG Meeting, Long Island Chapter**

October 9, 2018

5:00 PM

Location: Westbury Manor, Westbury, NY

Board of Governors		
President	Richard Halley	X
President Elect	Frank Paradiso	X
Vice President	James Hanna	X
Financial Secretary	William Artis	X
Treasurer	Mathew Vitrano	X
Secretary	Murat Bayramoglu	
BOG-1	Michael Nigro	X
BOG-2	Elizabeth Jedrlinic	X
BOG-3	Andrew Blom	X
BOG-4	Mathew Catan	X
BOG Immediate President	Andrew B. Dubel	X
	Don Kane	X
	Brian Simkins	X

**Roll Call: The above noted individuals were present.**

**Call to Order**

**5:06 PM :**

**Secretary (Murat Bayramoglu) (Matthew Catan)**

Meetings minutes - Comments/Additions– Turnover meeting minutes approved by all present BOGs.

**President (Richard Haley) Chapter Operations [min-600/Par-1200] Total Points: 755**

- PAOE- Keep updated
- New Letter: Newsletter and meeting notice separate.
  - ◇ 1<sup>st</sup> of the Month: E blast with presenter Meeting reminder, presenter information, and bio
  - ◇ 1<sup>st</sup> Tuesday of Month: The Tuesday before the meeting is when the second blast goes out (or at bills discretion).
  - ◇ Day Prior to ASHREA Meeting: Newsletter goes out the day prior to the meeting.
  - ◇ Committee Articles: The articles are due the first Tuesday of the month.
  - ◇ Templates: two templates – one has a newsletter, one doesn't have a newsletter.
  - ◇ Make sure you copy Bill on all the newsletter emails.
- Motion to approve the Minutes: Frank approved Liz second. Motioned Passed

**Programs (Frank Paradiso)**

- Oct meeting: Refrigeration night article
- Nov meeting: Joint meeting with SMACNA
- Dec meeting: Belimo & Holiday party
- Jan meeting: John Naly
- Feb meeting: Joint meeting with USGBC
- March meeting: DL (To be finalized)
- April meeting: DL (To be finalized)/Field trip (Jacob Javits Center/Blue Point Brewery proposed)
- May meeting: Field trip (Covanta field trip) 2. Tuesday
- June meeting: ?
- Other Notes:
  - ◇ Conference Call this Wednesday to finalize the schedule
  - ◇ Andy Emailed the DL's for engineers' week and they responded that they are going to be in February. We need to have the original request in for the allocated DL soon. Patricia Graff is confirmed as a DL. There is a form Frank needs to fill out

## BOG Meeting Minutes

### Chapter Technology Transfer (Don Kane Chair, Michael Nigro) [min-550/par-1050] Total Points: 300

- Facebook updates
- DL requests
- Need to get all the speaker and topics lined up

### Financial Secretary (Bill Artis)

- Sponsor report: Trane Platinum. Working on Daiken. We are short of goal
- Budget – Reviewed
- Chapter financial status
- Monthly meeting sponsor are \$500 for vendors, \$350 for engineering

### Treasurer (Mathew Vitrano)

- Treasures Report has been received and recorded

### Government Affairs (Andrew Blom) [min-500/par-650] Total Points (0)

- Activities: We are doing Day in the Hill Again. In September Coumo introduced HFC initiatives. It should be pretty good this year. Date Pending.
- USGBC
- Public relations Andy Manos

### Historian (Elizabeth Jedrlnic) [min-100/par-300] Total Points (350)

- Articles/interviews of past president's Potential life-members/fellows
- Andy needs to fill out the sounder sheet.
- History of YEA in the spring.

### Honors and Awards Chair (Brian Simkins)

- Service awards/Technical Awards
- Candidate Projects
- If there are any projects let Brain know

### Research Promotion (Andy Manos) [min-800/par-1050] Total Points (0)

- Vendor Book
- 50/50
- Goal 30 (The goal to be found out)
- Full circle is due the end of the month. Scholarships have already been taken care of.

### Refrigeration (Michael Razzano)

- Updates: Mike is planning one Refrigeration Tour. Working on setting up technical tour for the Javet Center. Still waiting on the approval by the end of the month.
- Andrew: motion to make official ASHREA event – Frank seconds, Liz Seconds, everyone approves.

### Membership Promotion (Bill Artis) [min-500/par-800] Total Points (475)

- Membership Upgrades: Have not looked at
- Delinquency reporting: Currently have 4
- New members: Started at 289 – right now we are at 291
- Planned events – membership promotion next month SMACNA
- Events budgets – CRC - haven't spent any money yet
- No new member pins

### Student Activities (Frank Paradiso Chair, James Hanna) [min-300/par-500] Total Points (100)

- Scholarships
- Student membership update.
- Stony Brook: Trying to get a meeting with two Professors. Possibly inviting to SMACNA Meeting
- Suffolk
- Hofstra
- NYIT: Speaking with Bill about getting a few people into ASHREA
- Other: There is a Master's Energy management course available to take

## BOG Meeting Minutes

### YEA (Elizabeth Jedrlnic)

- 2018 Plan Similar events will be organized
- Budget?
- First Event: First event is going to be in November – Brewery or Many Fall Events happening in Long Island
- Family Day Event: At Belmont Race track October 20<sup>th</sup>. \$5 Entry.
- Racecar Event: February and Joint event. Will work on closer to year end.
- Goal: Brief presentation with a student activity committee and speak about HVAC careers
- Other: Frank is scheduled for the 2.0 Event. Which is in Liz budget for reimbursement and approved.

### Reception & Attendance (Matt Catan)

- Crushing

### Electronic Communications [min-250/par-600](50)

- Temp address
- New site active! [www.ashraeli.com](http://www.ashraeli.com)
- Recovery of old address (Ongoing)
- Approved the preliminary budgets at CRC which included the upgrade of the website to a new site.
- Motion: Bill: Motion to release Web page funds; after vote motion approved.

### Golf (Peter Gerazounis/Tom Fields)

- May 13<sup>th</sup>
- No Additional Report.

### New Business...

- No New Business

### Next BOG Meeting

Location: Westbury Manor

Date: 11/13/2018

Time: 5:00PM

Motion to Adjourn

5:59 PM



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

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**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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