



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

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President's Message

Here it is, the summer is almost here and my turn at the helm of this great organization is coming to an end. Being president of ASHRAE LI has been very rewarding but I can't believe how fast it went and how little I accomplished of my goals. I couldn't have done anything without the great team backing me up and the wonderful membership. I truly thought I would have more trouble babysitting like so many people feel like they are doing when running a company. Instead many people were there to help and volunteer and make our group stronger and better. Aren't I supposed to feel burned out at this time? Nope it was all a pleasure! I hope you show Tom Fields the same support in his year, as you did for me, I will be pushing him to complete some things I wanted to do.



So what's left? Our June meeting is dynamite. It's free and there is a wonderful buffet at the Westbury Manor and we are honoring our past presidents and awarding our scholarships to the recipients. We also have a few rounds of ASHRAE LI history quiz and award a few bottles of local wines. It's just a relaxing, networking, and enjoyable night with good food, drinks and being with friends. If your friends with a past president call them to make sure they are coming and offer them a ride if they are thinking twice about it. We will be swearing in the new board and new President so please come down and show them your support.

Are you signed up for this year's Golf Outing don't forget the date changed, it's Monday June 15th, we are still taking signups as the date change confused some people. The fishing trip is June 19th and you can still sign up for that good time. Thanks to our sponsors Accuspec, ADE, Gil-Bar and Trane we will all have an extra good trip. Go ahead and mark ASHRAE on your calendar for that week of June 15th!

As always, I wish to thank all the volunteers and board members, I appreciate all your time and dedication to our chapter and community. We look forward to seeing everyone at the year end June Meeting and thank you for your continued support of the Long Island Chapter of ASHRAE.

Richard L. Rosner, P.E.
President - Long Island Chapter

CHAPTER MONTHLY MEETING

DATE:	Tuesday, June 9, 2015
TIME:	6:00 PM - Cocktails 7:00 PM - Buffet Dinner
LOCATION:	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
FEES:	
Members -	FREE FOR MEMBERS
Guest -	\$45
Student -	\$15

Reservations requested, but not required.

Call (516) 333-7117

Long Island Chapter Officers & Committees

ASHRAE 2014/2015 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	Richard Rosner, P.E.	631.737.9170	631.737.9171	president@ashraeli.org
President-Elect	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	president_elect@ashraeli.org
Vice President	Charles Lesniak, P.E.	516.484.1020	516.484.0926	vice_president@ashraeli.org
Financial Secretary	Don Kane, P.E.	631.737.9170	631.737.9171	finsec@ashraeli.org
Treasurer	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	treasurer@ashraeli.org
Secretary	Richard Halley	718.269.3809	718.269.3725	secretary@ashraeli.org
Board of Governors	Lee Feigenbaum, LEED AP BD+C	212.243.2555	212.924.7148	bog1@ashraeli.org
Board of Governors	Frank Paradiso	631.632.2791	631.632.1473	bog2@ashraeli.org
Board of Governors	Ken Mueller	201.395.3761	763.231.6924	bog3@ashraeli.org
Board of Governors	Andrew Manos, LEED AP	631.632.2791	631.632.1473	bog4@ashraeli.org

ASHRAE 2014/2015 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	programs@ashraeli.org
Membership	Lee Feigenbaum, LEED AP BD+C	212.243.2555	212.924.7148	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	Andrew Manos, LEED AP	631.632.2791	631.632.1473	rp@ashraeli.org
Historian	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	historian@ashraeli.org
Student Activities	Richard Halley	718.269.3809	718.269.3725	sa@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	James Hanna Ken Mueller	718.269.3768 201.395.3761	718.269.3794 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
2014 CRC Committee	Richard Halley	718.269.3809	718.269.3725	CRC@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

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

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BOG Meeting Minutes

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

Tuesday May 13th, 2015

5:00-6:00PM

Westbury Manor, Westbury, NY

(PAOE Min/PAR/Current/High Last Year)

Call to Order

Call to order at 5:14pm by President Elect Thomas Fields

First Role showed 7 BOG members:

Thomas Fields, Don Kane, Andy Manos, Frank Paradiso, Charles Lesniak, Lee Feigenbaum, Rich Halley

Secretary (Rich Halley)

Meeting Minutes – Minutes April 2015, Motion to Approve By Andy Manos 2nd by Lee Feigenbaum and Passed

President (Richard Rosner)

PAOE 400/1000/1745/3765

Rich is away on Business and Tom Fields gave his report

He wanted to make sure that all BOG get there points updated in the system. We reviewed the PAOE charts and it was noted that the last day to update is June 15th 2015

President-Elect/Programs (Thomas Fields)

Trane will Sponsor the June cocktail hour introducing their new “Building Advantage” Brand

Charles Lesniak – will be responsible for buying the “Trivia” gifts for the June meeting

Chapter Technology Transfer (Don Kane)

PAOE 450/1050/1355/3765 – PAOE

Satellite Webcast was a success

Treasurer (Andrew Dubel)

Balance in the General fund as of the start of the meeting was \$5374.71 Balance in the CRC fund is \$2,500

Newsletter invoicing is out, Andy Manos turning over \$1,800 for Vendor Book and Newsletter payments

Closing Balance in the General fund was \$7,174.71 and CRC remained at \$2,500.00

Grassroots Government Activities (Charles Lesniak)

PAOE 500/650/425/1150 – PAOE Updated now at 1125. Charley is still waiting for RVC points to be added

Charley still needs representatives to make the Wounded Warrior Donation presentation.

Historian (Andrew Dubel)

PAOE 100/450/175/600

Questions for the June meeting are being worked on Charley is taking care of buying the trivia prizes

Honors and Awards Chair (Brian)

Brian is working on the Star Award Nominations to Submit this year

BOG Meeting Minutes (Cont'd. from Page 3)

Research Promotion (Andy Manos)

PAOE - 800/1050/**1945/2964**

Vendor Book complete – Andy has \$1,800 in collections for the vendor book and past Newsletter advertising to be turned over

Membership Promotion (Lee Feigenbaum)

PAOE - 500/800/**655/1260**

Currently we have 280 Members with 16 delinquencies Student Membership is at 84

Student Activities (Richard Halley)

PAOE 300/500/**1945/1902** need to do final update waiting on RVC to add points, Dead line is June 15th

The slates of 2015 Scholarships Application were submitted for review and action.

After much discussion and debate the BOG agreed on the following;

- Philip Foo - \$1,000.00
- Ben Riordan - \$500.00
- Derek Sinagra - \$500.00

YEA (Frank Paradiso)

No report

Web Master (Richard Rosner)

Updating the page we need new articles from chairs.

CRC 2017 (Richard Halley)

Reviewing Bids from Hotels – Contacting National for Standard Contract to send to winning Hotel

Golf (Steven Friedman, Peter Gerazounis)

June 15th, 2015 Cherry Valley

Old Business

Voting results counted, All positions approved

New Business






Newsletter articles due two weeks before next meeting or after last meeting
BOG going to the CRC, make sure you register

Time/Place of next BOG Meeting – June 9th, 2015. Westbury Manor

Motion to Adjourn

At 5:59pm

Chapter Monthly Meeting - Program for 2014/2015

<p>September 9, 2014 * At Westbury Manor </p> <p>Dinner Presentation – New Advances in High Efficiency Cooling for Data Centers Presenter - Dave Smith **1 PDH**</p> <p>Membership Promotion Night</p>	<p>February 2015 </p> <p>NATIONAL ENGINEERS WEEK</p> <p>Engineers Seminar Series February 12, 2015</p>
<p>October 14, 2014 * At Westbury Manor </p> <p>Dinner Presentation – Variable Frequency Drives and Motor Considerations Presenter - Gail O'Keefe **1 PDH**</p> <p>Back to Basic Session I - Evans Lizardos **1 PDH** "Smoke Purge System Design"</p>	<p>March 10, 2015 * At Westbury Manor </p> <p>Dinner Presentation – Plate/Frames Presenter - Chris Abbot **1 PDH**</p> <p>Joint meeting with LI-Geo / YEA Night</p>
<p>November 11, 2014 * At Westbury Manor </p> <p>Dinner Presentation – HVAC Air Distribution System Efficiency Presenter - Eli Howard **1 PDH**</p> <p>Resource Promotion Night Joint meeting with SMACNA Student Activities Night & YEA Night as well as Membership Promotion and Upgrade Night</p>	<p>April 14, 2015 </p> <p>ANNUAL FIELD TRIP - John Harvard's Brew House Lake Grove, NY</p>
<p>December 9, 2014 * At Westbury Manor </p> <p>HOLIDAY PARTY Free Buffet Dinner for Members</p>	<p>May 12, 2015 * At Westbury Manor </p> <p>Dinner Presentation – Responsible Use of Refrigerants Presenter - Julian de Bullet **1 PDH**</p> <p>ASHRAE DISTINGUISHED LECTURER</p> <p>Back to Basic Session III – Evans Lizardos **1 PDH** "Energy Requirements for Different Refrigerant Systems"</p> <p>Student Activities Night / Refrigeration Night</p>
<p>January 13, 2015 * At Westbury Manor </p> <p>Dinner Presentation – "The Steam Kettle" The Generation and Control of Steam for Space Heat and Process Presenter - Paul Peck **1 PDH**</p> <p>Back to Basic Session II - Evans Lizardos **1 PDH** "Pipe Designs for Control of Temperature and Flow in Water Systems"</p>	<p>June 9, 2015 * 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>January 24-28, 2015 </p> <p>ASHRAE Winter Meeting . Palmer House Hilton, Chicago, IL</p>	<p>June 15, 2015 * Cherry Valley Club, Garden City, NY</p> <p>ANNUAL GOLF OUTING * NEW DATE* See pages 16-18</p>
<p>February 10, 2015 * At Westbury Manor </p> <p>Dinner Presentation – Air Distribution and Surgical Suites Presenter - Jack Conway **1 PDH**</p> <p>Joint Meeting with USGBC Research Promotion Night / Membership Promotion Night</p>	<p>June 19, 2015 * Dixie II @ Captree State Park</p> <p>ANNUA FISHING TRIP (3pm to 7pm) * See Page 19 for details</p> <p>August 2015</p> <p>Chapter Regional Conference (CRC) Region I Syracuse Chapter Hosting August 20-22, 2015</p>

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	2013	Andrew Manos, LEED AP BD+C



PAOE POINTS FOR 2014/2015

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	GGAC	Chapter PAOE Totals
282	680	1,945	1,360	450	1,845	1,810	1,275	9,365

June Program

The Long Island Chapter's Year End Celebration

Past Presidents Night, Student Scholarship Night



DATE:	TUESDAY, JUNE 9, 2015		
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

Membership

ASHRAE is proud to see its members advance both personally and professionally. Your Long Island Chapter is no exception. As another season of ASHRAE nears its end, it is important to take credit for your investment in ASHRAE over the past months. One of the best ways to accomplish this is through membership advancement.

If you are an Associate, this is an excellent time to advance to Member! There is no additional cost, and advancement entitles you to all of the benefits of ASHRAE.

To advance from Associate to Member, simply [update your ASHRAE bio online](#), and then notify membership@ashrae.org that you would like to be considered for grade advancement.

Steps for updating your biography:

Log into www.ashrae.org by selecting 'Join or Login' in the upper right corner. Enter your email address and password then select 'Sign In.'

Hover over the 'Membership & Conferences' tab and select 'My Membership.'

Under 'Manage Personal Information,' select 'Change Your Address/View or Edit Your Profile.'

Select the 'Edu. Pro. Reg' link located in the blue font above your name. Add all of your educational history, relevant professional licenses and work history.

Confirm that your contact information is current by clicking on 'Contact Info.'

Take the benefits that you have worked so hard for. Upgrade your membership today!

Lee Feigenbaum, LEED AP BD+C
Membership Chairman



Young Engineers in ASHRAE (YEA)

Hello all,

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 9th, 2015. 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. Keep up to date with some upcoming YEA programs and events as follows:

YEA Leadership Weekend Fall 2015

September 11-13, 2015 in Montreal, Quebec

Focusing on Leadership, Networking, Communication and Professional Development

YEA International Leadership Weekend Fall 2015

December 11-13, 2015 in Goa, India

Learn more about Society develop soft skills and network with other young professionals.

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



Research Promotion

I would like to thank all the companies who have participated in the annual 2015 Product Directory of Manufacturers and their Representatives. The Product Directory has been prepared as a service to all its members and as a service to the local HVAC industry. It will be made available to all ASHRAE and non-ASHRAE members at no-cost and can be obtained from our monthly meetings or directly from our web-site. The Directory is intended to provide better communications between manufacturers and their sales representatives; engineers who specify products; contractors who purchase and install the equipment; and other interested parties. Product Directory listings are not limited to ASHRAE members and the listings are not to be considered as advertising or endorsement by ASHRAE of any product, manufacturer or representative.



This year's overall resource promotion goal is \$2,208,050 with over 75 research projects on board. Our chapter is expected to raise approximately \$15,300 towards the overall goal of which we have already raised \$16,650. I am hoping I can count on the continued support of all of our past contributors who have generously supported us over the years. I also look forward to gaining the support of new contributors this coming year. Please help support ASHRAE in any way you can. I would like say 'thank you' to all the contributors listed below whom have already donated to ASHRAE this year:

INDIVIDUALS

Mr Andrew B Dubel, PE	Mr John D Nally
Mr Andrew E Manos, LEED AP	Mr Kenneth T Mueller
Mr. Anthony J. Rosasco, Sr	Mr Lee Feigenbaum
Mr Charles J. Lesniak, PE	Mr Marcel A Bally
Mr Donald Kane, PE	Mr Michael Gerazounis, PE, LEED AP
Mr. Evans J Lizardos	Mr Raj Prime
Mr Frank Morgigno	Mr Richard I Halley
Mr Frank Paradiso	Mr Richard Pearson, PE, LEED AP
Mr James Hanna	Mr Richard L Rosner, PE
Mr James Tauby	Mr. Ricky Gaska
Mr Jerome T Norris	Mr Ronald J Kilcarr, PE
Mr Jerome Silecchia	Mr Thomas Fields, PE, LEED AP
Mr John C Cronin, Jr	

COMPANIES

Accuspec Inc.	J-Mat Controls
ADE Systems	KLima
Albert Weiss AC Products	Marplat Company
ASAP Sales	Mason East
Bladykas Engineering	Metro Air Products
Building Cooling Systems	Mitsubishi
Bush Wholesalers	MV Controls
Carrier	Office of Anthony Rosasco
Catan Equipment Sales	PVI / Riverside Hydronics
Clean Air Company	Rathe Associates
Daikin	RPG Associates
Dagher Engineering	Siemens Building Tech.
Emerson Liebert	Technical Air Systems, Inc.
EMTEC Consultants	Ultimate Power
Environmental Air Quality	VMC East
GA Fleet	Victaulic
Gil-bar Industries	Wales Darby
Highmark NY, LLC	Wallace Eannace Assoc.

CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

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

Andrew Manos
ASHRAE Research Promotion Chair
c/o Stony Brook University
Research and Support Services, Suite 160
Development Drive
Stony Brook, NY 11794-6010

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

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

4) You can contribute directly on-line. www.ashrae.org

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

Thank you again for all of your support!

Andrew Manos, LEED AP BD+C
Research Promotion Chair



CTTC - The Year in Review

Once again, we find ourselves at that time of the year. While most are preparing for the start of Summer, your Chapter Officers/BOG members and Committee Chairs are winding up another ASHRAE "season". It seems appropriate therefore, to take a moment to look back at the technology ground which we have covered this year.

Technology Interchange

We began with an overview of the need for the transfer of technology. This transfer may be from research/academia to production; it may represent a transition from a high cost with limited availability to low cost, available to the masses; or, it may be a transfer from more developed countries to ones in need of assistance to improve living conditions. This latter transfer frequently requires the substitution of materials indigenous to a particular area, something the "maker" community has embraced and has made a science unto itself.

Technology Gone Wrong

Next on the agenda was a discussion of how an idea is taken from concept to prototype to production and the many decision points which can lead the process astray. These can range from technical (such as the selection of materials) to economic (mass production using automation and/or relatively unskilled labor versus the use of more highly skilled personnel requiring less oversight, but with a higher hourly cost). The ultimate hurdle is frequently a marketing issue. With the short half-lives of technology today, unless something is brought to market quickly, it may be old news before it has a chance to succeed. Other pitfalls include the marketing of technology for technology's sake...successful only until people realize that they may not really need a high tech solution to a low tech problem.

Motors

The next stop on our technological tour was the topic of motors. We saw how newer technology motors and speed control could result in reduced operational cost and higher system efficiency (by permitting variation of speed to match the driven equipment's load). The newer generation of AC motor speed control and electronically commutated DC motors is not without its dark side, however, as we noted the concern with distorted waveforms, EMI issues and the need for proper location of equipment to avoid damage from voltage spikes and overheating. All of these concerns may be overcome, but they need to be identified and addressed. This, once again, points out the need for technology interchange, so we can learn from others missteps (there is no shame in learning from other's mistakes).

Ducts

Our technological cruise then made a stop to discuss ducts. Certainly not a "new" technology, but newer technologies have given us the analytic tools to more accurately model and measure performance of various duct configurations with regard to flow, noise and sealing to minimize losses. Overall system efficiency was found to be dependent upon proper sizing, balancing and configuring to minimize restriction and backpressure. Proper use of insulation, properly applied, to minimize heat loss/gain and, where needed, to prevent condensation was not to be overlooked.

Louvers

Our mechanical system meanderings then took us to the topic of louvers and grilles. Focused on the exterior intake/exhaust portals of our HVAC systems, we learned the key points of material selection (for strength and aesthetics), corrosion protection, prevention of rain ingress (and provision for draining that which was not prevented) and, for those in areas subject to high wind events (tornados and hurricanes come to mind) resistance to wind driven objects.

Steam Boiler Design & Installation

The next port-of-call for our technology tour was the boiler room. After a brief history of early boiler development (in some cases, explosive deconstruction) and comparison with hot water systems, we were made privy to the benefits of



CTTC - The Year in Review (Cont'd. from Page 10)

steam systems for conveying large amounts of heat in small diameter pipes. In the process we learned the necessity of observing proper design in the location and configuration of piping connected to the boiler to assure maximum heat transfer and minimal water carry-over.

New Technology

From the "ancient", and still viable, steam technology, we wandered to the wonderful world of wireless technology to control battery powered vents, intelligent thermostats and low-cost high capacity data acquisition modules useful for establishing baseline information to model an HVAC system (or to verify performance for an installed system). Some of this technology will be found to be more useful than others, but it does show that the HVAC/R market has not been ignored by the high tech entrepreneurs.

Heat Exchangers

Our techno-travels then landed us in the land of heat exchangers. After reviewing the history of heat exchangers, from the use of heated bricks to today's shell and tube or plate and frame products. Air cooled heat exchangers were not ignored, although theirs is a more singular purpose, to reject heat (lacking operational reciprocity). Benefits of the various types were noted, as well as the need to properly select the material specified. This was found to be dependent upon the heat transfer fluid used and environmental concerns, such as corrosive atmospheres. The use of heat exchangers allowed us to locate the heating/cooling plant conveniently, rather than in the area where the heating/cooling was needed.

Temperature Control in Brewing

Our penultimate stop was to learn the finer points of temperature control as it applies to the brewing of beers, and how this is accomplished by techniques ranging from Styrofoam (ok...beadboard) coolers and muffin fans, to advanced PID control systems with data telemetry. Those who attended the April Field Trip were able to sample, first hand, the results of this application of refrigeration technology.

Counterfeit Products

The final stop on our thermally themed travels was a look into counterfeit products infiltrating the HVAC/R industry. Our May Distinguished Lecturer, Julian R. deBulleet, provided a detailed overview of the need for responsible use of refrigerants and the deleterious effects attributed to many of those currently in use, as well as the planned phasing out of those considered as ozone-depleting or contributing to global warming. Unfortunately, while the intention of these phase-outs is well meaning, it has created, in some cases, an opportunity for unscrupulous persons to distribute refrigerants which may contain toxic and/or flammable components which could put equipment and personnel at risk. Again, forewarned is forearmed, technology transfer at work!

Summary

Our CTTC travels this past year have taken us through the Good, the Bad and the Ugly....which brings us to the key reason for technology transfer/interchange. Only by staying abreast of the technology which is out there and the application (and misapplication) thereof, can we function in the best interest of the public (our clients and customers) good, and ensure the safe and efficient operation of the HVAC/R equipment which we specify, design, build and/or install.

While this has been a capsule summary of ten months worth of CTTC articles, for those interested, if you didn't see them the first time around, feel free to visit the ASHRAE-LI Website (www.ashraeli.org) to download back issues of the *Sounder*. I hope that everyone has a safe and comfortable summer and look forward to seeing you at our June, end-of-the year meeting, and again in September, when our new "season" begins.

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

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.

We would like to congratulate our 2015 student scholarship winners;

- **Philip Foo - \$1,000.00**
- **Ben Riordan - \$500.00**
- **Derek Sinagra - \$500.00**

All winners and their parents are invited to attend our June meeting where awards will be presented. Have a great summer and we hope to see you in the fall.

Richard Halley
Student Activities Committee Chair



Grassroots Government Activities Committee (GGAC)

I would like to say it's been a pleasure working with and helping starting the inaugural Grassroots Government Activities Committee over the past two years. I would like to thank the other members of the committee who have helped with our activities. We've had a very successful year at our chapter. We had joint engineering meetings with Long Island Chapter of SMACNA and Long Island Chapter of USGBC. We participated in National Engineering Week by holding a few seminars.

I will bring you the news of what ASHRAE has learned with the GGAC after our next CRC. Our chapter is looking to see if other organizations would like to join us for joint meetings for the next ASHRAE year so please contact me at ggac@ashraeli.org if your organization would like to hold a joint meeting. We are looking forward to participating in National Engineering Week once again next year. In the meantime please look at the ASHRAE's main GGAC page at <https://www.ashrae.org/government-affairs/grassroots-government-advocacy> for more information what the GGAC is doing nationally.

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



Easy Rider Meets ASHRAE?



With the coming of Spring (late season snow storms notwithstanding) and knowing that a number of our Chapter's members are itching to bring their motorcycles out from behind the snow blowers, we are looking to gauge interest in a group ride in the near future.

1. Would you be interested?
2. Would you prefer a weekday or weekend? (If week end, Saturday or Sunday?)
3. Would you prefer a short (1/2 day) ride (maybe breakfast before hand) or a longer trip (maybe to Greenport or Montauk) with lunch at the destination and maybe a stop or two on the way there and back?
4. Would you prefer: June, July, August or September?

Please respond with your preferences to: CTTC@ashraeli.org

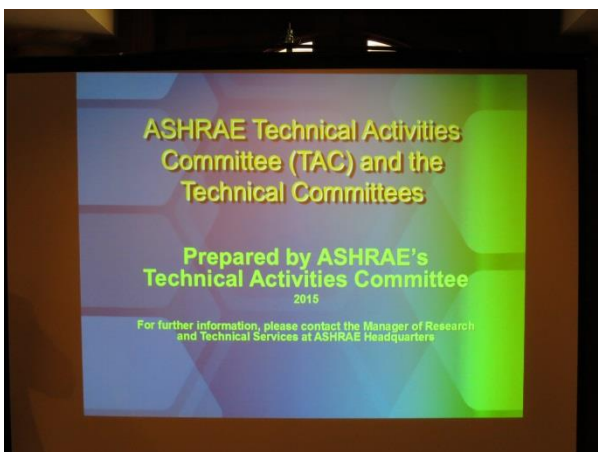
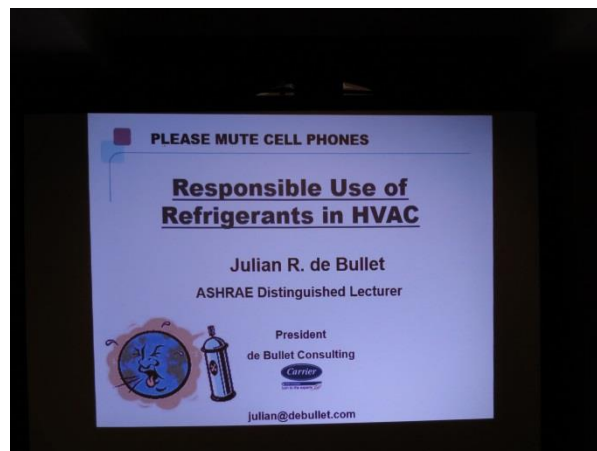
Thanks,
Don Kane
CTTC-Chair



May Meeting Pictures



May Meeting Pictures (Cont'd. from Page 14)



ASHRAE Golf Outing - Monday, June 15, 2015



16th Annual LI ASHRAE GOLF OUTING

Monday – June 15th, 2015

Place: Cherry Valley Club
 Brunch: 11:00 am
 Shotgun: 12:30 pm
 Reception: 5:30 pm
 Dinner: 6:30 pm



This Event fills up fast, to guarantee a spot RSVP Soon.

(2) Foursome Limit Per Company.

Proper golf attire and shoes are required. Locker room and shower privileges are included.

CHECKS MUST BE IN BY APRIL 30, 2015 (No Exceptions)

Fax, Email or Mail entire sheet or cut this half and return

Name: _____ Company: _____
 Address: _____ Phone: _____
 City, State, Zip: _____ Fax: _____

I have read and understand the Cherry Valley Rules and Regulations (Signature): _____

Guest 1: _____ Company: _____
 Guest 2: _____ Company: _____
 Guest 3: _____ Company: _____



Fund raising is primarily through the contributions of our sponsors.

Please make check payable to:

ASHRAE – Long Island Chapter

Mail Checks To:

MG Engineering D.P.C.

Attn: Peter Gerazounis, P.E. LEED AP

116 West 32nd Street

New York, NY 10001

Fax No.: (212) 643-0503

Email: peter.gerazounis@mgedpc.net

Golf & Meals: \$ 350 pp x _____ = \$ _____

Reception & Dinner: \$ 130 pp x _____ = \$ _____

Sponsor Dinner: \$1,000 ☐ Yes = \$ _____

Sponsor Lunch: \$ 500 ☐ Yes = \$ _____

Sponsor Reception: \$ 500 ☐ Yes = \$ _____

Sponsor Prizes: \$ 500 ☐ Yes = \$ _____

Sponsor Beverage Cart: \$ 500 ☐ Yes = \$ _____

Sponsor Hole: \$ 200 ☐ Yes = \$ _____

ASHRAE Golf Outing - Monday, June 15, 2015

Cherry Valley Club

28 Rockaway Avenue at Third Street

Garden City, NY

Telephone: (516)746-4420

Fax: (516)746-4421



Program:

11 a.m. Brunch in the Clubroom & Lounge – including Omelet station, deluxe deli board with rolls, chicken scarpiello, danish, croissants, bagels & cream cheese, sliced nova, fresh fruit and cheeses, Good Humor ice cream cart.

12:30 p.m. Shotgun Start Golf – Playing individual scores. Prizes for long drive, closest to the pins, low gross and callaway. Refreshments at the halfway house will include packaged snacks and whole fresh fruit, hot dogs, beer & soda. A snack cart will also be on the course. Carts, forecaddies, driving range, locker room and showers are all included in the price.

5:30 p.m. Following Golf - Open Bar with hot and cold horsd'ouvres in the Main Lounge. Fresh mozzarella with sun-dried tomatoes, cajun chicken, spring rolls, baby lamb chops, sesame chicken, turkey canapés, fried oysters, cheeses, fresh fruit, lobster halves, fresh clams & oysters, shrimp and crab claws.

6:30 p.m. Reception Dinner – Awards and raffle in the Main Dining Room. Carving stations of beef tenderloin & turkey breast. Chafing dishes of chicken & salmon featuring the chef's specialty, pasta station with marinara or vodka sauce, and choice of tossed or Caesar salad. Viennese dessert table following the dinner featuring pastries, fruit, cookies, assorted cakes and pies. Full beverage service throughout is included.

Women are also invited to attend and participate. There are locker room facilities available. The Cocktail hour and Dinner will also be available for those who cannot attend during the day for the golf.

Note: We are limited to 128 golfers. Openings will be filled on a first come-first serve basis. Corporate sponsorships will be available and raffle items will be welcome. Proper golf attire is a requirement for the golf course. Soft spikes are required. Please wear a jacket for the dinner.

Directions:

From the North Shore of Long Island: Take the Long Island Expressway to Exit 34 South (New Hyde Park Road Southbound), Grand Central Parkway (Northern State Parkway) to Exit 26 South (New Hyde Park Road Southbound) or Jamaica Avenue (Jericho Turnpike) Eastbound to New Hyde Park Road. Travel Southbound on New Hyde Park Road for approximately 5 to 7 miles to Stewart Avenue (You will cross over a set of railroad tracks). Take Stewart Avenue eastbound for approximately 1-1/2 miles to Cherry Valley Avenue. Travel Southbound on Cherry Valley Avenue for 1/2 mile, Cherry Valley Avenue becomes Rockaway Avenue. Continue on Rockaway Avenue and the entrance to Cherry Valley Club will be on your right.

From Local Points North: Take Old Country Road or Stewart Avenue to Franklin Avenue. Travel Southbound on Franklin Avenue to Fourth Street (just after crossing over railroad tracks). Turn right on Fourth Street and continue until it ends (Rockaway Avenue). Cross over Rockaway Avenue into the Cherry Valley Club's parking lot.

From the South Shore of Long Island: Take the Southern State Parkway to Exit 19 (Peninsula Boulevard-Hempstead/Garden City). Travel Northbound on Peninsula Boulevard for approximately 1/2 mile to President Street. Bear left on President Street (Northbound) for approximately one mile and cross over Hempstead Turnpike. President Street will become Cathedral Avenue. Continue on Cathedral Avenue for one mile to Fourth Street. Make a left on Fourth Street (Westbound) and continue until it ends (Rockaway Avenue). Cross over Rockaway Avenue into the Cherry Valley Club's parking lot.

From Local Points South: Take Hempstead Turnpike to Franklin Avenue. Travel Northbound on Franklin Avenue to Fourth Street. Turn left on Fourth Street and continue until it ends (Rockaway Avenue). Cross over Rockaway Avenue into the Cherry Valley Club's parking lot.

ASHRAE Golf Outing - Monday, June 15, 2015

Cherry Valley Club Golf Outing Guidelines



To add the enjoyment of your day, we ask that you abide by Cherry Valley Club's basic rules of The Club, dress, golf etiquette & safety, golf carts, and care of the course.

Club Rules

1. Smoking is not permitted in the Club House.
2. Cell Phones are permitted in the parking lot only. Use of Cell Phones beyond the parking lot is strictly prohibited. This includes the Golf Course.

Dress Code

1. Jeans, designer or otherwise, are not acceptable on club property. This not only includes pants, but skirts, and cut-offs.
2. T-shirts and tank tops are not in keeping with the atmosphere of the club and as such, are not acceptable. The definition of T-shirt includes those with psychedelic coloring or suggestive printing.
3. If the Main Dining room is going to be utilized for any purpose, jackets are required.
4. Short shorts are not permitted on the golf course, practice tee or putting green by either male or female. Bermuda shorts of acceptable length are permitted. Jogging attire and denim pants are not considered proper attire for the golf course.
5. **Soft spikes** are mandatory at all times on our fine golf course. If your shoes need soft spikes, arrive early so we can change them. There is a nominal fee. There is **no** exception to this rule.

Golf Etiquette and Safety

1. Slow play shows lack of consideration for the players in your group and, more important, for the players behind you. Golf is made much more enjoyable if all players adhere to the following points in the conduct of play:
 - Minimize the time spent looking for balls by watching the flight of balls hit by everyone in your group. If a ball appears to be lost or out of bounds, hit a provisional ball before leaving the tee.
 - Signal the players behind you to play through if it becomes apparent that a ball will not easily be found and you are holding up play.
 - Don't rush addressing and striking the ball but move briskly between shots.
 - If your ball is some distance from the golf cart and the exact club selection is in doubt, take several clubs with you when you leave the cart to walk to the ball.
 - When play reaches the area of the green, park the golf cart(s) behind the green or adjacent to the next tee. Walk briskly off the rear or side of the green after putting out. Mark your score cards after your group is off the green.
 - Once a score of double par has been posted, pick up and move on to the next hole.
2. No player should play until the players in front are out of range.
3. If your ball appears headed for a player or group of players immediately shout "fore" in a loud clear voice.
4. No one should move, talk or stand close to or directly behind the ball or the hole when a player is addressing the ball or making a stroke.

ASHRAE Fishing Trip - Friday, June 19, 2015



Come Join Us!



ASHRAE Long Island Chapter's Fishing Trip 2015

Date/Time

Friday, June 19th, 2015
3:00 p.m. – 7:00 p.m.
(Please be at the dock at 2:30 p.m.)

Location

Dixie II @ Captree State Park Boat Basin, NY

Fee

\$50 per person
(Maximum of 50 people)
Food, Beverages, Bait & Tackle will all be provided

Please RSVP by June 1st, 2015

andym22@optonline.net

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Directions to the Boat: Take Southern State Parkway to Exit 40 South Robert Moses Causeway South. (Ocean Beaches). Continue South on Robert Moses Causeway (over two bridges) follow the signs for Captree State Park Boat Basin. Dixie II is located on the east end of the parking lot near the bait store.

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

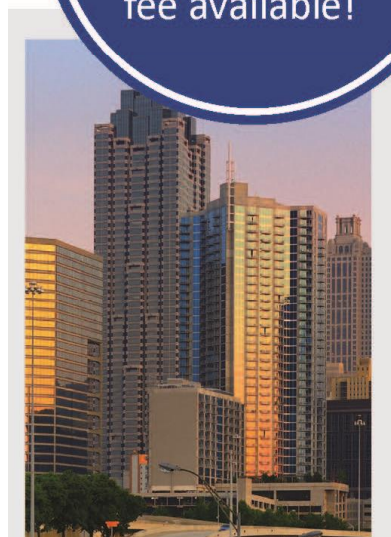
ASHRAE-LI is now offering **Ticket Books** for our Monthly Meeting/Dinner presentations. **\$400 for a book of Eleven** (that's right....eleven, one better than ten) tickets for the price of ten member admissions. Tickets are valid until December of 2015 and may be used by members and non-members. For 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 finsec@ashraeli.org or call 631-574-4870.**



ASHRAE's 2015 Annual Conference



Special first
time attendee
registration
fee available!



Join us at ASHRAE's 2015 Annual Conference
June 27-July 1 | Atlanta, Georgia | www.ashrae.org/atlanta

Join ASHRAE in its hometown of Atlanta! Take advantage of the opportunity to discuss and examine the latest topics in the building industry, such as high performing buildings and modeling, through the technical program; participate in technical tours; attend ASHRAE Learning Institute courses; sit for an ASHRAE certification exam; and earn professional development credits.

Conference Technical Program—includes the third annual Research Summit, which brings together researchers to present and discuss the latest research. Tracks focus on the design, construction and operation of high performance buildings, specifically advanced design guidance, modeling, operation and optimization, and indoor air quality. Laboratories, refrigeration, fundamentals, applications, systems and equipment round out the program.

Networking—share ideas and learn from fellow members from your hometown and around the world.

ASHRAE Learning Institute—choose from two full-day professional development seminars and seven half-day short courses to stay current on new HVAC&R technologies.

ASHRAE Certification—to gain a competitive edge, apply by June 9 to sit for an ASHRAE Certification exam.

CRC 2015 - August 20-22, 2015 - Syracuse, NY

The 2015 ASHRAE Region 1 CRC will be hosted in Syracuse, NY from August 20th thru August 22nd, 2015. Sign up today!

www.ashrae2015crc.com

Please mark your calendars for August 20 to 22 because the Central New York Chapter CRC is fast approaching. We have many things planned for you and your family to enjoy in the Central New York area. Among the events planned are the welcome party at the "Original" Dinosaur BBQ and replacing the traditional Presidential Dinner with a fun filled evening with a clambake at Hinderwadel's Clam Grove. You can make reservations plus check out other things to do in the area on our website at www.ashrae2015crc.com

Hope to see you in Syracuse !



CRC 2015 - August 20-22, 2015 - Syracuse, NY

EVENT SCHEDULE					
Day	Start Time	End Time	Event	Location	Attendees
THURSDAY, August 20, 2015	12:00pm	7:00pm	Registration	Lafayette Foyer	All Attendees
	12:00pm	2:00pm	Region 1 Audit	TBD Hospitality Suite	Invited Region 1 Officers
	1:00pm	3:00pm	Hospitality Suite	TBD	Registered Attendees
	1:00pm	3:15pm	Technical Session	Skaneateles Room	Registered Attendees
	3:30pm	5:30pm	Business Meeting 1	Lafayette Room	Delegates, Alternates & Regional Officers and Chairs
	6:00pm	7:00pm	Welcome Reception	Dinosaur Bar-B-Que 246 West Willow St.	Registered Attendees
	7:00pm	8:30pm	Welcome Dinner		
	8:30	12:00	YEA Event		
	10:00pm	1:00am	Hospitality Suite	TBD	Registered Attendees
FRIDAY, August 21, 2015	7:00am	7:00pm	Registration	Lafayette Foyer	All Attendees
	9:00am	11:00am	Hospitality Suite	TBD	Registered Attendees
	7:00am	9:00am	Breakfast	Horizons I II III	Registered Attendees
	8:00am	9:00am	Local ASHRAE Recognition Breakfast	Horizons VI	Invited Society and Local Guests
	8:00am	10:00am	Caucus	Lafayette Room	Delegates & Alternates ONLY
	9:00am	4:00pm	Companion Trip to Winery*	Meet 1st Floor Lobby	Registered Attendees w/ RSVP
	10:00am	11:45am	Chapter Operations Workshop	Skaneateles Room	Chapter Officers
	12:00pm	1:00pm	Lunch	Horizons	Registered Attendees
	2:00pm	3:30pm	Executive Session	Lafayette Room	Delegates & Alternates ONLY
	2:30pm	5:00pm	Tour of Syracuse Center of Excellence	Meet 1st Floor Lobby	Registered Attendees w/ RSVP
	3:30pm	5:45pm	Business Meeting 2	Lafayette Room	Delegates, Alternates & Regional Officers and Chairs
	6:00pm	10:00pm	Presidential Dinner	Hinerwadel's Grove	Registered Attendees
	10:00pm	???	YEA Event	Hospitality Suite / Armory Square / Phoebes	YEA Members
	10:00pm	12:00am	Hospitality Suite	TBD	Registered Attendees
	10:00pm	12:00am	Hospitality Suite	TBD	Registered Attendees
SATURDAY, August 22, 2015	7:00am	10:00am	Registration	Lafayette Foyer	All Attendees
	9:00am	11:00am	Hospitality Suite	TBD	Registered Attendees
	7:00am	9:00am	Breakfast	Horizons	Registered Attendees
	8:00am	9:45am	Business Meeting 3	Lafayette Room	Delegates, Alternates & Regional Officers and Chairs
	8:00am	11:00am	Government Activities Workshop	Manlius Room	GA Chairs
	8:00am	11:00am	Membership Promotion Workshop	Skaneateles A	Membership Chairs
	8:00am	11:00am	CTTC Workshop	Skaneateles B	CTTC Chairs
	8:00am	9:30am	Research Promotion Workshop	Fayetteville Room	Research Chairs
	8:00am	9:30am	Historian Workshop	Dewitt Room	Historians
	8:00am	9:30am	Student Activities Workshop	Pompey Room	Student Activities Chairs
	10:00am	11:30am	RECC Workshop	Fayetteville Room	RECC Chairs
	10:00am	11:30am	YEA Workshop	Pompey Room	YEA Members
	10:00am	12:00pm	Hospitality Suite	TBD	Registered Attendees
	12:00pm	2:00pm	Awards Luncheon	Horizons	Registered Attendees
	2:30pm	3:30pm	CRC Debrief	TBD Hospitality Suite	CRC Host Committee & Guests

Note: * Companion Trip to Winery limited to first XX that pre-register

CRC 2015 - August 20-22, 2015 - Syracuse, NY

Hotel Information

Crowne Plaza Syracuse Hotel
701 East Genesee Street
Syracuse, NY 13210

The Crowne Plaza Syracuse hotel is an upscale hospitality gem, offering luxury rooms and suites and generous amenities for business and leisure travelers. From onsite dining at Redfield's Restaurant to elegant meeting space and a convenient business center, the offerings at our distinctive circular hotel are diverse and accommodating. Be greeted by world-class service and inspired services unsurpassed by other downtown Syracuse hotels.



The Crowne Plaza has a shuttle available for use by hotel guests. The shuttle is available anytime throughout the day. The shuttle will bring you and your family to the following destinations:

- Airport drop off and pick up
- **Destiny USA** - This is one of Americas largest shopping and entertainment venues. More than 200 retailers, kid's adventure including go carts, Wonderworks, Dave and Busters and much more. The Onondaga Creekwalk starts (or ends) at Destiny USA. www.destinyusa.com;
- **Armory Square** – Armory Square is located downtown and includes boutique shopping and a variety of restaurant, cafes and bars with outdoor seating and entertainment, the MOST (Museum of Science and Technology). Armory Square is also the start (or end) of the Creekwalk, a walking path along Onondaga Creek through the heart of Syracuse. www.Armorysq.org ; www.most.org ; www.syracuse.ny.us/Creekwalk.aspx
- **Downtown** – Outside of Armory Square is a host of other restaurants, shops and museums including the Erie Canal Museum, Everson Art Museum. Syracuse is filled with beautiful architecture. www.downtownsyracuse.com; www.Everson.org ; www.eriecanalmuseum.org; www.CNYhistory.org
- **Onondaga Lake Parkway** – This Park on the lake is a recreational gemstone, with a 10 mile biking, walking, rollerblading trail on the lake, Wingman's kid's park, the Salt Museum, picnic and recreational areas, and a short walk to the village of Liverpool. www.onondagacountyparks.com/onondaga-lake-park

Access to these venues by the free shuttle is a great way for your family to enjoy the Syracuse area while visiting for the 2015 ASHRAE Region 1CRC.

CRC 2015 - August 20-22, 2015 - Syracuse, NY



CRC Thursday Night Welcome Dinner

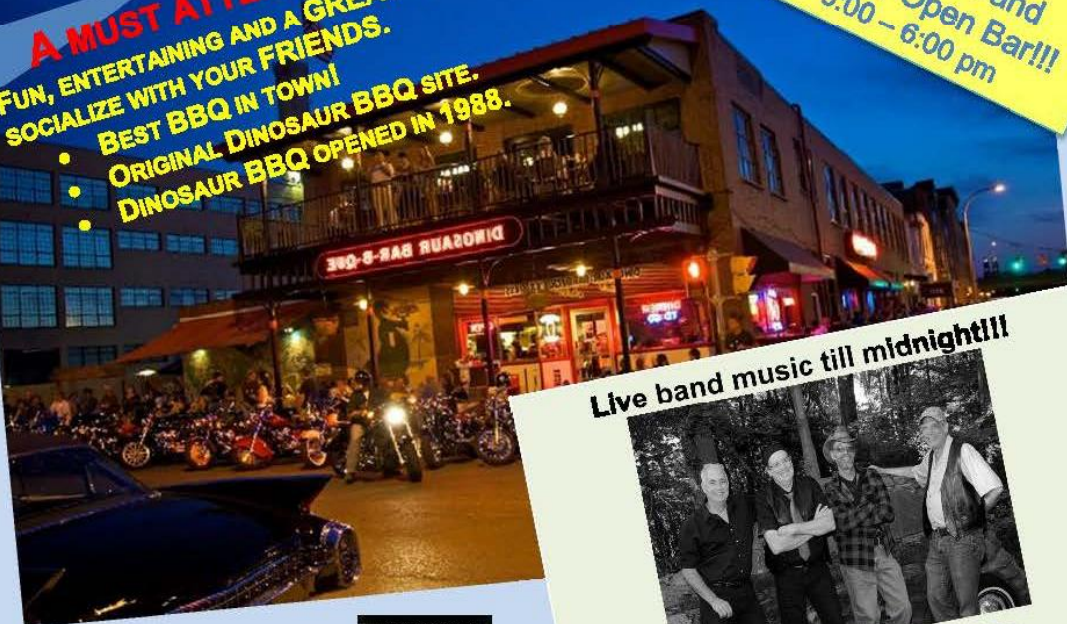
Aug 20, 2015

5:00 pm till Midnight

246 West Willow St.
Syracuse, NY 13202

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FUN, ENTERTAINING AND A GREAT TIME TO
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• DINOSAUR BBQ OPENED IN 1988.

Happy Hour
Appetizers and
1 Hour Open Bar!!!
5:00 – 6:00 pm



Live band music till midnight!!!



**YEA and all, are
invited to the Fun!!!**



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Assist field service technician with equipment commissioning and trouble shooting

Interface with manufacturer's representative

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Fax: 212-886-6605

Attn: Vivian

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Many new products will be added in 2015, especially on the equipment side; if you are experienced in equipment sales it is worth your time to discuss the opportunities.

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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	Half Page	\$500
Triple Size	\$350	Full Page	\$800

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