



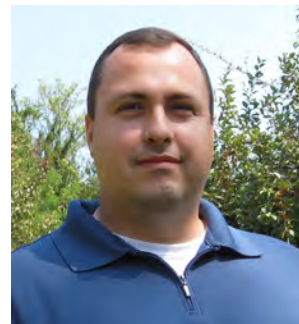
SEASON'S GREETINGS

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President's Message

Welcome to the December issue of the "Long Island Sounder". We thank all those who attended last month's joint meeting with SMACNA. We would like to thank SMACNA for their continuing support and for their generous donation. Thank you again to Jim Sadler PE, National Sales Manager of Mason Industries and his presentation on "Local Seismic Risk, Seismic Codes and Recommended Seismic Specifications." It was very enlightening and displayed the many considerations for equipment anchorage and designing for Dynamic inputs.



November's meeting was also Student and YEA night we would like to thank the students from Stony Brook University, Nassau Community and Suffolk Community for attending.

Thank you to Trane for sponsoring November's cocktail hour and the following companies; MGE and Accuspec for offering to sponsor the January and March meetings. If your company is interested in sponsoring a cocktail hour please contact Rich Rosner or myself.

This month the Long Island Chapter will be hosting the 2013 holiday party we are also fortunate to host Joseph Furman, DRC, Director and Regional Chair of ASHRAE Region 1, who will be observing our meeting and providing any useful feedback to help improve our chapter operations.

Please check out our website www.ashraeli.org and take a look at the latest programs. Rich Rosner, our Programs Chair, has scheduled beneficial topics for the chapter monthly meetings. Pencil in those dates on your calendar so you won't miss out on these great topics.

Time is moving fast and the ASHRAE winter meeting is just around the corner and in NYC. If you have the opportunity, the AHR expo is an amazing opportunity to see what's new and who is who. There are also many ASHRAE learning sessions and technical committees to check out.

I wish you all a safe and joyous holiday season and a happy and healthy new year.

Andrew Manos, LEED AP BD+C
President - Long Island Chapter

CHAPTER MONTHLY MEETING

DATE:	Tuesday, December 10, 2013 ASHRAE Holiday Party
TIME:	6:00 PM - 8:00 PM
LOCATION:	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
FEES:	
Member -	No Fee
Students-	No Fee
Non-Member-	\$40.00

Reservations requested, but not required.
Call (516) 333-7117

Long Island Chapter Officers & Committees

ASHRAE 2013/2014 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	Andrew Manos, LEED AP	631.632.2791	631.632.1473	president@ashraeli.org
President-Elect	Richard Rosner, P.E.	631.737.9170	631.737.9171	president_elect@ashraeli.org
Vice President	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	vice_president@ashraeli.org
Financial Secretary	Charles Lesniak, P.E	516.484.1020	516.484.0926	financial_secretary@ashraeli.org
Treasurer	Don Kane, P.E.	631.737.9170	631.737.9171	treasurer@ashraeli.org
Secretary	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	secretary@ashraeli.org
Board of Governors	Richard Halley	718.269.3809	718.269.3725	bog1@ashraeli.org
Board of Governors	Lee Feigenbaum, LEED AP BD+C	212.243.2555		bog2@ashraeli.org
Board of Governors	Brian Simkins, LEED AP	203.261.8100	203.261.1981	bog3@ashraeli.org

ASHRAE 2013/2014 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	Richard Rosner, P.E.	631.737.9170	631.737.9171	programs@ashraeli.org
Membership	Lee Feigenbaum, LEED AP BD+C	212.243.2555		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	516.484.1020	516.484.0926	ggac@ashraeli.org
Newsletter Editor	Liset Cordero	212.643.9055	212.643.0503	editor@ashraeli.org
Research Promotion	Richard Rosner, P.E.	631.737.9170	631.737.9171	rp@ashraeli.org
Historian	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	historian@ashraeli.org
Student Activities	Richard Halley	718.269.3809	718.269.3725	sa@ashraeli.org
Young Engineers in Training	Lee Feigenbaum	212.243.2555		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	Frank Paradiso Ken Mueller	631.632.2791 201.395.3761	631.632.1473 763.231.6924	reception@ashraeli.org
PR & Engineering Joint Council of LI	Andrew Manos, LEED AP	631.632.2791	631.632.1473	pr@ashraeli.org
Golf Outing	Peter Gerazounis, P.E., LEED AP Steven Friedman, P.E., HFDP, LEED AP	212.643.9055 212.354.5656	212.643.0503 212.354.5668	golf@ashraeli.org

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Young Engineers in ASHRAE (YEA)

Students are welcome all of the time, not just on Student Night! We love to see new faces at our monthly meetings. On our first student night of the year we were glad to welcome more than 20 new students to our chapter. We appreciate the new student memberships we received that night, and we are still happy to accept new student members.



The www.ASHRAE.org webpage makes signing up quick and easy. You are also welcome to join us at our holiday party in December where we can sign you up on the spot.

Student Membership in ASHRAE is just \$20! As aspiring HVAC professionals I can't think of anything that provides a better return on student dollar invested. For less than the cost of a few drinks you can get most of the same benefits as full paying members while building your brand as an up-and-coming HVAC professional. If you're a student in the HVAC field it just doesn't make sense NOT to come to our monthly meetings.

It was great meeting so many new people on our first Student Night, and we look forward to seeing you again. Bring a friend, and let's make EVERY meeting a Student Night!

Lee Feigenbaum
YEA Chairman

Long Island Chapter - Past Presidents

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



PAOE POINTS FOR 2013/2014

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	GGAC	Chapter PAOE Totals
296	225	505	635	225	740	400	250	2,980

Chapter Monthly Meeting - Program for 2013/2014

<p>September 10, 2013 * At Westbury Manor </p> <p>Dinner Presentation – Characteristics of Throw (Overhead Air Distribution Fundamentals) Presenter: ADE - Frank Bergamini **1 PDH**</p> <p>Membership Promotion Night</p>	<p>February 2014</p> <p>NATIONAL ENGINEERS WEEK Feb 16 through Feb 22</p>
<p>October 8, 2013 * At Westbury Manor </p> <p>Dinner Presentation—Optimizing Efficiency of Multiple Hydronic Boiler Systems Presenter: Joel Southwell **1 PDH**</p> <p>Resource Promotion Night</p> <p><i>Back to Basic Session I - Evans Lizardos **1 PDH**</i> <i>"How to Select & Specify Heating & Cooling Coils"</i></p>	<p>March 11, 2014 * At Westbury Manor</p> <p>Dinner Presentation—GeoThermal Systems – Design and Installation Considerations Presenter: Ray Schmitt and Panel **1 PDH**</p> <p>Joint meeting with LI-Geo YEA Night</p> <p><i>Back to Basic Session III – Evans Lizardos **1 PDH**</i> <i>"Design & Theory of dedicated Outside Air Systems for Humidity Control"</i></p>
<p>November 12, 2013 * At Westbury Manor </p> <p>Dinner Presentation—Seismic Design for Building Systems Presenter: Jim Sadler from Mason Industries **1 PDH**</p> <p>Joint meeting with SMACNA Student Activities Night & YEA Night as well as Membership Promotion and Upgrade Night</p>	<p>April 8, 2014 (5 PM)</p> <p>ANNUAL FIELD TRIP Long Beach Ice Skating Rink – See the refrigeration system and hear about the storm damage and recovery. **1 PDH**</p> <p>Dinner to follow at a local Restaurant with a "Sandy" story Joint meeting with RSES</p>
<p>December 10, 2013 * At Westbury Manor</p> <p>HOLIDAY PARTY Free Buffet Dinner for Members VISIT FROM DRC - Joseph Furman</p>	<p>May 5th, 2014 * Cherry Valley Club, Garden City, NY</p> <p>ANNUAL GOLF OUTING</p>
<p>January 14, 2014 * At Westbury Manor</p> <p>Dinner Presentation- Automatic Flow Balancing Presenter: John Knowles **1 PDH**</p> <p><i>Back to Basic Session II - Evans Lizardos **1 PDH**</i> <i>"Design of Variable Air Volume Systems"</i></p>	<p>May 13th, 2014 * At Westbury Manor</p> <p>Dinner Presentation—Introduction to Ammonia Refrigeration Systems Presenter: Douglas T. Reindl, Ph.D., P.E. **1 PDH**</p> <p>ASHRAE DISTINGUISHED LECTURER</p> <p>Student Activities Night Refrigeration Night</p>
<p>January 2014</p> <p>ASHRAE Winter Meeting Jan 18-22 New York Hilton 1335 Avenue of the Americas New York, NY</p>	<p>June 10, 2014 * At Westbury Manor</p> <p>Free Buffet Dinner for Members</p> <p>PAST PRESIDENTS NIGHT & OFFICER INSTALLATION STUDENT SCHOLARSHIPS TO BE AWARDED ASHRAE History Quiz and prize Give-A-Ways</p>
<p>February 11, 2014 * At Westbury Manor</p> <p>Dinner Presentation—Leed Ver 4 Rating System & ASHRAE 191P Water efficiencies in Bldgs. Presenter: Rich Gerbe **1 PDH**</p> <p>Joint Meeting with USGBC Resource Promotion Night Membership Promotion Night</p>	<p>August 2014</p> <p>Chapter Regional Conference (CRC) Region I Bi-State Chapter Hosting August 14-16, 2014</p>

Board of Governors Meeting Minutes

Attendees:

Andrew Manos (AM); Rich Rosner (RR); Charles Lesniak (CL); Don Kane (DK); Andrew Dubel (AD); Lee Feigenbaum (LF); Brian Simkins (BS); Carolyn Arote (CA)

The meeting was called to order at 5:02pm by Andrew Manos - President, at Westbury Manor.

President - Presidents PAOE points are currently at 570. The October meeting minutes were approved.

President Elect/Programs - RR noted all meetings were booked. Joe Furman will be coming to the next meeting. We are now looking for cocktail hour sponsors for the December and June meetings

Chapter Technology Transfer - CTT PAOE points are current at 400. Generally, CTTC PAOE update follows the meeting, after speaker evaluation reports are filed. Waiting for MBO and CRC PAOE points to be applied by RVC. We will assist in the preparation of the Field Trip presentation.

Treasury - As of November 12th, account balance is \$10,597.09, with \$2,446.45 in outstanding checks which have not cleared. IRS extension and change of address (to PO box) were transmitted to IRS on October 31st. 990EZ should be filed by end of November or early December. CA to lead creation of ticket book. Books will be Buy 10 get 11th ticket free. Tickets shall be numbered and expire at the end of 2015. DK will procure gift cards and gift bottle for December meeting.

Grassroots Government Activates - GGA PAOE points are current at 250.

Historian - Historian PAOE points are currently 200.

Research Promotion - Current RP sent to society is \$1,975. Total RP collected so far is 3,475. This is 995 short of 30% goal. Goal is \$14,900. High five is \$21,422. Challenge is \$22,514. 30% by Dec \$4,470. RP PAOE points are currently at 375.

Membership Promotion - MP PAOE points are currently at 225.

Student Activities - SA PAOE points are currently at 270. 16 students from Suffolk Community, 4 students from stony brook, and 4 students from Nassau Community to attend November meeting.

YEA - The 2nd annual Brooklyn Brewery outing will be scheduled for next year. The Stony Brook chapter has been meeting weekly.

Webmaster - The website has been updated. Chairs to copy relevant files onto chapters FTP site. Links to the FTP site have been sent to all of the chairs and directories have been added.

Golf - The golf outing has been confirmed for May 5th.

The next meeting will be held on December 10th at Westbury Manor.

The meeting was adjourned at 5:55pm.

Andrew B. Dubel, P.E.
Chapter Secretary

December Program

ASHRAE Long Island Chapter's 2013 Holiday Party



“Member Appreciation Night”

**Come and join us to celebrate a successful year.
We cordially invite you to a holiday cocktail party, featuring
dinner, drinks, and holiday cheer...**

DATE: Tuesday, December 10, 2013

TIME: 6:00 pm to 8:00 pm

LOC.: WESTBURY MANOR, Jericho Tpke. 25, Westbury (516) 333-7117

MENU: Hot and Cold Buffet, Coffee, Dessert and “Open Bar”

FEE: Complimentary Admission for ASHRAE Members & Students (FREE)!
Fee for Non-Members is \$40.00 per person

RSVP: By Friday, December 6, 2013 (*REQUESTED*).
Send your Name & Phone# to programs@ashraeli.org



**Hope to see you there.
RSVP today!**



*Season's Greetings and Best Wishes for the New Year
from the ASHRAE Long Island Chapter*

Research Promotion

Happy Holidays to everyone, it is the season of giving and I am hoping everyone will keep ASHRAE in mind. Our chapter is expected to raise over \$14,900 towards the overall goal of which we have already raised \$6,225. Please continue to support this worthy cause any way you can. I also look forward to gaining the support of a few new contributors this coming year. Daikin sponsored cocktails at our September meeting, ATI sponsored them at our October meeting and Trane sponsored our November meeting. MGE will sponsor the January meeting followed by Accuspec for the March meeting. This really helps keep our dinner costs down. Thanks all! Give me a call today to say you would like to sponsor a meeting.



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

Mr Frank D Morgigno Mr Raymond G Schmitt Mr John D Nally Mr Andrew E Manos Mr Andrew B Dubel Mr Donald W. Kane, PE Mr Richard L Rosner, PE Mr Ronald J Kilcarr, PE Mr Charles J. Lesniak, PE Mr Brian C Simkins	Mr Richard I Halley Mr Lee Feigenbaum Mr Thomas Fields, PE Long Island ASHRAE Chapter Mr David G Kwalbrun Mr James R Tauby, PE Mr James R Kolk Building Cooling Systems Mr Richard J Pearson, PE Albert Weiss	Dagher Engineering Venco Mr Kevin Beirne Technical Air Systems Incorporated Miller Proctor Nickolas Inc Carrier Corporation - United Technologies Rathe Associates SMACNA LI Chimney Design Solutions
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If you were at our November meeting you know it was great. Trane sponsored our cocktail hour to start us off. Not only did we enjoy the company of our friends from SMACNA LI at this joint meeting but they gave us a generous donation. Our guest speakers company president James Tauby of Mason Industries also presented us with a large check for research. Not to be topped our 50-50 brought in a huge sum and the winner Thomas Luerssen of ANRON donated his winnings back to ASHRAE LI! I can't remember a night where more donations were received, thank you all so much.

The Tax Man Cometh...Be sure to make your contribution for the 2013 tax year! With a little less than a month left in 2013, there is still time to support RP AND get your tax deduction!

CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

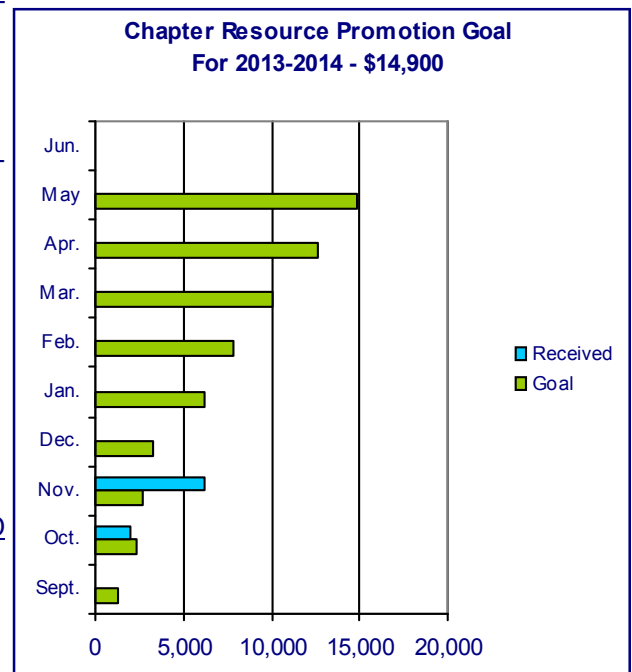
- 1) You can mail your checks, made out to ASHRAE Research Promotion, to:

Richard L. Rosner, P.E.
ASHRAE Research Promotion Chair
c/o Nassau Suffolk Engineering & Architecture, PLLC
801 Motor Pkway, Suite 103
Hauppauge, NY 11788

- 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 your support!

Richard L. Rosner, P.E.
Research Promotion Chair

CTTC - The Stockings Were Hung by the Chimney with Care..."

As we hear Clement Moore's words echoing throughout this festive time of year, one thinks that he was not thinking of the chimney as a component in a comfort heating system, but merely a convenient literary mechanism to introduce a fireplace and, thus, a mantel from which oversized caricatures of foot coverings could be hung as a receptacle for modest gifts, which epitomize the concept that it is the "thought that counts". Taking our cue from Mr. Moore, what is it that we, whose livelihood depends upon the comfort cooling/heating and refrigerating industry, would like to find in our HVAC stockings this year? A few things come to mind, in no particular order of importance.



Accurate Heat Rejection Data- Wouldn't it be nice, when sizing an HVAC system, to more accurately know the heat/cooling load for the facility...not just a ball-park figure. Perhaps even more important would be knowing if the load was anticipated to significantly change (up or down) over the life of the installation. Think of the changes in data centers, Formerly huge assemblages of computing equipment using tape drives and vacuum tubes (think UNIVAC 1105, requiring upward of 35 tons of cooling and an electrical/cooling equipment room two-thirds the size of the computer room area) which were downsized as the newer, solid state technology took hold.....until technology resulted in such compact designs that the power per unit volume again rose, requiring even more cooling capacity....to the present day where major IT installations are trying to cut down on operating expenses by using "free cooling" whenever possible, pushing the upper limits on the allowable temperatures. ASHRAE Technical Committee 9.9 issued its first version of "*Thermal Guidelines for Data Processing Environments*", in 2004 and has revised it several times since then. Some major users are opting to push the acceptable temperature limits even higher. If these increases and decreases in load could have been more accurately modeled, many facilities would have, no doubt, been designed with more modularity, to permit optimal operation, regardless of the load.

Flexible Ducting -applied correctly- We have all seen flexible ducting installed haphazardly, resulting in the ducting being bent into a pretzel, or crushed between structural members to a small percentage of its original cross-sectional area. Yet, we have also seen applications where the only way to make that final connection (whether due to geometrical constraints or the need to isolate systems due to vibration of movement) is with a flexible duct. If it is necessary, by all means use it. But take into account its limitations...do not use excessive lengths...properly support it to prevent sagging and bends...do not go below the minimum bend radius specified...determine the *actual* flow properties for a given cross section (don't just blindly apply a rule-of-thumb to determine the needed increase in duct size). Most importantly, design and install it where it will be accessible for future replacement, as it will certainly have to be replaced at some time in the future due to "collateral damage".

Commissioning ..done the right way – Most commissioning procedures call out for the involvement of the C_x agent from the get-go... from design to final testing. How many times does this actually happen? Don't rely on the C_xA to fix your problems, use their expertise to avoid problems in the first place.

Replacement of the Fuses That Didn't Open - How many times have you seen one or two of the fuses for a three phase circuit to a piece of equipment replaced, only to have the "good" fuse require replacement shortly thereafter? Even though it may not have opened, the "good" fuse was still electrically stressed and will not exhibit the same calibration. This will result in a nuisance opening further down the road.+

Roof-Top Units Not Used as Strike Termination Devices - Provide proper air terminal protection for roof-top equipment, especially in those areas with extremely high keraunic levels. Properly bond and ground all equipment and give serious consideration to optical isolation of control inputs/outputs to avoid damaging potential differences during a lightning event.

Properly Identified, Dressed and Terminated Electrical Wiring - Consider the person who has to maintain/repair the equipment once in operation. Clearly and permanently tag all wires. Terminate with appropriate crimp or insulation-displacement connectors (no wire nuts...please). If you anticipate that a particular connection will have to be disconnected for service or maintenance, use a terminal block or separable connector to facilitate that work.

CTTC - The Stockings Were Hung by the Chimney with Care..." (Cont'd. from Page 8)

Re-installation of All Covers and Access Plates - Inside or outside, if the cover was provided, put it back, it is there for a reason (and ALL of the hardware used to secure it).

Timely Replacement of Filters - Filters should be replaced either on a schedule (based upon in-service inspection to determine duration of service interval) or by means of a restriction gauge/sensor (preferred).

Proper Soldering and Brazing - Only use sufficient heat to flow the solder or brazing material. Any excess heat will only damage the piping being connected, leading to future failure, as well as damaging ancillary equipment which may be nearby.

Maintenance of Gaskets - If a cover or door was provided with a gasket, it is needed to perform its function, be it sealing against weather or preventing air egress or ingress. The best filter will not perform as intended if a bypass path is provided around it due to a missing or damaged gasket.

Proper Support of Power Conductors - Power cabling for condenser units should not be wire-tied to the nearest water pipe or electrical conduit. Provide support and mechanical protection in accordance with NFPA-70.

Clear Air Pathways for Thermostat Housings - If the openings in the thermostat housing are plugged with lint, the sensor will not be able to respond to changes in air temperature. Good housekeeping practices should be followed to regularly check and clean if necessary.

Complete Refrigerant Replacement after Electrical Fault in Compressor - Just because you can isolate a remote compressor from the system, does not mean you should leave contaminated charge in the rest of the system. Anytime there is an electrical fault in the compressor, arc products in the oil/refrigerant will result in early failure of the replacement equipment, if not flushed and replaced with clean refrigerant.

Hose Connections Properly Broken and Reconnected - For removable units, do not kink hoses when reconnecting. Do not apply torsion to copper tubing...use a wrench on each half of a connection.

Balancing Holes Properly Sealed - After traversing the duct or AHU, make sure the probe openings are sealed. Better yet, why not design the test ports into the system, with provision for "plugging". You already know where you are going to want to take the measurements.

All Duct Connections Properly Sealed - Mastic, clamps and gaskets but no duct tape!

Proper Material Used for Condensing Boiler Venting - Make sure the material used is suitable for the conditions, approved by the manufacturer of the boiler and approved by local Authority Having Jurisdiction.

Well...we've run out of stockings and mantels....but I am sure you get the idea... the "devil is in the details". While you are all making up lists of your New Year's resolutions, take a few moments to jot down the "HVAC Stocking Stuffers" that you would like to see in the following year...and make sure to make it happen.

Don Kane, P.E.
CTTC Chair
cttc@ashraeli.org

Membership

Now that the holiday season is in full swing, are you struggling to find the perfect gift for that special someone? Do you need a one-time, low cost (under \$50) gift for a professional acquaintance? Maybe you are trying to get that new college graduate or student off to the best start possible.

Give the gift of ASHRAE! New memberships start at just \$20. For new members, ASHRAE is less expensive than that ugly tie or blouse you were already considering. As a member of the ASHRAE Smart Start program, membership will remain cheaper than lesser holiday gifts that are 2-3 times the price. Give a gift that some lucky person will remember for years. Visit www.ASHRAE.org, click "Join Now," and sign that special person up. Or, if you prefer to buy yourself something nice during the holidays, go ahead and join for yourself.



ASHRAE. It's the gift that keeps on giving!

Lee Feigenbaum, LEED AP BD+C
Membership Chairman

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. During this past summer CRC 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. So for this ASHRAE season we are having at least four joint engineering meetings. We are having our joint meetings with SMACNA, USGBC, LI-Geo, RSES. And we are looking to see if other organizations would like to join us for joint meetings. We will also be sponsoring an activity for the National Engineer's Week in February.

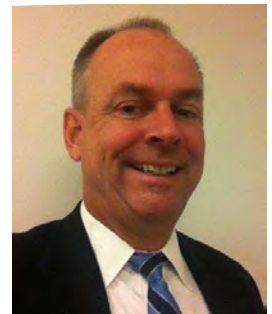


Charlie J. Lesniak, P.E.
Grassroots Government Activities Chair

Student Activities

I would like to thank all those Members who helped make our first student night of the year a success. We had over 20 students from Suffolk County and Stony Brook. The feedback I received from the students is they enjoyed the entire event but especially the time they spent talking at the tables with the membership about the industry and getting a real feel for what we all do on a day to day basis.

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



If you haven't seen it yet ASHRAE Student Zone <http://www.ashrae.org/membership--conferences/student-zone> is a great place for student to go on line and learn more about ASHREA and the multiple resources available to you, The 2014 Student Design Competition, K-12 /STEM Resource Center and much more. Students who are currently enrolled or soon to be enrolled in an engineering undergraduate degree should take a look at www.ashrae.org/scholarships. There are 13 undergraduate scholarships available ranging from 10,000 to 3,000 dollars!

If you would like more information take a look at the website or see me.

Richard Halley
Student Activities Committee Chair

History - The History of Heating Homes in America

Wood was first used for heating homes and heaters consisted of centrally located direct radiating stoves such as the cast iron Franklin Stove invented in 1742. Wood burning brick fireplaces were used when the kitchen wasn't fired up. This kept the family unit sometimes huddled in the room where the fireplace was or in the kitchen and life was easy and simple. Sometimes rocks were warmed on the stove or in an open fire and then placed in the beds to warm them up. The only temperature control was to open or close the air vents on the fire to enrich it with air or to let it starve, or by the amount of wood you stoked in it. Additional control was had by opening and closing the windows.



Around 1885 the nation first saw coal take over as the main fuel to heat homes. At first it was used in the stoves in the same method as wood but it was so efficient it would last for hours with no tending or adjustments being made. I am sure people thought 'what could beat this.' At about the same time, in 1885, Dave Lennox built and marketed the industry's first riveted-steel coal furnace.

From around 1850 to the end of the century the invention of low cost cast iron radiators brought central heating to America's homes with coal fired boilers in the basement delivering hot water or steam to radiators in every room. Without electricity and fans to move air, early furnaces transported heat by natural convection (warm heated air rising) through ducts from the basement furnace to the rooms above. These two methods would dominate home central heating until 1935, when the introduction of the first forced air furnace using coal as a heat source used the power of an electric fan to distribute the heated air through ductwork within the home. Controlling these heating plant miracles wasn't much worried about because just the delivery of heat to each room in the house was wonderful enough alone.

Shortly thereafter 1935, gas and oil fired versions of forced air furnaces relieved homeowners from the chore of "stoking the coal fire" and relegated coal furnaces and cast iron radiators to the dust bin of history. As the equipment evolved the control of it became possible and practical. Full automatic operation wasn't popular until the 1940's-50. One of the first electric room thermostats however was invented in 1883 by Warren S. Johnson. Early technologies included mercury thermometers with electrodes inserted directly through the glass, so that when a certain (fixed) temperature was reached the contacts would be closed by the mercury. These were accurate to within a degree of temperature. I wonder if people were as finicky about having the "right" temperature for them then as they are now.

They say that today about 60% of our homes are heated with gas fired heating plants and another 25% with oil fired units. In warmer climates, a quarter of our homes are heated by units using electric "heat pumps" to supply both heating and cooling energy. Believe it or not, many industry pundits in the 1950's thought that atomic energy would make electricity too cheap to meter. Nowadays, electricity costs are rising quickly in line with other fuel sources such as natural gas (natural gas is becoming the primary fuel source for many new electrical generation facilities).

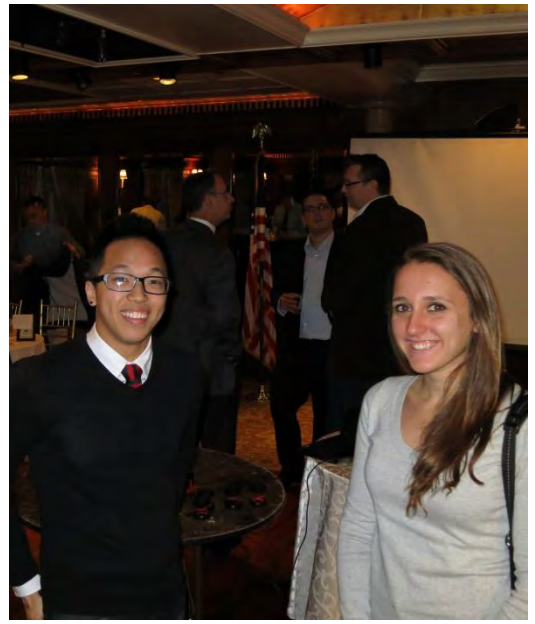
Thomas J. Fields, P.E., LEED AP
History Chair



November Chapter Meeting Photos



November Chapter Meeting Photos



ASHRAE'S Career Enhancement Curriculum Program

ASHRAE's Career Enhancement Curriculum Program



ASHRAE's new Career Enhancement Curriculum program provides an effective way for you to expand your knowledge of IAQ and Energy Savings Practices through completion of a series of select ASHRAE courses. You choose the courses that best meet your career goals. No matter your experience level, the courses offer comprehensive, up-to-date instruction from known industry experts, providing you an opportunity to gain valuable HVAC knowledge to accelerate your career growth.

You will be recognized with a certificate for successfully completing the defined series of courses for each curriculum. The knowledge you gain will enhance your journey towards a successful career.

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The IAQ Practices curriculum provides you with the necessary skills and competencies in organizing, managing and directing IAQ projects.

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The Energy Savings Practices curriculum provides you with cost-effective procedures that reduce energy consumption and help improve the energy efficiency of new and existing buildings.

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Select Your Career Path

ASHRAE EXCHANGE



ASHRAExCHANGESM is an online discussion board intended for real-time discussion and information exchange for design, construction, operation and support of the built environment. It is THE place to post and generate discussion on topics related to ASHRAE and HVAC&R.

Use ASHRAExCHANGESM to:

- exchange information with your peers
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- stay up-to-date in a fast-paced industry

Anyone can view the discussions.

Free registration is required to post to the discussions.

Once registered, you can easily sign up for daily or weekly email updates on the boards that interest you most.

The online platform is simple, quick, and free.

Join or start a discussion at ASHRAExCHANGESM

Get information on existing topics like the ones below, or start your own thread:

Topical Discussions		Last Post
	Indoor Air Quality	Health Care Facilities - 100% OA or Recirculation ... -
	Data Centers	Watts per Square foot - what is it really?! -
	ASHRAE Strategic Plan	ASHRAE Strategic Plan -
	General ASHRAE Discussion	ASHRAE and the Residential Market

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Welcome to New York!

Come join us in New York City for the 2014 ASHRAE Winter Conference, Jan. 18–22, and the AHR Expo, Jan. 21–23!

The ASHRAE Host Committee has planned exciting technical tours at some of the most famous skyscrapers along with fun-filled general tours of the city. You will be welcomed with a reception in a private space at the Rockefeller Center with a view of the famed ice skating rink. Of course, there are the stunning shows on and off Broadway, shopping in the chic areas of SoHo and 5th Avenue, amazing food from all cultures and acclaimed museums. You can spend time soaking in the energy of the city while strolling along the streets in the glittering winter lights.

Come visit your favorite cafes and enjoy a nice evening with a show at the Lincoln Center or Carnegie Hall. After a full day of stimulating technical conferences and visiting the Expo, the entertainment possibilities are limitless. We look forward to welcoming you to our city so register today and make sure you get a spot on the tours before they're gone. Register today at www.ashrae.org/newyork.

Jin Jin Huang
ASHRAE New York City Host Committee chair

We look forward to seeing you in New York.
If you have any questions, please contact us at meetings@ashrae.org.

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For information about sponsoring the 2014 Winter Conference, contact Greg Martin at gmartin@ashrae.org.

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\$159 (ASHRAE Member: \$119)

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3 Ways to Register

1. Internet: www.ashrae.org/newyorkcourses
2. Phone: call toll-free at
1-800-527-4723 (US and Canada)
or 404-636-8400 (worldwide)
3. On-site: New York Hilton or Javits Center

(Online registration will close at midnight before the start of each seminar and course. After that, please register onsite at the ASHRAE registration booth at the New York Hilton or Javits Center.)

**FOR MORE INFORMATION – GO TO THE ASHRAE LI WEBSITE – UNDER
“ASHRAE 2014 WINTER CONFERENCE”,
FOLLOW THE LINK TO ASHRAE LEARNING INSTITUTE**

ASHRAE Winter Meeting 2014



Earn an ASHRAE certification while attending ASHRAE's Winter Conference and AHR Expo

ASHRAE has certified more than 1,600 HVAC professionals.
Are you eligible to join this elite group?

The 2014 ASHRAE Winter Conference and AHR Expo in New York City will bring together more than 30,000 visitors from around the world. All six of ASHRAE's certification exams will be administered at the conference and show on **January 23, 2014**.

- [Building Energy Assessment Professional \(BEAP\)](#)
- [Building Energy Modeling Professional \(BEMP\)](#)
- [Commissioning Process Management Professional \(CPMP\)](#)
- [Healthcare Facility Design Professional \(HFDP\)](#)
- [High-Performance Building Design Professional \(HBDP\)](#)
- [Operations & Performance Management Professional \(OPMP\)](#)

To participate in this exam administration, applications must be submitted by **January 3, 2014** for the program in which you're interested. There will be no on-site registration and seating is limited. For eligibility requirements and applications, go to www.ashrae.org/NYCExams.

An ASHRAE certification is a distinct honor held by top professionals in HVAC&R and allied fields and is recognized as a standard of excellence worldwide. Take advantage of the opportunity to earn an ASHRAE certification while you're attending ASHRAE's Winter Conference and AHR Expo.

There are several opportunities available to help focus study efforts leading up to the exams:

- [Fall online courses](#)
- [E-learning courses](#)
- [CPMP Practice Exam](#)

ASHRAE Winter Meeting 2014**NEW YORK CITY**

ASHRAE ANNUAL MEETING 2014

REGION I DINNER

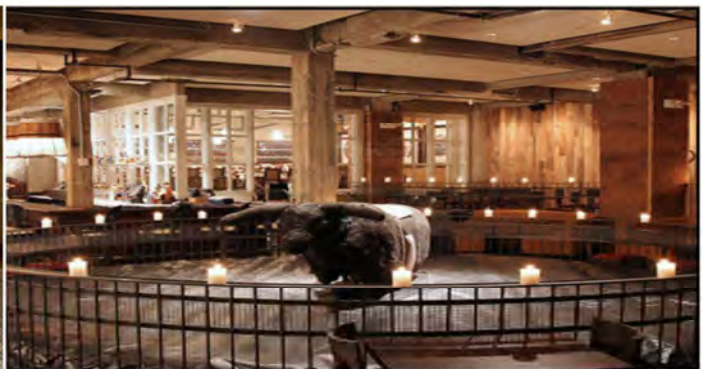
MONDAY, JANUARY 20TH, 2014 - DINNER: 7PM



New York City is not only home of this year's Winter Conference, and the sports capital of the world, it's hosting Region 1 Dinner time! Please join the members of Region I for an evening of dining in the Big Apple.

Johnny Utah's, home of Manhattan's original mechanical bull, has redefined the urban cowboy experience. The restaurant boasts an authentic Southwestern menu and impressive cocktail list.

Each attendee will order from the prefix menu and will be responsible for their own check...dinner price will be \$40 plus Tax and Gratuity. All cocktails extra.



Dinner selections include Marinated Chicken, Steak, or fresh jumbo shrimp Fajitas, and Slow Cooked Baby Back Ribs ...also featured are the Appetizers of Chicken Wings, and Sliders that may be your new savory favorite. For sides Mac n' Cheese or French Fries.

Enjoy a tasty meal and if you're up for it – the mechanical bull awaits....

RSVP: Frank Rivera Jr. by January 15th at frivera@mechheat.com



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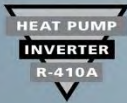
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