

THE LONG ISLAND SOUNDER

September 2011



ASHRAE Long Island Chapter, Region 1...Founded in 1957

www.ashraeli.org

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

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President's Message

Hello everyone and welcome to another exciting year of ASHRAE. I hope you enjoyed a great summer and are now looking forward to a pleasant fall. Having started this journey in 2003, I have grown to know all of the members who attend our monthly meetings, and I look forward to seeing you all in the upcoming year.



First of all I would like to give a very big thank you to Nancy Román, Past President from just last year. Nancy is a very close friend of mine, with whom I've shared ups and downs with, but the leadership skills she brought to the table last year gave me some pretty big shoes to fill. This statement can only be clarified by the fact that at this year's CRC (Region 1 Chapter Regional Conference) Nancy won the Golden Gavel Award. This award is given out for Outstanding Chapter Performance, and is the most prestigious award given out at our yearly regional meeting! Along with this she also won The Certificate of Presidential Award of Excellence, High Honor Roll, Special Citation and the Star Awards. There were two other BOG/Committee Chairs who won awards this year along with our Past President. The first went to Rich Rosner for Student Activities with Most Improved Honorable Mention. Thank you Rich for doing a great job in getting more students involved with the chapter, and the chapter more involved with the schools of Long Island. The Second Award went to Andy Manos for all of his achievements in Resource Promotion. Andy made sure we met and exceeded all of our goals for the year and was dubbed "The Power House of RP". Congratulations to all of our award winners!

As I was writing this message I received a very exciting e-mail that is fitting to be announced at this time. Our very own Rich Rosner has been appointed to 2 technical committees, TCs 4.7 and 5.7 for the current and forthcoming Society year. It is great to see this type of activity in more than just the local level from our chapter members. This also allows me the chance to give a shout out to Steven Friedman, P.E., HFDP, LEED AP for his continued efforts at the regional level, as he is now in his 3rd year as Region 1 Refrigeration Chairperson. Steve, Past President from the '08-09 of the Long Island chapter has done an amazing job at this position, and I hope will continue on with other committees once this term is up.

CHAPTER MONTHLY MEETING

DATE:	Tuesday, September 13, 2011
TIME:	6:00 PM - Cocktails/Dinner 6:45 PM - Dinner Presentations 8:45 PM - Conclusion
LOCATION:	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
FEES:	
Members -	\$40.00
Guest -	\$45.00
Student -	\$15.00

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

Continued on Pg. 3

Long Island Chapter Officers & Committees

ASHRAE 2011/2012 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	Carolyn Arote	516.568.6550	516.568.6575	carote@adehvac.com
President-Elect	Brian Simkins, LEED AP	203.261.8100	203.261.1981	bsimkins@accuspecinc.com
Vice President	Andrew Manos, LEED AP	631.632.2791	631.632.1473	andym22@optonline.net
Financial Secretary				
Treasurer	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	thomas.fields@mgepc.net
Secretary	Richard Rosner, P.E.	631.737.9170	631.737.9171	rrosner@csfllc.com
Board of Governors	Charles Lesniak	516.484.1020	516.484.0926	charles.lesniak@leapc.com
Board of Governors	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	andrew.dubel@leapc.com
Board of Governors	Nancy Román	516.568.6509	516.568.6586	nroman@adehvac.com

ASHRAE 2011/2012 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	Brian Simkins, LEED AP	203.261.8100	203.261.1981	bsimkins@accuspecinc.com
Membership	Charles Lesniak	516.484.1020	516.484.0926	charles.lesniak@leapc.com
Chapter Technology Transfer (CTTC)	Don Kane, P.E.	631.737.9170	631.737.9171	dkane@csfllc.com
Newsletter Editor	Liset Cordero	212.643.9055	212.643.0503	liset.cordero@mgepc.net
Research Promotion	Andrew Manos, LEED AP	631.632.2791	631.632.1473	andym22@optonline.net
Historian	Richard Rosner, P.E.	631.737.9170	631.737.9171	rrosner@csfllc.com
Student Activities	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	andrew.dubel@leapc.com
Young Engineers in Training	Charles Lesniak	516.484.1020	516.484.0926	charles.lesniak@leapc.com
Webmaster	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	thomas.fields@mgepc.net
Nominating	Nancy Román	516.568.6509	516.568.6586	nroman@adehvac.com
Reception & Attendance	Rich Halley			
PR & Engineering Joint Council of LI	Peter Gerazounis, P.E. LEED AP	212.643.9055	212.643.0503	peter.gerazounis@mgepc.net
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	peter.gerazounis@mgepc.net sfriedman@akfgroup.com

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President's Message (Cont'd from Page 1)

As we start this new year, I am privileged to lead a fantastic group of Board of Governors and Committee Chairs. In case you do not already know who they are I would like to introduce them:

- Brian Simkins, LEED AP... President Elect/ Programs Chair
- Don Kane, P.E. ...Board of Governors/Chapter Technology Transfer
- Rich Rosner, P.E. ...Secretary/Historian
- Andy Manos, LEED AP...Vice-President/Resource Promotion
- Tom Fields, P.E., LEED AP ...Treasurer/Webmaster
- Charles Lesniak, P.E....Board of Governors/Membership/YEA
- Andrew Dubel, P.E....Student Activities

We also have Liset Cordero returning as Newsletter Editor, Nancy Román as Board of Governors, Rich Halley as Reception & Attendance and Steve Friedman, P.E., HFDP, LEED AP along with Peter Gerazounis, P.E., LEED AP running our Annual Golf outing Committees. If you have not had the chance in the past please say hello to each of these individuals at the upcoming meetings, as it is all of their hard work that keeps this chapter doing so well.

When our group attended the CRC I had to write a list of what I hoped to achieve throughout my term as President. I thought I should share just two of these ideas with all of you. As our membership you play an important role in making our chapter a success. The first thing I would like to do is grow our monthly meeting attendance by at least 5%. This can be easily attained if everyone brings down a co-worker or industry friend, who you think can benefit from our meetings. The second thing I would like to accomplish is to have each of our committees grow, so that we have no less than 2 people per group helping out. Although it is not hard work, it is volunteer time and the more help we get the better. So I am asking each of you as you read this if you know someone you would like to bring down or if you think you can be of service on one of our committees please come on down and say something. Since our team is strong you might not think your help is needed or wanted, but sincerely it would be accepted and valued.

This year we plan on growing our efforts with the back to basics learning programs. We have set aside several classes that our very own "Chapter Legend" Evans Lizardos, P.E., LEED AP will be teaching. These classes are going to be held before our regular meeting, and is an effort to get some of the younger members more involved. We also have a variety of Meeting Programs that hopefully will be enjoyed and learned from by all. With that said Hold on to your hats....as this year is really going to fly by!

***Carolyn Arote, President
Long Island Chapter***



Chapter Monthly Meeting - Program for 2010/2011

September 13, 2011 * At Westbury Manor Dinner Presentation – Cooling Tower Water Treatment Through Non Chemical Technologies Presenter - Leon Shapiro **1 PDH**	February 19-25, 2012 NATIONAL ENGINEERS WEEK
October 11, 2010 * At Westbury Manor Dinner Presentation – Application of Mixed or Hybrid Boiler Systems for Energy Efficiency Presenter - Tom Neill **1 PDH** RESOURCE PROMOTION NIGHT <i>Back to Basic Session I</i> **1 PDH**	March 13, 2012 * At Westbury Manor Dinner Presentation - TBD YEA NIGHT <i>Back to Basic Session III</i> **1 PDH**
November 15, 2011 * At Westbury Manor Dinner Presentation - TBD Presenter - JOINT MEETING WITH SMACNA STUDENT ACTIVITIES NIGHT MEMBERSHIP PROMOTION NIGHT YEA NIGHT <i>* Meeting will be held on 3rd Tuesday of the month.</i>	April 10, 2012 ANNUAL FIELD TRIP - TBD
December 13, 2011 Holiday Party - Westbury Manor	April 30, 2012 * Cherry Valley Club, Garden City, NY ANNUAL GOLF OUTING
January 11, 2012 * At Westbury Manor Dinner Presentation - TBD Presenter - **1 PDH** <i>Back to Basic Session II</i> **1 PDH**	May 8, 2012 * At Westbury Manor Dinner Presentation - TBD Presenter - STUDENT ACTIVITIES NIGHT
January 21-25, 2012 ASHRAE Winter Meeting Convention Center Chicago	June 12, 2012 * At Westbury Manor PAST PRESIDENTS & OFFICER INSTALLATION
February 21, 2012 * At Westbury Manor Dinner Presentation- TBD Presenter- <i>* Meeting will be held on 3rd Tuesday of the month.</i> JOINT MEETING WITH USGBC RESOURCE PROMOTION NIGHT MEMBERSHIP PROMOTION NIGHT **1 PDH**	

August 2012 - Chapter Regional Conference Region I

PAOE FINAL POINTS TOTALS FOR 2010/2011

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	Chapter PAOE Totals
295	920	985	3,143	500	1,875	1,325	8,748

September Program



Dinner Presentation

“Sustainable Cooling Water Treatment Through Non-Chemical Technologies”

Presented by

Leon E. Shapiro
VRTX Technologies

**Attendees
Will Earn
1 PDH!**

DATE:	TUESDAY, SEPTEMBER 13, 2011		
Time:	6:00 PM – Cocktails and Hors D'oeuvres 7:00 PM – Dinner Presentation 8:45 PM – Conclusion	Fee:	\$ 40.00 Member \$ 45.00 Guest \$ 15.00 Student
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.		
Presentation:	This month's presentation (Sustainable Cooling Water Treatment Through Non-Chemical Technologies) will discuss viable non-chemical technologies that can be used as a means to treat cooling tower and evaporative condenser water without chemicals in order to achieve proper scale, corrosion and bacteria control. Our presenter will also discuss the potential to use the blow-down water from such systems for landscape irrigation and other re-use. This presentation will also outline how the use of these technologies can generate LEED credits for the building owner/operator.		
About our Speaker:	<p>Leon E. Shapiro is the National Accounts Manager for VRTX Technologies located in San Antonio, Texas. VRTX is a leading provider of non-chemical water treatment services, specializing in the treatment of cooling towers and evaporative condensers. Leon has a Bachelor of Arts degree from the University of Illinois, Urbana-Champaign; and a Juris Doctorate degree from Illinois Institute of Technology/Chicago-Kent College of Law. He practiced business law for 13 years before moving into private industry where he has specialized in energy efficient HVAC and water conservation.</p> <p>Leon is a member of the Refrigeration Engineers and Technicians Association (RETA), and the United States Green Building Council (USGBC). Leon is also a member of the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE).</p>		

Research Promotion

Last year's overall resource promotion goal was \$2,001,900 with over 75 research projects on board. Our chapter raised \$20,145 towards this goal and the overall goal was met. 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 to say 'thank you' to all the contributors listed below whom have donated to ASHRAE last year:

INDIVIDUALS

Mr Andrew B Dubel
 Mr Andrew E Manos
 Mr Anthony J Rosasco, Sr
 Mr Brian C Simkins
 Mr Carl E Graber, PE
 Ms Carolyn Arote
 Mr Charles J. Lesniak
 Mr Charoulis Charalambous
 Mr David Robert Jendras
 Mr David G Kwalbrun
 Mr David Shaw
 Mr Douglas Constantine, PE
 Mr Evans J Lizardos
 Mr Frank D Morgigno
 Ms Janeth Costa
 Mr Jerome T Norris
 Mr Jerome A Silecchia
 Mr John E Lizardos
 Mr John D Nally
 Mr Joseph V Marino
 Mr Kevin Beirne
 Mr Leonard Locascio, PE
 Mr Marcel A Bally
 Mr Michael Coburn
 Mr Michael Gerazounis, PE
 Mr Michael O'Rourke
 Ms Nancy Roman
 Mr Patrick J Lama
 Mr Peter Gerazounis, PE
 Mr Raymond G Schmitt
 Mr Richard Gerbe
 Mr Richard L Rosner, PE
 Mr Ricky Gaska
 Mr Ronald J Kilcarr, PE
 Mr Steven D Friedman, PE,HFDP,LEED AP
 Mr Steven R Giammona, PE
 Mr Thomas Fields, PE

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 Taco Inc
 Technical Air Systems Incorporated
 Tower Enterprises of New York & New Jersey
 Trane
 Twinco Supply Corporation
 Viessmann
 Wales Darby Incorporated
 Wallace Eannace Associates

Research Promotion (Cont'd. from Page 6)

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
Campus Planning, Design and Construction
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 your accredit your contribution to the LONG ISLAND CHAPTER 006 ***

Thank you again for all your support!

Andrew Manos, LEED AP
Research Promotion Chair

Mission: To improve the quality of life and to answer tomorrow's questions through research TODAY.

Over \$2million raised annually to help fund \$10million in research projects and student grant-in-aids.

Research is used to update the Society's standards and guidelines.

Contributions come from more than 6,700 members, non-members, and companies.

100% of all funds raised go directly to research projects that support the HVAC&R industry.

Active research projects are conducted all around the world at various universities and private organizations.

ASHRAE RESEARCH PROMOTION

Important Links:

www.ashrae.org/rp
www.ashrae.org/contribute*
www.ashrae.org/consumer
www.ashrae.org/pressroom
www.ashrae.org/research

*ASHRAE is a qualified 501(c)3 and all contributions are tax deductible.

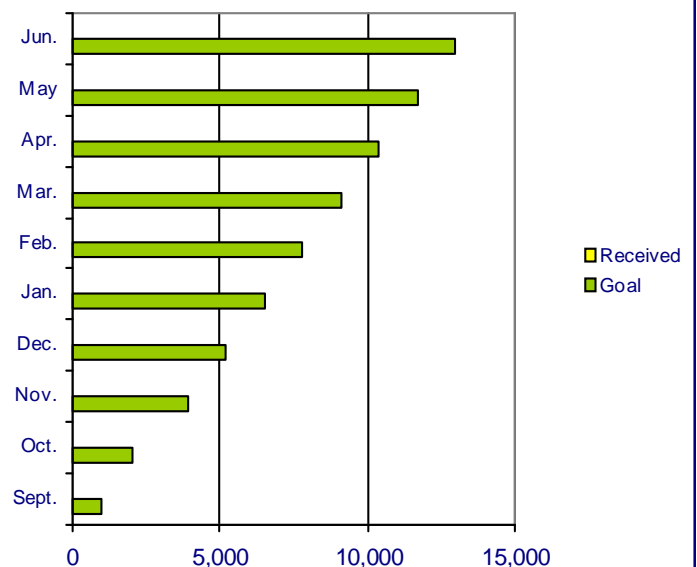
Important Contacts:

Patricia Adelman
RP Manager
(404)636-8400 ext. 1114
PAdelman@ashrae.org

John Rhodes
RP Committee Chair
(972)206-2590
Gopher56@swbell.net

ASHRAE RESEARCH PROMOTION

**Chapter Research Promotion Goal
For 2011-2012 - \$12,881**



CTTC

COOLING TOWER WATER TREATMENT AND FILTRATION

Filtering and water treatment, why is it required? Regardless of the type of cooling tower used (natural draft, induced draft or forced draft) and construction (wood, concrete or metal) there exists a sump or basin into which water collects and remains for some finite period of time. In the process of reaching that sump or basin, the water has traversed a system of piping, nozzles and equipment which require optimum heat transfer and dispersal in order to accomplish proper cooling. Anything which reduces the effectiveness of that process results in, as a minimum, a reduction in efficiency of the equipment or, in the worst cast, a catastrophic shut down.

Contamination of the cooling tower water takes the form of particulates as well as bacterial and algae. Particulates may be broken down further:

- Settleable solids; such as sand, scale, mineral precipitates and rust which, without removal will generally end up in the sump or basin. This particulate build up, in addition to providing a breeding ground for bacteria and algae, will prevent contact of treated water with the sump or basin, leading to accelerated corrosion and loss of equipment life.
- Suspended Particles; for example, airborne leaves, grasses, seeds and insects, generally do not remain in the sump/basin, but travel through the system and either clog nozzle orifices or build up on tube and pipe surfaces. This accumulation can result in decreased flow, decreased heat transfer and increased back-pressure. This reduction of efficiency can range from 20% to 90%.
- Small particles; these particles, 0.5 micron or less, are generally not the source of the majority of cooling tower problems.

In order to remove the particulates, there are a number of technologies and topologies available. A "full flow" system may be used, which, as its name implies, flows all of the process water through the filtering system. Alternately, a "side-stream" approach may be used, which flows only a portion of the full system capacity at any given time frequently 10% of the total system flow or that portion of the total system capacity which will result in the entire system being filtered one time per hour.

Full flow filtering is not always practical for large volume/flow system, where one could opt for the side-stream approach to reduce the size of pump(s) required for the filtering.

The filtering technologies available include:

Strainers or screen filters
Centrifugal or inertial separators
Disk Filters
Sand or Diatomaceous Earth Filters
Bag Filters

Typically, Strainers or centrifugal/inertial separators are employed in full-flow systems, generally with the backpressure monitored and flushing taking place under manual or automatic control. Disk filters (50 to 200 microns) and sand/diatomaceous earth filters (10-50 microns) are more frequently used in the side-stream configuration. Strainers and centrifugal/inertial separators typically have a higher, but constant pressure loss, while the disk and sand/diatomaceous earth filters start out with low back-pressure which increases as they "load up" with particulates.

All filters require a cleaning or backwash cycle, which may be performed automatically or manually. Generally, centrifugal/inertial types require less backwash water than sand and diatomaceous earth types. Additionally, during the backwash, some portion of the sand or earth media is lost and needs to be replenished.

How does one select the "best" filtering technology? The key steps are to:

- Identify the type(s) and size(s) of the particulate(s) of concern.
- Determine the maximum particulate size that can be present in the water stream without ill effect on the operation of the process.
- Determine the cost of shutting down the installation if the cooling system is shut down.
- Calculate the capacity of the cooling system.
- Determine the effect on system flow with increasing back pressure

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CTTC (Cont'd. from Page 8)

Once that information is in hand, one can then determine if full flow or side stream (or a combination where high flow capacity is needed but filtering of extremely small particulates is required) and the technology to be used. At this point it becomes largely an economic choice based on a cost/benefit analysis.

In addition to the choice in filtering technology, it will, generally, be necessary to incorporate some form of water treatment. While some filter technologies may provide for the destruction of some physical waterborne organisms control of bacteria and most organisms will require maintaining the proper pH and concentration of chlorine or other biocide.

Regardless of the filter technology chosen, it is anticipated that repair/replacement/maintenance must be performed. For this reason one must provide a bypass provision for processes which need to be maintained.

Don Kane, P.E.
CTTC

History

Hello members, I am Rich Rosner and I am your History Chairman this year. I seem to be getting more and more grey hairs on my head which probably means I have lived and observed through a lot of the times I am going to write about. I often tell people I think much the same now as I did when I was young but just say NO a little more. Instead of slowing down the older I get I have found that the years behind me make me now come to decisions faster and more accurately.



Why do we study history? The study of history honors the people and accomplishments of the past and helps us learn from the mistakes as well as the progress. They say history tends to repeat itself. I think in our field things might be different.

Have you ever thought how what is happening right now today will look in tomorrow's history? Will the numbers we use today like watts per sq ft for lighting loads; BTU's per sq ft etc. seem ridiculously high at a later date? Will the now high efficiency equipment we use today be outlawed as low efficiency at a later date? When if ever will fossil fuels not be used for heating/cooling/generation etc?

How much smoother things would be if we knew where we were heading and when. Forecasting the future is hard but some things are inevitable and we should plan for them. We should not use the excuse we didn't know or no body told me when we should be able to read the writing on the wall from our studies of the past.

I will be exploring the time line of our industry in this column over the next year. I will interview some of our members and get their thoughts and will take suggestions for topics. Please feel free to contact me at anytime to pass on your wisdom. As all other historians have asked, if you have some old photographs or other chapter memorabilia please pass it on for copying or making part of our historical collection.

Do you know how reading and memorizing the History column in each month's flier will get you one or more bottles of wine at the June meeting? Study your history and see. Hope to see you at the meeting.

Richard Rosner, P.E.
Chapter Historian

Please remember to send in any old ASHRAE photographs, papers, articles, and speeches of people who have been through the Long Island Chapter of ASHRAE. I would like to upload this information to our chapter's website. Everything sent in will be returned.

Student Activities

As summer comes to a close, students are heading back to school for their fall semester. Senior high school students are beginning to look at colleges and majors. College students look ahead to their careers. ASHREA is again here to help guide and support these students with scholarships, mentorships and internships.

Our chapter will host two student activity nights during the upcoming year. Again we shall reach out to area college students who are studying engineering. Each year society gives us a new handbook and many of us have old handbooks lying around unused; we would like to distribute these to student members who haven't yet collected a full set. We would also like to increase participation in our mentorship program with student members. Both senior and young members have a great deal to share, be it years of experience or recently having been in the same position. If you are interested in mentoring please see me at a meeting.

In addition to students who have already decided to study engineering, we would like to reach out to K-12 students and expose them to the field. Society is focusing on K-12 outreach to spark an interest math and science in today students, with the hope that they will become tomorrow's engineers and scientists. ASHREA is now providing a lot of support for outreach in the form guided discussions and activities about math, science and engineering. If you have some spare time, we welcome volunteers who would like to speak to students at various levels in elementary, middle and high schools.

Thanks for your time. I am looking forward to working with you during the upcoming year as Student Activities Committee Chair.

Andrew B. Dubel, P.E.
Student Activities Committee Chair



Donate your old Handbooks

Please bring your old handbooks to the meetings for donations to our student members who do not have complete sets at this time. Rich Rosner will be collecting them.

Membership

Hello to all I am Charlie Lesniak and I am looking forward to being the Membership Chair for the 2011/2012. Our chapter will hold two Membership nights and the will be during the November and the February monthly meetings. Please visit the ASHRAE website at <http://www.ashrae.org> to review and update your bios, and to check if you are up to date with your membership dues. We are always looking for new members to join and attend our meetings. ASHRAE is looking to retain more student members thru their smart start program. Student members should look into this program. It will help you adjust to the membership status. Please see the ASHRAE website for more information. I'm looking forward to seeing everyone after this summer break.

Charlie Lesniak
Membership Chairman

Young Engineers in ASHRAE (YEA)

Hello to all. I am Charlie Lesniak and I am proud to be heading up YEA again. As you remember YEA, or Y-E-A stands for Young Engineers in ASHRAE. If you would like to join YEA it's really easy. You have to be under 35 years' old, and you're automatically a member. Our Chapter will be having three Back to Basic sessions this year and the topics will be announced in the next Sounder issue. We are also having two YEA nights. Our first night will be during the November meeting, and the second one will be during the March meeting. We will be looking for other ideas for social events so please contact me if you have any ideas.

Nationally there are a few YEA events this year. There will be two YEA leadership conferences this year. The first one will be held in October at the ASHRAE headquarters from September 30th thru October 2nd, and the second one will be held in the spring on the west coast (location to be determined). Please go to the website: <http://www.ashrae.com/members/page/2011yealeadershipweekend> for more information. Region I will have 6 scholarships available for \$350 for people attending the fall leadership conference. Please go to the YEA website for more information.

YEA will also be hosting Leadership U during the ASHRAE Winter and Annual Conferences in Chicago. During Leadership U, YEA members will be paired up with ASHRAE Society Officers and they will be able to participate in the in events and board meetings. There are four positions available for Leadership U, and they will be determined by an application process.

Charlie Lesniak
YEA Chairman

Long Island Chapter - Past Presidents

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

CRC 2011 PICTURES



**Richard L. Rosner, P.E., Nancy Román,
and Andrew Manos, LEED AP (from left to right)**



Carolyn Arote and Charlie Lesniak



**Steven Friedman, P.E., HFDP, LEED AP
and Kevin Gallen**



Andrew B. Dubel, P.E.

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