

THE LONG ISLAND SOUNDER



ASHRAE Long Island Chapter, Region I...Founded in 1957

www.ashraeli.org

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

Inside this issue:

President's Message	1
LI Chapter Officers	2
Meeting Schedule	3
BOG Meeting Minutes	4-5
LI Past Presidents	6
PAOE	6
Programs	7
Research Promotion	8
CTTC	9-10
Membership	11
Student Activities	11
GGAC	12-15
History	16-17
YEA	17
ASHRAE Conference	18
May Meeting Pictures	19-20
Golf Outing Pictures	21-23
ASHRAE Memo	24
Fishing Trip Pictures	25-26
ASHRAE Social Media	27
ASHRAE Ticket Books	28
ASHRAE Certifications	29
Advertisements	30-33

President's Message

Hello everyone, and welcome to the last Long Island Sounder of our 2015-2016 season. It has been a great year for ASHRAE Long Island, with many wonderful lectures, our Holiday Party, and last week a very successful Golf Outing. I would like to thank all of the sponsors and participants for making this year's outing a great time! Special thanks goes out to Peter Gerazounis, John Nally, Ray Schmitt, Steve Friedman and all those who helped organize and run the outing. Mother Nature cooperated as well.

I would also like to thank each of the Board Members, Committee Chairs and volunteers for a great job this year! It is these dedicated individuals who make all of the monthly meetings, newsletter and planned events happen. There is behind the scenes coordination and preparation that these members go through on a monthly basis and truly each one did an exceptional job.

This chapter meeting will be the Installation of Officers for the 2016-2017 year. We will be installing the newly appointed Chapter Board of Governors and Committee Members as follows: Donald Kane, PE, *President*, Andrew Dubel, PE, *President Elect*, Richard Halley, *Vice President*, Frank Paradiso, *Financial Secretary*, James Hanna, *Treasurer* and William Artis, *Secretary*. Elected to the Board of Governors are Matthew Vitrano, Murat Bayramoglu, Michael Nigro and Thomas Fields, PE.

We are happy to award several scholarships this year. Our recipients will be at our June meeting to receive their awards. Please attend and support our students! We will have our traditional history quiz this month with fun prizes awarded to those who are up on their ASHRAE history.



CHAPTER MONTHLY MEETING

DATE:	Tuesday, June 14, 2016
TIME:	6:00 PM - Cocktails 7:00 PM - Buffet Dinner
LOCATION:	Westbury Manor 1100 Jericho Tpke. Westbury, NY 11590
FEES:	
Members -	FREE FOR MEMBERS
Guest -	\$45
Student -	\$15

This summer, the 2016 Region 1 CRC is in Rochester, NY. Most of the board will be attending. The 2017 CRC will be on Long Island hosted by us! This summer you will be seeing some correspondence regarding our plans for the CRC. Rich Halley is heading up the CRC efforts and we know we are in good hands with him.

I thank you all for allowing me to serve as your Chapter President. I look forward to ASHRAE Long Island's continued growth and success. Enjoy your summer!

Thomas J. Fields, P.E., LEED AP
President - Long Island Chapter

Reservations requested, but not required.

Call (516) 333-7117

Long Island Chapter Officers & Committees

ASHRAE 2015/2016 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	president@ashraeli.org
President-Elect	Charles Lesniak, P.E			president_elect@ashraeli.org
Vice President	Don Kane, P.E.	631.737.9170	631.737.9171	vice_president@ashraeli.org
Financial Secretary	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	finsec@ashraeli.org
Treasurer	Richard Halley	718.269.3809	718.269.3725	treasurer@ashraeli.org
Secretary	Frank Paradiso	631.632.2791	631.632.1473	secretary@ashraeli.org
Board of Governors	Ken Mueller	201.395.3761	763.231.6924	bog1@ashraeli.org
Board of Governors	James Hanna	718.269.3768	718.269.3794	bog2@ashraeli.org
Board of Governors	Bill Artis	201.395.3750		bog3@ashraeli.org
Board of Governors	Richard Rosner, P.E.	631.737.9170	631.737.9171	BOG4@ashraeli.org

ASHRAE 2015/2016 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	Charles Lesniak, P.E			programs@ashraeli.org
Membership	Ken Mueller	201.395.3761	763.231.6924	membership@ashraeli.org
Chapter Technology Transfer (CTTC)	Don Kane, P.E.	631.737.9170	631.737.9171	cttc@ashraeli.org
Grassroots Government Activities Committee	Charles Lesniak, P.E			ggac@ashraeli.org
Newsletter Editor	Liset Cordero	212.643.9055	212.643.0503	editor@ashraeli.org
Research Promotion	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	rp@ashraeli.org
Historian	James Hanna	718.269.3768	718.269.3794	historian@ashraeli.org
Student Activities	Richard Halley	718.269.3809	718.269.3725	sa@ashraeli.org
Chapter Regional Conference Committee	Richard Halley	718.269.3809	718.269.3725	crc@ashraeli.org
Young Engineers in Training	Frank Paradiso	631.632.2791	631.632.1473	yea@ashraeli.org
Webmaster	Richard Rosner, P.E.	631.737.9170	631.737.9171	web@ashraeli.org
Nominating	Michael Gerazounis, P.E., LEED AP	212.643.9055	212.643.0503	nominating@ashraeli.org
Reception & Attendance	Bill Artis	201.395.3750		reception@ashraeli.org
PR & Engineering Joint Council of LI	Andrew Manos, LEED AP	631.632.2791	631.632.1473	pr@ashraeli.org
2014 CRC Committee	Richard Halley	718.269.3809	718.269.3725	CRC@ashraeli.org
Golf Outing	Peter Gerazounis, P.E., LEED AP	212.643.9055	212.643.0503	golf@ashraeli.org

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

Editor's Note: The appearance of any technical data, editorial material, or advertisement in this set of publications does not constitute endorsement, warranty or guaranty by ASHRAE of any product, service, procedure, design, or the like. ASHRAE does not warrant that information is free from errors, and ASHRAE does not necessarily agree with any statement or opinion in this set of publications. The entire risk of the use of any information in this set of publications is assumed by the user. Statements made in this publication are not expressions of the Society or of the Chapter and may not be reproduced without special permission.

Chapter Monthly Meeting - Program for 2015/2016

September 8, 2015 * At Westbury Manor  Dinner Presentation – Commissioning Considerations for VRF Systems Presenter: Bill Artis **1 PDH**	February 2016  NATIONAL ENGINEERS WEEK
October 20, 2015 * At Westbury Manor  Dinner Presentation— “Dr. Duct Tape” Presenter: Max Sherman, PhD **1 PDH** ASHRAE DISTINGUISHED LECTURER <i>Back to Basic Session I -</i> **1 PDH** <i>“Selecting and Designing Refrigeration Equipment Component Packages”</i>	March 8, 2016 * At Westbury Manor  Dinner Presentation— Boiler and Generator Fuel Oil Pumping and Distribution Presenter: Ed Twiss **1 PDH** Joint meeting with LI-Geo YEA Night <i>Back to Basic Session III –</i> **1 PDH** <i>“Design & Theory of Smoke Purge System Design”</i>
November 10, 2015 * At Westbury Manor  Dinner Presentation-- Phenolic Duct Construction Standards Presenter: Eli P. Howard, III **1 PDH** Resource Promotion Night Joint meeting with SMACNA Student Activities Night & YEA Night as well as Membership Promotion and Upgrade Night	April 12, 2016  ANNUAL FIELD TRIP - 10:30 AM to 1:30 PM Blue Diamond Sheet Metal Inc. 1165 Station Road, Medford, NY 11763 Tour complimentary for all Members (lunch afterwards - pay your own way at Ruby Tuesday)
December 8, 2015 * At Westbury Manor  HOLIDAY PARTY Free Buffet Dinner for Members	May 10, 2015 * At Westbury Manor  Dinner Presentation— Using Water-Cooled Chillers to Exceed ASHRAE Minimum Efficiency Standard by >50% Presenter: James M. O'Donnell, P.Eng., CEM, LEED AP **1 PDH** Student Activities Night Refrigeration Night
January 12, 2015 * At Westbury Manor  Dinner Presentation– Energy Storage: A Vital Ingredient in a Lower Carbon Future Presenter: Mark M. MacCracken, P.E., Pte. LEED Fellow **1 PDH** ASHRAE DISTINGUISHED LECTURER <i>Back to Basic Session II -</i> **1 PDH** <i>“The Rise of Variable Flow Primary and the Fall of Primary/Secondary/Tertiary Pumping Systems “</i>	May 23rd, 2016 * Cherry Valley Club, Garden City, NY ANNUAL GOLF OUTING 
January 2016  ASHRAE Winter Meeting	June 14, 2016 * At Westbury Manor Free Buffet Dinner for Members PAST PRESIDENTS NIGHT & OFFICER INSTALLATION STUDENT SCHOLARSHIPS TO BE AWARDED ASHRAE History Quiz and prize Give-A-Ways
February 9, 2016 * At Westbury Manor  Dinner Presentation—Air Movement for Energy-Efficient Comfort in Conditioned Spaces Presenter: Laurel Christensen **1 PDH** Joint Meeting with USGBC Resource Promotion Night Membership Promotion Night	August 18-20, 2016 Chapter Regional Conference (CRC) Region I http://www.ashrae2016crc.com/

BOG Meeting Minutes

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

BOG Meeting, Long Island Chapter / Tuesday May 10, 2016 / 5PM / Westbury Manor

Call to Order / Review of Agenda

Secretary (Frank Paradiso)

- Meetings minutes – approval
- Comments/Additions

President (Thomas Fields)

- PAOE – Latest Updates are due. We are behind.
- ARTICLES, DUE 5/23! PLEASE GET THESE IN! Liset is quite unhappy that she is rushing the newsletter.
- Looking to do short presentation on TC/TAC in ~~March~~ May, for PAOE. Bill Artis to assist.
- BOG ballot mailed out. Waiting on responses. Will need to count before June meeting.
- CRC registration for Rochester.
- We have a lot to achieve in the next month for Chapter duties, deadlines and events
- Please Update PAOE points with new activity and occurrences

Programs (Charles Lesniak)

- Sponsors for cocktail hour – one left. Any takers?

President-Elect/Chapter Technology Transfer (Don Kane)

- Keep sending info on special events -
- PAOE
- New committee positions for 2016-2017
- Membership
- RP – Frank (Needs to attend training in Chicago, book flights) (July)
- YEA
- GGAC
- SA
- Web
- Golf
- Awards
- History
- Refrigeration
- Others? Additional members and volunteers need to be organized and scouted.

Treasurer (Richard Halley)

- Newsletter invoicing
- Expenses/Reimbursements – is Lee still outstanding?
- CRC Monies.
- Money for Golf Outing.
- New members for committees
- Attendance for CRC in August?
- The chapter is looking for additional help/volunteers for Reception
- There are several spots in the chapter that need filling for the upcoming year.
- Balance: \$14,080.70

Grassroots Government Activities (Charles Lesniak)

- Get local officials on mailing list.

Historian (James Hanna)

- Articles
- Digitizing records
- Pictures need digitizing
- Follow up with Neil Rosen on Habitat for Humanity – Update?
- No update, information regarding USGBC Gala
- Begin the process for the calculations for Habitat for Humanity's project soon?
- Trivia for June. Need wine/beer for gifts. Can you buy and be reimbursed?

Honors and Awards Chair (Brian Simkins)

Cont'd. on Page 5

BOG Meeting Minutes (Cont'd. from page 4)

- Nominations this year.

Research Promotion (Andrew Dubel)

- Status update.
- Vendor Book update.
- The Book is to go out next week
- The year's RP target is \$17,000 and we are near \$11,000

Membership Promotion (Bill Artis)

- Maintain delinquencies less than 2%
- Upgrade membership from associate to member – we had one, any others?
- Recognition of new members at chapter meetings.
- PAOE

Student Activities (Richard Halley)

- Scholarships – status?
- Scholarship vote carries to have increase scholarship to one additional recipient based on the great applications.
- Student membership update.
- Stony Brook Chapter Update
- Suffolk, Hofstra, NYIT
- PAOE needs updating.

YEA (Frank Paradiso)

- Events over summer?
- Smart Start promotion
- Continue with YEA event Ideas, German Beer Hall would be ideal for a Saturday

Web Master

- Newsletters need to be uploaded – Does anyone know how to do this without consultant? Have gotten no response.
- Update – newsletters are uploaded but not the CIQ.

CRC 2017 (Richard Halley)

- Update on the event planning
- Proposed meetings 4th Tuesday of month - minutes?
- Video production/presentation for Rochester CRC?
- CRC presentation is in the works as well as the Video
- April CRC meeting postponed/cancelled

Golf (Peter Gerazounis)

- Get them involved in the CRC golf event planning, if they can.
- Steve is looking to step down. We will need assistance with this going forward. Nominations? Still open. This is important for next year. TJF will likely help out next year.

Old Business

- New scanner works.
- Ticket Books will be available upon request

New Business

- Sammy Chu Course Offered, NYSEDA Energy

Time/Place of next BOG Meeting – June 14, 2015 – Westbury Manor – 5PM

- Advertise open positions
- Fishing Trip on Friday, June 3rd

Motion to Adjourn

Long Island Chapter - Past Presidents

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



PAOE POINTS FOR 2015/2016

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	GGAC	Chapter PAOE Totals
282	135	250	1,370	400	1,055	1,675	175	5,060

June Program

The Long Island Chapter's Year End Celebration

Past Presidents Night, Student Scholarship Night



DATE:	TUESDAY, JUNE 14, 2016		
Time:	6:00 PM – Cocktails and Hors D'oeuvres 7:00 PM – Buffet Dinner	Fee:	NO CHARGE FOR MEMBERS \$45 for Guests \$15 for Students
Location:	WESTBURY MANOR (516) 333-7117 Jericho Tpke (South Side), 3/10 of mile east from Glen Cove Rd., Nassau County, NY. Directions are posted at @ www.ashraeli.org. - Reservations requested but not required. Business attire suggested		
Presentation:	Please join us for our ASHRAE year-end meeting celebrating our past presidents and new officers. There will be no charge for our chapter members and guests, and we have arranged for a special buffet dinner and open bar for the evening. Our past presidents will be asked to talk a little about their ASHRAE experience during their board years and we suspect there will be some interesting stories. We will be having a Long Island Chapter trivia contest with prizes and our historical archives will be on display. The winners of our student scholarships will be present to receive their awards and we will finish off the evening with the installation of our new officers. Please mark your calendar for this special day and join us for some great conversation and excellent food and spirits compliments of the chapter.		

CHAPTER MAY NOT ACT FOR SOCIETY

An International Organization

Research Promotion

We are closing in our fund raising dead line of June 30th. So far we have raised over \$16,340. If you have not donated yet, there is still time! We have almost achieved our Goal amount. While this is great, we will push on towards our Challenge Goal amount. All donations supporting ASHRAE research are 100% tax-deductible. ASHRAE's research program, established in 1912, supports 140 research projects with a combined value of more than \$15 million. Research focus includes energy and resource efficiency, indoor environmental quality, design and operation and management tools, alternative technologies and materials and equipment. Reach out to any chapter officer to find out how you can donate now!



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

INDIVIDUALS

Frank D Morgigno	Thomas Fields, PE
Michael Gerazounis, PE	Ricky Gaska
John D Nally	James R Tauby, PE,
Andrew E Manos	Chris M Sideris
Donald W Kane, PE	Richard J Pearson, PE
William Artis, Jr	Steven Benkovsky
Richard L Rosner, PE,	Evans J Lizardos
Andrew B Dubel	Anthony J Rosasco, Sr
Charles J. Lesniak, PE,	Ronald J Kilcarr, PE
Robert J Fuchs	Frank D Morgigno
Frank Paradiso	Jerome T Norris
Richard I Halley	Marcel A Bally
James Hanna	Jerome A Silecchia

COMPANIES

SMACNA - Long Island	Building Cooling Systems
Accuspec Inc	Wales Darby Incorporated
Long Island ASHRAE Chapter	Venco
Vmc East Incorporated	SRS Enterprises Inc
RPG Associates	Klima - New York
Technical Air Systems Incorporated	Catan Equipment Sales
Analytical & Combustion Systems	Bush Wholesalers
Albert Weiss Air Conditioning Products	Miller Proctor Nickolas Inc
Metro Air Products	Bladykas Engineering P C
Rathe Associates	ASAP Sales
M V Controls	EMTEC Consultants Professional
PVI Industries- Ft. Worth	Eng
Long Island ASHRAE Chapter	Anron Heating & Air Conditioning Inc
Dagher Engineering	Mitsubishi Electric Cooling & Htg
A. E. F. Sales	Albert Weiss Air Conditioning Prod-
Lizardos Engineering Associates PC	ucts
Analytical & Combustion Systems	Mason East Inc.
Wallace Eannace Associates	RMF Engineering
Gilbar	

CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

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

Andrew Dubel, P.E.
ASHRAE Research Promotion Chair
c/o Lizardos Engineering Associates PC
240 West 35th Street, Suite 304
New York, NY 10001

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

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

Thank you again for all of your support!

Andrew B. Dubel, P.E.
Research Promotion Chair



CTTC - Technology Transfer - What's it all about?

What is Technology Transfer....and why do we need it? Why do we have a Chapter Technology Transfer Committee (CTTC)? What function does this committee identified by this palindromic acronym perform?

Many years ago some unnamed sage noted that, "if you always do what you've always done, you'll always get what you've always got". Albert Einstein is reported to have defined insanity as; "doing the same thing over and over again and expecting different results"; and those who have dealt with large governmental authorities may be familiar with the concept of ... "progress without change".

For years, Og and his family subsisted on dinosaur tartare...until someone discovered fire. Once the novelty of being able to cook the fruits of his hunt wore off, it no doubt occurred to him that doing this indoors was filling his cave with smoke and negatively affecting indoor air quality. He became the first to understand that as you solve one problem, you frequently create another one (unintended consequences); but more on this later, the point being that developing new processes and tools is a normal part of the development of a civilization.

Since in today's world, advances in technology seem to appear almost daily...some with great benefit....while others appear to only benefit the ones promoting it. In a previous article, we discussed the various stages of development of a product...from concept, through prototype and finally into production and use. While those in academia have an interest in all ideas and proposed products, from a strictly theoretical angle; those who are involved in specifying, supplying and installing air-conditioning and refrigerating equipment need to be sure they are not acting as the lab-mice for an untested concept. While technology transfer is most certainly involved at the academic level, it is the transfer of technology to the "real world" that is of most interest to the majority involved in the HVAC/R field. This is where the designers and engineers integrate newer approaches (or old approaches that have been refined using newer technology) into their designs for the end-users.

How is one to keep up with all of the products and processes being announced on an almost daily basis? The good news...today's media permits Web searches, access to manufacturer's web-site data and tools and directed e-mailings from vendors who have made a digital note of your interest and/or involvement in the field. The bad news...that same media allows us to be inundated by more information than it is possible to keep up with. While email and vendor visits may be the "point of entry" into a new technology or application, they are frequently at least partially biased (let's face it, a car salesman is not going to tell you how great his competitor's vehicle is...no different in the HVAC/R world). While the ASHRAE JOURNAL presents technically supported articles, our Chapter presentations permit one to "get up close and personal"; ask the hard questions and ferret out the wheat from the chaff. The ability to network with your colleagues at these meetings is invaluable when trying to ascertain the viability of a particular technology or product. This is an important part of the Technology Transfer function.

Still, each person has to make up, in their own mind, if a technology is supported by good science and, perhaps more importantly, sound financial benefit. There are often good ideas which do not pass the economic test, while others turn out to be completely bogus. One has to approach any new technology with an open mind, but also, a healthy dose of skepticism. It is always interesting to see how many people read a magazine's April issue and never question the absurdities of the April Fools gag article. Sometimes a new idea may be a great financial investment, for the future, but not as a commercial implementation in the here and now. Sometimes a sound idea may be used in the wrong application. Many can remember the claims that we would all be driving vehicles with rotary engines. In fact, many of Felix Wankel's engines were put to work powering pumps and devices where the load was relatively constant and the sealing ability of the rotor seals were not taxed; but for automotive use it was never economically viable. The other "flag" to be on the lookout for is claims of a universal solution. Be aware of ALL the choices and make sure the technology is implemented because it is correct for the application, not just because it was used somewhere else.

While we have been dwelling on new technology, it is sometimes important to revisit old technology that wasn't quite ready for prime time...needing some new material or control to be viable. The development of PEX tubing, for example, delivered on the promises of radiant slab heating, without the leaking copper tubes which some early Long Island mass-produced houses were infamous for. The appearance of a new approach sometimes leads to an older approach being



CTTC - Technology Transfer - What's it all about? (Cont'd. from Page 8)

put on the back burner, only to be resurrected at a later date. Early radios using a galena crystal and a “cat’s whisker”, (a primitive form of point-contact diode) were relegated to the storeroom shelf when Ambrose Fleming and Lee Deforest developed the vacuum tube diode and triode. Had the vacuum tube not been successfully developed and more research conducted into that crystal technology, solid-state, transistorized electronics may have become available sooner.

Even when new approaches are technically and economically sound, one must be aware of the so-called unintended consequences. These are not necessarily show-stoppers, but they ARE issues that must be considered. As we noted earlier, Og discovered the effects of indoor cooking on his cave’s air quality. Lake sourced heat pump systems have promised to save significant energy costs, however the effects on the lake environment and marine life have not always been fully considered. This is not limited to the HVAC/R world. When traffic lights were first being converted over to LED type light sources (for a considerable savings in energy costs and maintenance costs), it was only after installation in regions with snow and sleet that it was realized that the highly efficient LEDs did not generate enough BTUs to melt the collected snow and the lights visibility was obscured. Cooling towers used at a power generating station in Western Pennsylvania (to minimize thermal effects on the nearby river), has resulted, at times, in a 2 mile by 30 mile “snow cloud” downstream, when the weather conditions are right (or wrong?). More recently, the Ivanpah Solar Electric Generating System (which uses focused mirrors to concentrate the sun’s rays on a steam boiler) suffered from “misaligned mirrors” which concentrated the sun’s rays on some of the facilities wiring, causing a fire event and unit shut-down. This is the same installation which has been known to barbeque avian passersby as they fly through the mirror’s beams.

So..what does this mean for those of us who wish to progress the state-of-the-art in HVAC/R, but do not want to end up with BTU-laden egg on our faces? Never stop learning! Soak up as much information about technology as is possible, and approach all “too-good-to-be-true” announcements with a healthy dose of skepticism. If you do want to utilize a new approach, ask questions and research it until you are satisfied that the facts are as stated and suitable for your application. Whenever possible start small until your comfort level with the technology is satisfied.

Remember that ASHRAE, both on the Society level and the Chapter level is a tremendous source of information and contacts and by actively participating in the various Chapter and Society level functions you will find that obtaining some of the answers to the “hard questions” will be facilitated.

Hopefully, the Chapter Technology Transfer Committee and these monthly ramblings have helped pique one’s curiosity to learn more and question claims that seem to be too optimistic. As I will be moving up in the Chapter hierarchy for the 2016-2017 “season” this will be my last CTTC article for the Sounder. It has been an enjoyable and educational experience and the occasional emails confirming that someone is reading them have always been appreciated.

Don Kane, P.E.

CTTC Chair AND V.P. - cttc@ashraeli.org

Membership

We are pushing for people to upgrade their membership this year, so if you are an Associate Member with 12 years of qualifying experience (education counts); you are eligible to upgrade to earn the distinction of the grade of Member. This can be by updating your ASHRAE bio on for your account at www.ashrae.org, and then notifying member-ship@ashrae.org that you wish to be considered for advancement to the grade of Member. Please feel free to ask me about questions you may have.

Also if you have any friends in the industry you would like to get involved please bring them down to the next meeting. All are welcome, and all it takes is one meeting to see the advantages being a member has to offer.

Bill Artis
Membership Chairman

Student Activities

School is finally out! It's been a great year for our student chapters.

Students who are moving out of their dorms should be sure to update your mailing address for you. This can be done by logging onto ASHRAE.org. If you are losing your school email address, be sure to update that also. You can also update by emailing me at sa@ashraeli.org.

ASHRAE Long Island awarded 4 scholarships this year. All winners and their parents are invited to attend our June meeting where awards will be presented.

Please come to the June Meeting and congratulate our 2016 student scholarship winners;

Have a great summer and we will see you in the fall.

Richard Halley
Student Activities Committee Chair



Grassroots Government Activities Committee (GGAC)

As most of you know ASHRAE is no longer a US based society it has moved itself to a global society, ASHRAE wanted to start a new committee in their local chapters to help it grow globally so it created the GGAC. The main purposes of the GGAC is to serve as a communicator between the local ASHRAE chapters and national, serve as a communicator between the local ASHRAE chapters and other trade organizations, and to update local government officials on ASHRAE standards and technical issues. Please look at the ASHRAE's main GGAC webpage at <https://www.ashrae.org/government-affairs/> and ASHRAE's new GGAC Facebook page at www.facebook.com/ASHRAEGGAC/ for more information what the GGAC is doing nationally. The latest topics which ASHRAE is participating in can be found at the link: <https://www.ashrae.org/government-affairs/government-affairs-updates/government-affairs-updates-05-13-2016>



All, its been an amazing year I have enjoyed being a part of the GGAC committee since its inception. Next year I will no longer be the chair of GGAC and I will pass the torch on.

ASHRAE's Incoming Treasurer Speaks on Building Resiliency at EE Global Conference

Earlier this week, ASHRAE's incoming Treasurer for Society Year 2016-17, Sheila J. Hayter, PE, FASHRAE, LEED AP, spoke as part of a panel entitled "Buildings of the Future: How do we design and construct energy-efficient, resilient and climate adaptive buildings?" during the 2016 Energy Efficiency Global Forum (EE Global). Sheila focused her remarks on zero energy buildings, the harmonization of Standard 189.1 Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings and the International Green Construction Code (IgCC), ASHRAE's participation in the Resilience Building Coalition, and the building Industry Statement on Resilience.

ASHRAE has a number of resources on resiliency, which can be found at www.ashrae.org/resiliency.

Sheila also participated in a press event at EE Global during which she spoke about ASHRAE's activities on a number of areas, including Standard 90.1 Energy Standard for Buildings Except Low-Rise Residential Buildings, Standard 189.1 and the IgCC, Standard 90.4P Energy Standard for Data Centers, and Standard 100 Energy Efficiency in Existing Buildings.

Other speakers at the press event included:

- Kateri Callahan, President, Alliance to Save Energy
- Ani Dasgupta, Global Director, WRI Ross Center for Sustainable Cities
- Kenneth Shiver, Chief Economist, Director, Planning & Regulatory Support, Southern Company
- Tom Dreessen, EVO Chairman & CEO of EPS Capital
- Fleming Voetmann, Head of Public Affairs & Sustainability, Danfoss
- Kelly Speakes-Backman, SVP, Policy & Research, Alliance to Save Energy
- Kevin Bollom, VP of Building Services, Trane
- Harold Jepsen, VP of Standards & Industry Affairs, Legrand's Building Control Systems division
- Mark Kenber, CEO, The Climate Group

EE Global is an invitation-only gathering in Washington, DC that brings together policymakers, high-level executives, and other experts from around the world for in-depth discussions of challenges and strategies for improving energy efficiency. EE Global is hosted by the Alliance to Save Energy (ASE). ASHRAE is a Bronze Sponsor of the 2016 EE Global, and an Associate Member of ASE.

Importance of Resiliency in Buildings Codes/Standards Stressed at White House Event

Helping buildings and their systems withstand and recover from natural disasters requires a lot of technical knowledge. Fortunately, ASHRAE has dozens of resources available to help designers make buildings more resilient. Earlier this week, the Society took part in the White House Conference on Resilient Building Codes.

"The built environment industry strives to design, construct and operate buildings to withstand both natural disasters and man-made hazards," ASHRAE President David Underwood said. "We must use the knowledge gleaned from disasters like the recent earthquake in Kumamoto, Japan, Superstorm Sandy, flooding in India and others, as well as predictions of the effects of climate change, to our advantage to save lives and infrastructure in the future. ASHRAE is pleased to be

Grassroots Government Activities Committee (GGAC) (Cont'd. from Page 11)

part of this effort with allied organizations and make these commitments to protect the public and building stock.”

The White House hosted the event to highlight the critical role of building codes in furthering community resilience and the importance of incorporating resilience and the future impacts of climate change in the codes and standards development process. As part of the conference, the Administration highlighted Federal and private sector efforts aimed at advancing the principles of resilience in building codes and standards and building design.

ASHRAE Director-at-Large Mick Schwedler took part in the conference, serving on a panel focused on codes and standards. Participants discussed the work being done by the codes and standards community as well as how that community can better support state and local officials who are faced with the challenges of cost and risk perceptions. Others on the panel represented the National Institute of Building Sciences, the International Code Council, the National Fire Protection Association and the American Society of Civil Engineers.

As part of the effort, ASHRAE has committed to:

- Utilizing member research funding to support research related to resilience in buildings and building systems.
- Developing, maintaining or revising standards to reduce building loads and their subsequent impact on utilities.
- Working with numerous global partners to encourage adoption of these changes as soon as possible into codes.
- Providing instructional and application tools to implement these substantial improvements.
- Educating the affected stakeholders.

ASHRAE has compiled a webpage of resources on resiliency, which can be found at www.ashrae.org/resiliency.

In addition, ASHRAE, along with other leaders of America's design and construction industry, released a report on progress made on the resilience front since the Resilience Building Coalition announced the building Industry Statement on Resilience two years ago.

The Resilience Building Coalition also released a set of guiding principles to help the building industry adopt resilient design and policies. These include developing and advocating for codes and policies that advance resilience; developing “whole-systems resilient design” approaches for the built environment; and providing guidance, beyond the baseline life-safety codes, that recognizes the importance of fortifying property for individual and community resilience. The report can be viewed at www.ashrae.org/resiliency.

USDA Multi-Family Housing Program to Hold Quarterly Conference Calls

The US Department of Agriculture's (USDA) Multi-Family Housing program will hold quarterly conference calls. Interested individuals can sign up via email to receive the specific dates and times of the calls.

The objectives of this series of teleconferences are to:

- Enhance the effectiveness of the Multi-Family Housing program.
- Establish a two-way communications forum to update industry participants and Rural Housing Service (RHS) staff.
- Enhance RHS' awareness of issues that impact the Multi-Family Housing program.
- Increase transparency and accountability in the Multi-Family Housing program.

Topics to be discussed could include, but will not be limited to, the following:

- Updates on USDA Multi-Family Housing program activities.
- Perspectives on the Multi-Family Housing Notice of Funds Availability processes.
- Comments on multi-family transaction processes.
- Comments on particular servicing-related activities of interest at that time.

For additional information, please [click here](#).

DOE Seeks Public Comment on Reducing the Burden of Regulations

The US Department of Energy (DOE) has issued a request for information (RFI) seeking feedback from the public to help DOE improve the regulatory process to make it more effective and less burdensome.

Written comments and information are requested on or before July 11, 2016. The full RFI can be found by [clicking here](#).

Grassroots Government Activities Committee (GGAC) (Cont'd. from Page 12)

Revisions to Test Procedures for Commercial Water Heating Equipment Proposed by DOE

DOE has issued a notice of proposed rulemaking (NPR) that seeks to revise its test procedures for commercial water heaters, unfired hot water storage tanks, and hot water supply boilers, which collectively DOE refers to as “commercial water heating (CWH) equipment”.

In this NPR DOE proposes to incorporate by reference ASHRAE Standard 118.1-2012 Method of Testing for Rating Commercial Gas, Electric, and Oil Service Water-Heating Equipment to use as the basis for the Federal commercial heat pump water heaters test method, with several modifications discussed in the NPR. The NPR also suggests other changes.

DOE will hold a public meeting on June 6, 2016, from 9:30 a.m. to 12:00 p.m., in Washington, DC. The meeting will also be broadcast as a webinar.

[DOE will accept comments, data, and information regarding this NPR before and after the public meeting, but no later than July 8, 2016. The full proposed rule can be found by clicking here.](#)

DOE Announces Funding to Support Applications for Data-Driven Energy Decision-Making in Local Governments

DOE's Office of Energy Efficiency and Renewable Energy Cities [Leading through Energy Analysis and Planning](#) (Cities-LEAP) project helps cities integrate energy analysis and data into their strategic decision-making.

Cities-LEAP released a funding opportunity announcement (FOA) to support the development and piloting of data-driven decision frameworks by local and tribal governments. These frameworks should advance model practices and processes that improve the ability of local and tribal governments to integrate, analyze, and understand varied datasets in order to pursue opportunities across all clean energy sectors. To develop these frameworks, local and tribal governments are strongly encouraged to partner with entities such as academic institutions, technology companies, utilities, regional planning bodies, and non-governmental organizations.

Successful applications will include strong evidence that proposed model practices and processes can:

- Increase the ability of local or tribal governments to make data-driven decisions regarding actions under their authority that affect energy intensity or energy-related greenhouse gas (GHG) emissions at a reasonable cost.
- Identify and support implementation of local or tribal government actions that can lead to significant and quantifiable reductions in community-wide energy intensity or energy-related GHG emissions.

Applicants are also encouraged to propose energy-related metrics beyond the primary GHG emissions and energy intensity metrics (e.g., air quality, climate change adaptation, quality of life indicators). While this FOA focuses on energy-related actions, other ancillary benefits may be necessary to stimulate action and may even serve as the stronger motivating factor for communities.

The submission deadline for concept papers is May 17, 2016, at 5:00 p.m. EDT. Full applications are due on June 17, 2016, at 5:00 p.m. EDT. [Please click here to learn more, and submit an application.](#)

Senate Passes Comprehensive Energy Bill, Opening the Door for Possible New Law this Year

The Energy Policy Modernization Act is a comprehensive bill that includes many provisions of interest to ASHRAE, such as:

- Support for building energy codes
- The SAVE Act
- Allowing Federal disaster relief funds to be used for energy efficient structures and products (references Standard 90.1-2013)
- Formally establishing the WaterSense program
- Increases interagency coordination of activities related to the energy-water nexus
- Support for data center energy efficiency
- Reauthorization of the Weatherization Assistance Program and State Energy Program
- Workforce development, including the establishment of building training and assessment centers

“The passage of the Energy Policy Modernization Act demonstrates the power of persistent bipartisan leadership by

Grassroots Government Activities Committee (GGAC) (Cont'd. from Page 13)

many leaders throughout the Senate. Each of these Senators understands the need for reform and the dangers that lie ahead if we do not change,” ASHRAE President David Underwood said in a [press release](#) that was issued shortly after the Senate passed S.2012. “This accomplishment is shared by hundreds of stakeholders who have connected with members of Congress, helping them understand the complexities and likely impacts of legislation on the building and many other industries. ASHRAE congratulates the Senate on this accomplishment and stands ready to assist as leaders in both chambers work to produce a final bill that the President can sign, and which truly advances the arts and sciences of HVAC&R to serve humanity and promote a sustainable world.”

The next challenge is for the Senate bill to be combined with the North American Energy Security and Infrastructure Act ([H.R.8](#)), which passed the House last December, and contains a number of controversial provisions. The final combined bill would then be voted on once more by the House and Senate before going to President Barack Obama for his signature or veto.

The long path left have some nervous that not enough time remains this year to get everything done, which would force the entire process to start over, with the added complication of a new President and Members of Congress, and the possibility that both bills could be completely derailed.

High Performance Building Coalition Holds Congressional Briefing on Funding Priorities

The [High Performance Building Coalition](#) held a briefing on Capitol Hill last week on the Coalition's [Appropriations Priorities for Fiscal Year 2017](#). The briefing was attended by a number of congressional staff and stakeholder organization representatives. The event featured presentations by:

Kevin Kampschroer, GSA Chief Sustainability Officer and Senior Climate Change Adaptation Official, Federal Director, Office of Federal High-Performance Green Buildings
John Poulard, Vice President, Government Affairs and Solutions, Philips
Christopher Lindsay, Manager, Government Relations, The IAPMO Group

The High Performance Building Coalition is a coalition of approximately 200 organizations and companies that provides guidance and support to the High Performance Building Caucus of the US House of Representatives. Additional information on the Coalition is available at www.hpbccc.org.

Final Determination on Portable Air Conditioners Issued by DOE

DOE has issued a final determination classifying portable air conditioners (ACs) as a covered product under the Energy Policy and Conservation Act (EPCA), as amended. DOE has determined that classifying portable ACs as a covered product is necessary or appropriate to carry out the purposes of EPCA (which include conserving energy and improving the energy efficiency of major appliances and certain other commercial products), and that average US household energy use by AC is likely to exceed 100 kWh per year. As a result, portable ACs will now be subject to energy conservation standards. The rule goes into effect on May 18, 2016.

State of New York Issues Notice of Permanent Rulemaking on Legionella

After months of operating under an emergency rule on Legionella, the State of New York (in the New York Register published April 20, 2016) has given notice of permanent rulemaking, “Protection Against Legionella.” The proposed rule can be found starting on page 3 through page 5 of the Register at the link below:

<https://www.billtrack50.com/RegulationDetail/1002951/1065>

ASHRAE Standard 188-2015 is mentioned by name though it does not adopt the Standard by reference. Additionally, no public hearing is scheduled at this time. The new rule is scheduled for adoption 45 days from the date of publication of this register (which is on or about June 4).

Charlie J. Lesniak, P.E.
Grassroots Government Activities Chair

History

Brief History of ASHRAE 90.1

Standard 90-1975

Development of Standard 90 began in the aftermath of the energy crisis of 1973. ASHRAE president Robert R. Kirkwood made the ASHRAE theme of 1973 "Optimum Energy Utilization Through Technology". At ASHRAE's winter meeting in Los Angeles in February 1974, the National Bureau of Standards (NBS) presented their early developments of a building energy standard to 200 ASHRAE meeting participants. NBS and the National Conference of States on Building Codes and Standards (NCSBCS) offered to turn development of the standard over to ASHRAE, and ASHRAE accepted.



The development of the proposed standard, Standard 90P, was completed in less than six months. ASHRAE enlisted representatives from the American Institute of Architects (AIA), Illuminating Engineering Society (IES), Mechanical Contractors Association of America (MCAA), Air Conditioning and Refrigeration Institute (ARI), and the Electrical Energy Association (EEA). A draft of the standard was issued on June 21, 1974 to 5,000 industry stakeholders for public review. Comments were received, revisions were made, and the initial version was issued as ASHRAE Standard 90-1975 on January 14, 1975.

2004

In 2004 the ASHRAE 90.1 standard applied to buildings, the building envelope, and majority of mechanical and lighting systems in the building. New buildings being constructed and the systems that run the new buildings would be covered by the standard. The standard would also apply to additions to existing buildings and their systems as well as alterations to an existing buildings system. For ASHRAE 90.1 standard to apply to the building envelope the building will need to be heated by a heating system that has an output capacity greater than 3.4 btu/h-ft² or be cooled by a cooling system that has an output capacity greater than 5 btu/h-ft². The buildings that are exempted from ASHRAE 90.1 are single family homes, multifamily of three stories or less homes, manufactured or modular homes, buildings that do not use electricity or fossil fuels, and equipment and building systems that are used for industrial, manufacturing, or commercial purposes.

2007

In 2007 the updated version of the ASHRAE 90.1 covers many sections of a building which include building envelope, HVAC, hot water, and lighting.

The building envelope has to be categorized into 3 different categories of conditioned space which are (a) nonresidential conditioned space, (b) residential conditioned space, and (c) semiheated space. Each one has different requirements to meet. There are also mandatory provisions that building envelopes have to abide by which are insulation, fenestration and doors, and air leakage. The requirements for these provisions are in the ASHRAE 90.1 manual and have many requirements for each. Each section of the building envelope, Roof, Walls, and Floor have different requirements for each of the mandatory provisions.

The HVAC system has many different requirements that have to be met. This is because there are many types of HVAC systems each with different requirements. The HVAC section has the most requirements because there are so many different types of systems. There are systems that cannot be used and things that systems must have to meet the requirements. ASHRAE 90.1 document has multiple tables that give minimum efficiency requirements for each system.

Hot water systems must go through a load calculation before they are installed. Each system must meet the manufactures sizing guidelines. Each system must also have equipment that meets the minimum efficiency that is in a table in the ASHRAE 90.1 document. The pipes that hold the hot water need to be insulated and there are certain insulation requirements for each system type and piping material. There are many controls that hot water systems need and each control has a different requirement. These include are temperature controls, temperature maintenance controls, outlet temperature controls, and circulation pump controls. There are also requirements for pool heaters, pool covers, and heat traps for heated pools.

History (Cont'd. from Page 12)

If new lights are installed or replaced in any building space, with a few exceptions, they must abide by the Lighting Power Density requirements. Lighting also has many requirements to follow, which includes the prescriptive requirements to determine the quantity of lights for the building. There are also interior lighting controls that need to be installed for buildings larger than 5000 sqft. There are also many requirements on lighting that include exit signs and exterior lights.

2010

In the 2010 edition of ASHRAE 90.1, many changes were made, including definitions, tables, and sections. Energy savings compared to 90.1-2004 were approximately 25 percent including plug loads and approximately 31 percent excluding plug loads. DOE issued a positive determination and notified states that they should adopt 90.1-2010 or a code that DOE accepts as equivalent by October, 2013.

The scope was expanded to include defined industrial processes, which in the 2010 edition includes only economizers for data centers. Changes to Building Envelope include skylights, solar reflectance, thermal emittance, air barriers, and solar orientation.

Minimum efficiency requirements for many types of HVAC equipment were revised. Other revisions affect the maximum fan power limits, pump head calculation, chilled water pipe sizing, radiant panel insulation, single-zone VAV, and supply air temperature reset. Energy recovery is required for many more HVAC systems. Several reheat exceptions were eliminated or modified. Restrictions were placed on overhead air heating. Economizer requirements were added for more climate zones and smaller systems. Class A is now required for all duct sealing.

Lighting power densities (LPD) dropped slightly on average. Daylighting and associated lighting control requirements were added. Many lighting control requirements were added, including independent functional testing of lighting controls, occupancy and vacancy controls, exterior lighting controls, and whole-building shutoff. Offices and computer classrooms now require 50 percent of 120V receptacles to be automatically switched. Requirements were added for service water booster pumps and elevators.

James Hanna
History Chairman

Young Engineers in ASHRAE (YEA)

The cooling season is here, the summer is fast approaching and the hot and humid weather is just starting as well as the grilling. The Long Island chapter meeting on June 14th, 2016. The local chapter meeting is always a great way to learn about what being a member of ASHRAE has to offer and a great place to meet other people in the industry.

Great for the recent college graduates is ASHRAE's SmartStart Program:

Simply put, it's the best way for ASHRAE student members to receive the many benefits of Associate grade membership after finishing college. SmartStart is a 3-year program that allows Student members to transfer to Associate grade membership at a rate that is recent-graduate friendly.

We will be looking for more ideas for social events so please contact me if you have suggestions.

Be sure to connect with Young Engineers in ASHRAE.

Frank Paradiso
YEA Chairman



ASHRAE: Lowest Rates Available for Annual Conference



Register today for the ASHRAE Conference in St. Louis. Take advantage of the opportunity to discuss and examine the latest topics in the building industry and earn professional development credits. Hotels are filling up quickly!

[Register before rates increase on April 27. You can register at \[www.ashrae.org/stlouis\]\(http://www.ashrae.org/stlouis\).](http://www.ashrae.org/stlouis)

The technical sessions offer an excellent opportunity to learn the results of cutting-edge research and the latest standards that affect the built environment. Topics include nearly every technology used in HVAC&R including alternative refrigerants, fire and smoke control, smart control systems and sources and efficient utilization of renewable energy. In addition, learn the personal and business skills necessary to become and remain a leader in our industry.

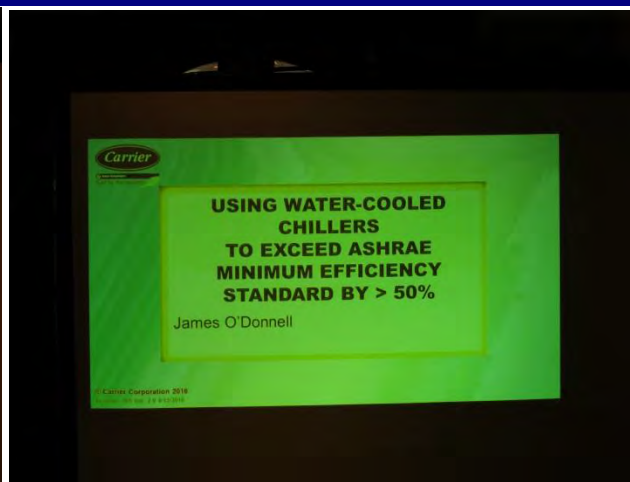
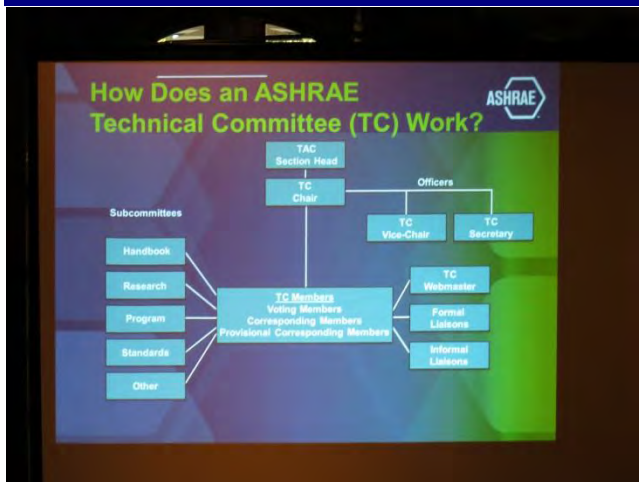
The Technical Program features eight tracks, 108 sessions and more than 400 speakers. The program offers over 130 Professional Development Hours, as well as Continuing Education Units, which can be applied toward a Professional Engineering license, including the state of Florida, AIA LUs and LEED AP credits. Check out the new interactive Technical Program to find the topics, sessions and speakers of most interest to you! Featuring options to search by track, program type, date and keyword, the interactive Technical Program provides a detailed look at each session from color-coded tracks to sponsoring committees. Access, browse and bookmark the feature on your computer, tablet or smartphone.

[The interactive Technical Program is available at \[www.ashrae.org/stlouisinteractivetechprogram\]\(http://www.ashrae.org/stlouisinteractivetechprogram\).](http://www.ashrae.org/stlouisinteractivetechprogram)

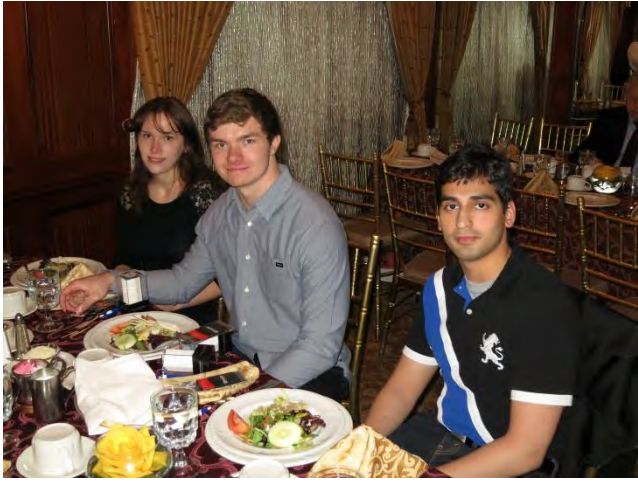
Technical Program	
Browse/Search	2016 ASHRAE Annual Conference: Tracks
Browse by Day	ADVANCES IN REFRIGERATION SYSTEMS AND ALTERNATIVE REFRIGERANTS
Browse by Program	FUNDAMENTALS AND APPLICATIONS
Track Index	HVAC SYSTEMS AND EQUIPMENT
Presenter Index	INDOOR ENVIRONMENT: HEALTH, COMFORT, PRODUCTIVITY
	PROFESSIONAL SKILLS BEYOND ENGINEERING
	RENEWABLE ENERGY SYSTEMS AND NET ZERO BUILDINGS
	RESEARCH SUMMIT
	SMART BUILDING SYSTEMS/REMOTE MONITORING AND DIAGNOSTICS

Can't attend the Conference but want to tap into the technology? [Check out the Virtual Conference option for the 2016 Annual Conference as well as previous ones.](#)

May Chapter Meeting Pictures



May Chapter Meeting Pictures



Golf Outing Pictures

Thank you to our sponsors!



Golf Outing Pictures

Thank you to our sponsors!



HOLE SPONSORS WHOSE SIGNS
WERE CAMERA SHY...THANKS TO ALL!

APPLIED TECHNOLOGIES, INC.
COUNTY FAIR AIR CONDITIONING
GIL-BAR INDUSTRIES
MG ENGINEERING D.P.C.

Golf Outing Pictures



ASHRAE is seeking papers for its 2017 Winter Conference in Las Vegas



Shaping Tomorrow's
Built Environment Today

ASHRAE is seeking papers for its 2017 Winter Conference in Las Vegas, Nev., Jan. 28-Feb. 1, 2017.

To submit a Conference paper abstract or a technical paper and for more information about the conference, visit www.ashrae.org/lasvegas.

"Today's HVAC&R profession is facing challenges unlike those from the past," Leon Shapiro, Conference chair, said. "The rapidity with which technology advances the modeling, design, equipment, systems, construction and operation of the buildings we deal with, along with the speed with which climate change is significantly altering the conditions around which we design, are creating problems for today's ASHRAE members. The conference seeks to address those problems."

The conference seeks papers on new tracks addressing design issues that are challenging the entire industry.

- The Water-Energy Nexus track highlights research in the relationship between water usage and energy systems. It also explores technologies and designs intended to reduce the gap between energy and water efficiency.
- The Advances in Mission Critical Design and Operation track highlights developments in mission critical facilities and the challenges of meeting increasing load demands while minimizing the impact on energy and water usage.
- The Climate Change and Its Effects on HVAC&R Design and Technologies track focuses on methods to increase building resiliency and facilitate climate adaptation.
- Energy Efficient Industrial Buildings and Life Safety spotlights energy efficiency in industrial buildings and how it can be achieved without compromising life safety considerations.

The conference also seeks papers on Fundamentals and Applications, HVAC&R Systems and Equipment, Commercial and Industrial IAQ and Building Operation and Performance: Meeting the Modeling Expectations.

ASHRAE offers two types of paper submissions:

Conference Papers: Abstracts due March 14, 2016. Upon acceptance, papers will be due July 6, 2016. These "final" papers undergo a single-blind review, are submitted as a PDF and have an eight single-spaced page maximum length.

Full Technical Papers, which are due April 18, 2016. Papers submitted for review must be both technically accurate and clearly written. These papers undergo a rigorous double-blind review and can be a maximum of 30 double-spaced pages.

www.ashrae.org/lasvegas

ASHRAE Fishing Trip Pictures



ASHRAE Fishing Trip Pictures



Join ASHRAE on Social Media!



Shaping Tomorrow's
Built Environment Today

Join ASHRAE on social media!

See the latest in Society news, chapter activity, and industry highlights. Search #MyASHRAE on Twitter and Facebook to see member photos from around the world.



Like us on [Facebook](#)



Follow our company page on [LinkedIn](#)



Follow us on [Twitter](#)



Subscribe to our [YouTube](#) channel



Join the discussion on [ASHRAExCHANGESM](#)

Thank you for your support, and don't forget to look for your local ASHRAE chapter on Facebook, Twitter, and LinkedIn.

Thank you,
ASHRAE Marketing

PS: Did you know ASHRAE now has over 55,000 members? Thank you for helping to spread the word about ASHRAE! Questions? Email marketing@ashrae.org

\$\$\$ SAVE MONEY \$\$\$

ASHRAE-LI is now offering Ticket Books for our Monthly Meeting/Dinner presentations. \$450 for a book of Eleven (that's right....eleven, one better than ten) tickets for the price of ten member admissions. Tickets are valid until December of 2017 and may be used by members and non-members. For those of you who attend all or most of our meetings and for organizations who normally send large groups to the meetings, this is a great way to save a few dollars and speed up the entry process. For more information and/or to purchase ticket books, please contact Don Kane at cttc@ashraeli.org or call 631-574-4870.



ASHRAE CERTIFICATIONS



Dear ASHRAE Member,

Take advantage of current, low certification application fees through June 30. After staying the same for nine years, fees will increase beginning July 1. After you apply, you have three months to schedule and sit for your exam - so why wait?! [Learn More.](#)

Also, per a recently adopted policy, non-native English speakers are now eligible to receive an additional 30 minutes of testing time. When applying, if you are a non-native English speaker, simply choose this option on the application.

If you'd like to learn more about the value of ASHRAE's six certifications, check out what Cara Martin, BEMP, and other ASHRAE certificants have to say.



Looking forward to receiving your application!

Sincerely,

Erin Dupree
Certification Coordinator
Tel: 678-539-1113

ADVERTISEMENTS



PLACE YOUR AD HERE

**OR
HERE**

**OR
HERE**

**OR
HERE**

**OR
HERE**

AN AD OR BUSINESS CARD LISTING IS A GREAT WAY TO GET YOUR COMPANY'S NAME IN FRONT OF THE HUNDREDS OF LI CHAPTER MEMEBERS, AND TO HELP SUPPORT THE CHAPTER'S ACTIVITIES.

If you would like to place an advertisement in the Long Island Sounder, please contact our Chapter Financial Secretary, Don Kane, PE @ 631-574-4870 or by email at finsec@ashraeli.org for further details. Thank you.

Rates (includes all issues September-June):

Business Card \$200
Triple Size \$350

Half Page \$500
Full Page \$800

ADVERTISEMENTS

**PLACE YOUR
AD HERE**

GIL-BAR INDUSTRIES

MATT ROMANELLI
E-MAIL: MRDMANELLIGIL-BAR.COM

NEW YORK OFFICE
5 WEST 19TH STREET
NEW YORK, NY 10011
TEL: (212) 331-8272
FAX: (212) 331-8273

LONG ISLAND OFFICE
25 NEWBRIDGE ROAD
HICKSVILLE, NY 11801
TEL: (516) 216-4310
FAX: (516) 869-4042

 **Ultimate Power Inc.**

631-491-1300 x16
FAX 631-491-8551

INDUSTRIAL BURNERS • BOILERS
GAS • OIL • BURNER SERVICE • A/C & INSTALLATION
NATIONAL BOARD CERTIFIED "R" STAMP REPAIR CO.
DDC CONTROL SYSTEMS
MECHANICAL CONTRACTORS FOR OVER 36 YEARS

RONALD MILANO
45 NANCY STREET
WEST BABYLON, NY 11704-1498
EMAIL: RMILANO@ULTIMATE-POWER.COM

Leonard Van Sicklin
President

ANRON
Mechanical Services Inc.

• HEATING & AIR CONDITIONING •
• SHEET METAL • SERVICE •

440 Wyandanch Avenue
North Babylon, NY 11704
lv@anronac.com
www.anronac.com

Phone: 631-643-3433
Fax: 631-491-6983
Cell: 631-860-4349

JAR

J. A. Robertson, PE
Mechanical Engineer
HVAC/Plumbing System Design

P.O. Box 4982
Richmond, Virginia 23220
jar4d@alumni.virginia.edu
Licensed: DC/MD/VA

Frank D. Morgigno - President/CEO fm@atlofny.com

ATI Applied Technologies Of NY, Inc.
Manufacturers Representatives

90 Plant Ave. • Ste. 310 • Hauppauge, NY 11788
Tel: 631-331-0215 • Fax: 631-928-4625
www.atlofny.com

CEC

Kevin Cirincione
President

COUNTY ENERGY CONTROLS, INC.
County Pneumatic Controls, LLC
Energy Management Systems

429 Montauk Hwy - POB 780
East Quogue NY 11942
www.countyenergycontrol.com

p: (631) 653-9124
f: (631) 653-9177
e: kevin@countyenergycontrol.com

BERNE & BOB LEVENTHAL, INC.

Manufacturer's Rep. for Governair Corp.

NEW YORK CITY, LONG ISLAND, & WESTCHESTER

GOVERNIAIR CORP.

Roof Top Penthouses to 400,000 CFM

Custom DX Systems to 500 Tons

(Air - Water - Evap Cooled)

Complete engineered systems designed and built for specific
job requirements and complying with the latest NYC Sound code.
Replacements for existing Governair units.

BOB LEVENTHAL

TEL (516) 826-5270

FAX (516) 826-5221

BLEVENTHALHVAC@OPTIMUM.NET**TWO TERRY LANE, WANTAGH, NEW YORK 11793**

Right People. Right Results.™

 **CUSTOM COMPUTER SPECIALISTS, INC.**

Michael J. Lazzarillo
Senior Manager

Data Center Assessment and Design

Direct: (631) 650-1203
Cell: (631) 791-5490
mlazzarillo@customonline.com
www.customonline.com

70 Suffolk Court, Hauppauge, NY 11788

SIEMENS

Industry

Siemens Industry, Inc.
Building Technologies Division

50 Orville Drive
Bohemia, NY 11716
USA

Tel: +1 631 218-1000 Ext. 214
Fax: +1 631 218-1009
Mobile: +1 516 924-2913
vincent.catalano@siemens.com
us.siemens.com/buildingtechnologies

Vincent Catalano, C.E.M.
Account Manager

TEL (631) 218-8022
FAX (631) 218-8023

BCC

BEST CLIMATE CONTROL CORP.
75 ORVILLE DRIVE
BOHEMIA, NY 11716

AIR CONDITIONING
SYSTEMS

MICHAEL O'DOURKE

Established 1959

County Fair Air Conditioning Corporation

233 GRAND BLVD - WESTBURY, NY 11590-3598
(516) 997-6666 • (718) 347-7808 • FAX (516) 997-5741
choigerson@countyfair.com • mnathan@countyfair.com

CARL HOLGERSON **RONALD J. NATHAN**
Owner Owner

MECHANICAL CONTRACTORS • SALES • SERVICE • ENGINEERING

*ADVERTISEMENTS***Retrofit energy savings into your next building upgrade.****Start with retrofit offers from National Grid.**

If retrofitting existing commercial, institutional, and industrial facilities is an important part of your services, you know that incorporating energy efficiency measures into planned upgrades can add value to your clients' buildings and your business. We're here to help with money-saving financial incentives for lighting, HVAC/R, electric motors, retro-commissioning, and energy management system projects.

Learn more about how our retrofit offers can add value to your next upgrade project.

Call 844-280-4325 or visit myngrid.com/retrofit today.

**nationalgrid**

HERE WITH YOU. HERE FOR YOU.

ADVERTISEMENTS

EFFICIENCY IS EVERYTHING.



VRV III
THE INTELLIGENT AIR CONDITIONING SYSTEM



Daikin AC is pleased to announce the **VRV III PB** series.

This new iteration of VRV III is available in sizes ranging from 6 to 30 tons and is rated in accordance with AHRI standard 1230-2010. VRV III PB has been designed and optimized to meet or exceed the latest minimum efficiency requirements in 10 C.F.R. Part 431 as determined by the U.S. Department of Energy (DOE) and efficiencies as defined by ASHRAE 90.1-2010. With this new efficiency data, Daikin positions its VRV system as one of the most efficient heating and air conditioning systems available in the North American market as well as the efficiency leader in the VRF market.

Contact our local Daikin AC sales engineers in New York City:

- Ray Schmitt: 631-335-7116 - ray.schmitt@daikinac.com
- Steve Handelman: 917-968-9332 - steve.handelman@daikinac.com



Try a Better Perspective, try Daikin AC.

866-4DAIKIN
www.daikinac.com

DAIKIN AC
absolute comfort



**PLACE YOUR
AD HERE**

**chimney
DESIGN
solutions®**

134 W. 29TH ST., 11TH FL., NY, NY 10001
800-685-7077 FAX: 212-685-4777
chimney design solutions.com

Advertising Rates:

Business Card \$200

Triple Size \$350

Half Page \$500

Full Page \$800



Visit the **Wales-Darby Energy Learning Center** at
2910 Express Drive South
Islandia, New York 11749
631.585.6800 Comm'l FAX: 631.471.4950
e-mail us at info@walesdarby.com
visit our website at www.walesdarby.com