



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

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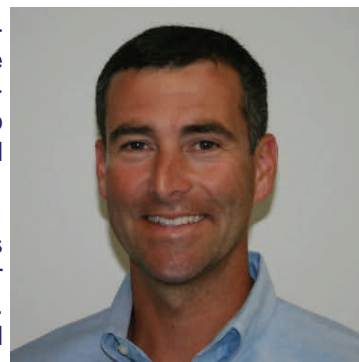
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### President's Message

Well it seems as though winter is finally here I hope everyone is staying warm and keeping healthy. If you're lucky you were able to head to Dallas, TX for the ASHRAE winter meeting and AHR show. I look forward to hearing about all those great educational sessions and product show cases.

Thank you again to our last month's presenters, Evans Lizardos with his back to basics followed by our dinner presentation by Michael Ganz and Marvin Schechter. They were all great topics and from the questions and attention in the audience they were well received.

This month we will have our joint meeting with USGBC with a presentation by ASHRAE Distinguished Lecturer David Underwood. David hails from Ontario, Canada and will be presenting on **"Introduction to BEQ Labeling Program"**. Building Energy Quotient (bEQ) is a building energy labeling program that lets commercial building owners zero in on opportunities to lower building operating cost and make informed decisions to increase value. bEQ's In Operation rating applies an easily understood scale to compare a commercial building's energy use with similar buildings. What makes bEQ unique is the depth of the analysis upon which the rating is based. I look forward to hearing what David has to say about this rating system and how it can bring value to our building owners and operators.



### CHAPTER MONTHLY MEETING

<b>DATE:</b>	<b>Tuesday, February 12, 2013</b>
<b>TIME:</b>	6:00 PM - Cocktails/Dinner 6:45 PM - Dinner Presentations 8:45 PM - Conclusion
<b>LOCATION:</b>	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
<b>FEES:</b>	
Members -	\$40.00
Guest -	\$45.00
Student -	\$15.00

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

If any companies have openings for internships now is the time to find some students to fill them. Please see Rich Halley so we can get you posted and marketed to our student advisors. Speaking of marketing if you are interested in being a sponsor to our meeting please speak with Andrew Manos so we can set you up with a table top at the pre-meeting and your 5 minutes of fame.

The month of February includes an Engineer's Week so keep your eyes out for any updates on local events and activities. I know the EJCLI is putting on a full day of seminars so if you need any continued education credits here is your opportunity. This also is a large community of engineers that we can share our ASHRAE story with and hopefully grow this relationship.

I look forward to seeing you all this month and if you have any comments or questions please feel free to contact me at any time.

Kindest Regards,

**Brian Simkins, LEED AP**  
**President - Long Island Chapter**

## Long Island Chapter Officers & Committees

### ASHRAE 2012/2013 OFFICERS

POSITION	NAME	PHONE	FAX	EMAIL
President	Brian Simkins, LEED AP	203.261.8100	203.261.1981	<a href="mailto:bsimkins@accuspecinc.com">bsimkins@accuspecinc.com</a>
President-Elect	Andrew Manos, LEED AP	631.632.2791	631.632.1473	<a href="mailto:andym22@optonline.net">andym22@optonline.net</a>
Vice President	Richard Rosner, P.E.	631.737.9170	631.737.9171	<a href="mailto:rrosner@csfllc.com">rrosner@csfllc.com</a>
Financial Secretary	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	<a href="mailto:thomas.fields@mgepc.net">thomas.fields@mgepc.net</a>
Treasurer	Charles Lesniak, P.E	516.484.1020	516.484.0926	<a href="mailto:charles.lesniak@leapc.com">charles.lesniak@leapc.com</a>
Secretary	Don Kane, P.E.	631.737.9170	631.737.9171	<a href="mailto:dkane@csfllc.com">dkane@csfllc.com</a>
Board of Governors	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	<a href="mailto:andrew.dubel@leapc.com">andrew.dubel@leapc.com</a>
Board of Governors	Richard Halley	718.269.3809	718.269.3725	<a href="mailto:rchalley@trane.com">rchalley@trane.com</a>
Board of Governors	Carolyn Arote	516.568.6550	516.568.6575	<a href="mailto:carote@adehvac.com">carote@adehvac.com</a>

### ASHRAE 2012/2013 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	Andrew Manos, LEED AP	631.632.2791	631.632.1473	<a href="mailto:andym22@optonline.net">andym22@optonline.net</a>
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Chapter Technology Transfer (CTTC)	Don Kane, P.E.	631.737.9170	631.737.9171	<a href="mailto:dkane@csfllc.com">dkane@csfllc.com</a>
Newsletter Editor	Liset Cordero	212.643.9055	212.643.0503	<a href="mailto:liset.cordero@mgepc.net">liset.cordero@mgepc.net</a>
Research Promotion	Richard Rosner, P.E.	631.737.9170	631.737.9171	<a href="mailto:rrosner@csfllc.com">rrosner@csfllc.com</a>
Historian	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	<a href="mailto:thomas.fields@mgepc.net">thomas.fields@mgepc.net</a>
Student Activities	Richard Halley	718.269.3809	718.269.3725	<a href="mailto:rchalley@trane.com">rchalley@trane.com</a>
Young Engineers in Training	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	<a href="mailto:andrew.dubel@leapc.com">andrew.dubel@leapc.com</a>
Webmaster	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	<a href="mailto:thomas.fields@mgepc.net">thomas.fields@mgepc.net</a>
Nominating	Michael Gerazounis, P.E., LEED AP	212.643.9055	212.643.0503	<a href="mailto:michael.gerazounis@mgepc.net">michael.gerazounis@mgepc.net</a>
Reception & Attendance	Lee Feigenbaum, LEED AP BD+C	516.558.2075		<a href="mailto:lfeigenbaum@emcor.net">lfeigenbaum@emcor.net</a>
PR & Engineering Joint Council of LI	Brian Simkins, LEED AP	203.261.8100	203.261.1981	<a href="mailto:bsimkins@accuspecinc.com">bsimkins@accuspecinc.com</a>
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	<a href="mailto:peter.gerazounis@mgepc.net">peter.gerazounis@mgepc.net</a> <a href="mailto:sfriedman@akfgroup.com">sfriedman@akfgroup.com</a>

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## 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	2011	Carolyn Arote



## PAOE POINTS FOR 2012/2013

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	CTTC	Chapter PAOE Totals
301	300	240	565	350	775	775	3,055

## Chapter Monthly Meeting - Program for 2012/2013

<b>September 11, 2012</b> * At Westbury Manor  Dinner Presentation – International Building Code Requirements for Design & Installation of HVAC&R Components from the Effects of Wind, Seismic, Snow & Flood Loads! Presenter: Richard Berger <b>**1 PDH**</b>	<b>February 2013</b> <b>NATIONAL ENGINEERS WEEK</b> Feb 17 through Feb 23
<b>October 9, 2012</b> * At Westbury Manor  Dinner Presentation—ASHRAE 52.2, Testing Air Filters on Particle Size versus Efficiency Presenter: Danja McMillan <b>**1 PDH**</b> <b>Resource Promotion Night</b> <i>Back to Basic Session I -  Fundamentals of Pumping System Design</i> <b>**1 PDH**</b>	<b>March 12, 2013</b> * At Westbury Manor Dinner Presentation—Condensing Boilers Designs and Applications Presenter: Ian Rowburrey <b>**1 PDH**</b> <b>YEA Night</b> <i>Back to Basic Session III -  The Rise of Variable Flow Primary and Fall of  Primary/Secondary/Tertiary Pumping Systems</i> <b>**1 PDH**</b>
<b>November 13, 2012</b> * At Westbury Manor  Dinner Presentation-- HVAC Air Duct Leakage Testing and Testing Methodology Presenter: Lee Feigenbaum, LEED AP BD+C <b>**1 PDH**</b> <b>JOINT MEETING WITH SMACNA</b> Student Activities Night, Membership Promotion, & YEA Night	<b>April 9, 2013</b> <b>ANNUAL FIELD TRIP</b> Sysco Long Island 199 Lowell Avenue Central Islip, NY 11722 400,000 sq. ft. Food Distributor including 88,000 sq. ft. of Freezer, Ammonia Refrigeration Plant and Hydrogen Fueled Fork Lift Trucks (Indoor Air Quality) Dinner to follow
<b>December 11, 2012</b>  Holiday Party - Westbury Manor	<b>May 6<sup>th</sup>, 2013</b> * Cherry Valley Club, Garden City, NY <b>ANNUAL GOLF OUTING</b>
<b>January 8, 2013</b> * At Westbury Manor  Dinner Presentation—Dispute Resolution such as Mediation, Arbitration and Litigation, the pros and cons of each and what to expect Presenter: Michael D. Ganz, Esq. <b>**1 PDH**</b> <i>Back to Basic Session II -  Design and Analysis of Pumping System Design</i> <b>**1 PDH**</b>	<b>May 14<sup>th</sup>, 2013</b> * At Westbury Manor Dinner Presentation—Update on Refrigerants: Past, Present and Future Presenter: Eckhard A. Groll, Dr. Eng. <b>**1 PDH**</b> <b>Student Activities Night</b> <b>Refrigeration Night</b>
<b>January 2013</b>  ASHRAE Winter Meeting Jan 28-30 Convention Center, Dallas	<b>June 11, 2013</b> * At Westbury Manor <b>PAST PRESIDENTS &amp; OFFICER INSTALLATION</b>
<b>February 12, 2013</b> * At Westbury Manor Dinner Presentation—Introduction to BEQ Labeling Program Presenter: T. David Underwood P. Eng <b>Joint Meeting with USGBC</b> <b>Resource Promotion Night</b> <b>Membership Promotion Night</b> <b>**1 AIA**</b>	

## Board of Governors Meeting Minutes

**Attendees:** Brian Simkins-President; Andy Manos – President Elect; Richard L. Rosner – V. President; Tom Fields – Financial Secretary; Charles Lesniak – Treasurer; Don Kane – Secretary; Andrew Dubel – BOG; Carolyn Arote – BOG-Past President

The meeting was called to order at 5:00pm by Brian Simkins – President, at Westbury Manor

**Secretary:**

Don Kane noted that there were no corrections and/or additions to the minutes, as published in the Sounder. Minutes were approved as published.

**President:**

Brian Simkins reminded all to update their PAOE points on-line. He noted that the deadline for the **Vendor Book** is approaching (January 15<sup>th</sup>) and everyone should try to talk-up this publication as it is a real useful reference and is a source of Chapter funding. All BOG members who have **MBO's** should review them and ensure that they are on track with meeting them. Some discussion has taken place with **EJCLI** regarding cross-publicizing of **EJCLI** and **ASHRAE** activities as a means to reach out to additional individuals. Brian asked that all articles and information for the **Sounder** be submitted in a timely manner. Similarly, we need to get current info for our **website** to the webmaster promptly. A review of our **budget** underscores the need for additional fund raising and we should be actively soliciting sponsorship for meeting cocktail hours and/or “vendor nights”.

**President-Elect/Programs:**

Andy Manos reported that David Underwood will be our featured speaker at the February meeting, making a presentation on **ASHRAE bEQ**. This will be a joint meeting with **USGBC** and Andy will coordinate. Andy will assist Charlie Lesniak with newsletter invoices.

**Chapter Technology Transfer:**

Don Kane noted that he had recently confirmed with Sysco the **April Field Trip** date and will be in communication with them to facilitate the submission of the technical part of the presentation for continuing education credits. The Field Trip will also be a **Refrigeration Night**. *ASHRAE Insights* listed a Long Island member who had obtained HFDP certification.

**Treasurer:**

Charlie Lesniak reported that there is a balance of \$8,453.89 on account. He has spoken to our accountant and all outstanding income **tax** issues from last year are to be resolved by the end of January. A separate account needs to be established for costs which will be incurred for CRC planning. He needs to find out if **ASHRAE** provides any advance funding for chapters who host the CRC.

**Historian:**

Tom Fields stated that a Past-President interview should be ready for the next Sounder. The **History Board Display** will be brought to the February meeting (Don Kane presently has the boards and will bring them to the meeting).

**Research Promotion:**

Richard Rosner reported that we presently have received or are committed to receive \$8,165 towards our goal of \$14,681. February will be an “**RP**” **night**. Response to the solicitation for inclusion in the **Vendor Book** has been very positive and he will continue following up until the publication deadline is reached. Rich also noted that, in keeping with our “Lighthouse” theme, if anyone has a picture of a Long Island Lighthouse which they want to be considered for the Vendor Book cover, it should be submitted to him for review.

## Board of Governors Meeting Minutes (Cont'd. from Page 5)

### Membership Promotion:

Charlie Lesniak will follow up with EJCLI and provide contact information to Liset for future joint mailings. Charlie noted that the latest membership report indicates a total Chapter membership of 297, which includes 15 new members, and 30 YEA members. There has been one grade advancement and 27 individuals who have not yet renewed.

**YEA (Andrew Dubel):** There was a brief discussion regarding a possible Chapter fishing trip. In order to keep costs reasonable, a half-day trip was suggested, with point of departure being either Captree or Freeport. It was noted that Freeport could be reached by mass transit (LIRR + bus/taxi) which may be advantageous for some.

**Web Master:** Tom Fields will follow up on the updating of the website.

**Golf:** May 6<sup>th</sup>, 2013 Cherry Valley....Date has been confirmed.

**Old Business:** None

**New Business:** None

**Time/Place of next BOG Meeting– February 12th, 2012. Westbury Manor – Joint meeting with USGBC**

### Motion to Adjourn

The meeting was adjourned at 6:00pm

Respectfully submitted,

**Donald W. Kane, PE**  
**Chapter Secretary**





## February Program



### Dinner Presentation

#### *“Introduction to BEQ Labeling Program”*

*Presented by*

**T. David Underwood P. Eng**  
**Fellow Life Member**  
**Isotherm Engineering Ltd.**



**Attendees  
Will Earn  
1 PDH!**

<b>DATE:</b>	<b>TUESDAY, FEBRUARY 12, 2013</b>		
<b>Time:</b>	6:00 PM - Cocktails and Hors D'oeuvres 6:45 PM - Dinner Presentations 8:45 PM - Conclusion	<b>Fee:</b>	\$ 40.00 Member \$ 45.00 Guest \$ 15.00 Student
<b>Location:</b>	<b>WESTBURY MANOR</b> (516) 333-7117 Jericho Tpke (South Side), 3/10 of mile east from Glen Cove Rd., Nassau County, NY. <b>Directions are posted at @ <a href="http://www.ashraeli.org">www.ashraeli.org</a>.</b>		
<b>Presentation:</b>	bEQ labeling has two aspects “In Operation” and “As Designed”. This discussion will cover the advantages and disadvantages of both these programs from a grass roots member point of view. There will be some discussion of local marketing of these programs in a fully developed form and the value of using both aspects together. For example in a real estate portfolio, there are opportunities to assist owners in containing energy costs with subsequent indoor air quality improvements. Qualifications for BEAP's and BEMP's will be covered with emphasis on value ASHRAE brings to its members.  <b>All attendees will receive 1 PDH.</b>		
<b>About our Speaker:</b>	<b>T. David Underwood P. Eng.</b> - Fellow Life Member, ASHRAE-Certified Commissioning Process Management Professional, is retired and resides in Oakville, Ontario, Canada. Mr. Underwood founded Isotherm Engineering Ltd. in 1975. The corporation is still active in the HVAC&R industry. He was a volunteer Board member of ORAC (The Ontario Refrigeration and Air Conditioning Contractors Association) for many years and served in all executive positions. As a former vice president of ASHRAE, Underwood was a member of the Board of Directors and the Executive committee and served as chair of Publishing and Education Council. He has received the Exceptional Service Award and the William J. Collins, Jr. Research Promotion Award. He was awarded a Bachelor of Science in civil engineering from the University of Manitoba in 1964.		

CHAPTER MAY NOT ACT FOR SOCIETY

An International Organization

## Research Promotion

Our chapter is expected to raise \$14,681 or more towards the overall RP goal and we have raised \$6240 to date, even with super storm Sandy holding us back. I would like to thank the companies who have participated in the annual 2013 Product Directory of Manufacturers and their Representatives. For those who have not sent in payment please do at this time. The space is now closed and the 2013 directory will be back from the printer shortly. The directory will be made available to all ASHRAE and non-ASHRAE members at no-cost and will be available at our monthly meetings starting in March or directly from our web-site at <http://ashraeli.org/productdirectory.html>. 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. The listings are not to be considered as advertising or endorsement by ASHRAE of any product, manufacturer or representative.

I am hoping we 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. Please help support ASHRAE in any way you can. Should your company like to have a product showcase during the cocktail hour at our meetings please let me know and we will set it up.

### 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](http://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 - Energy Efficient Buildings - How Far Have We Come?

It is sometimes difficult to realize that in the span of less than 50 years, we have seen the environmental control of buildings progress from coal fired, hand stoked furnaces (some with only convective airflow to a centrally located grille in the floor) to modern computer controlled, networked, "cloud-compatible" edifices whose heating and cooling can be monitored and controlled from one's smart phone or pad-computer. Most of us who grew up on Long Island in the midst of the post-war housing boom certainly don't remember having to stoke coal furnaces, more likely remembering the deliveries of four cents per gallon heating oil to satisfy the fuel needs of Mr. Levitt's low-Yorks, (supplying the copper serpentine that was later, in many cases, to become a sub-surface irrigation system) or a more conventional boiler feeding a combination of fin-tube or cast-iron radiation in those houses built a few years later. Yet, while all this new construction was taking place, few, if any, existing structures (unless they were unfortunate enough to be located where our network of parkways, bridges and expressways were destined to be built) were being torn down. New tenants filled the old buildings, as the wave of migration eastward to Nassau and Suffolk Counties began. These old buildings had the same heating plant (cooling then was an open window and a fan) that was installed in the early 1900's when the buildings were built. Regardless of how clean and efficient (remember this was the 40's and 50's) new oil fired boilers were, there were still a plethora of aging, dirty, inefficient, coal-fired boilers in use that didn't "go away" for many years to come.

Fast-forward to today. As noted earlier, we have advanced the state-of-the-art of HVAC control to the point that we can monitor building response in real time, providing responses to, theoretically, maintain a high level of comfort while minimizing the energy required to do so. We have programs, such as LEED® and Energy-Star, for evaluating the materials and designs used to build high performance buildings (or to renovate existing ones). We even have local government regulations requiring energy audits, retro-commissioning and reporting to account for the energy usage of buildings. And yet....when the audits are conducted and the results tallied we are being told that, in many cases, many of the newer or recently retrofitted buildings, even ones that have met Energy-Star and/or LEED requirements, are not performing as well as predicted. What is the problem? More importantly, what can be done to achieve the anticipated efficiencies? First and foremost, there is no magical formula, no one-size fits all approach. In the haste to be able to claim the incorporation of the most green technology, the basics of good design are sometimes forgotten. If you install the most efficient ice-tank thermal storage system for a facility that is located in a heating dominated area you will not realize the anticipated benefits. If the facility is one that is used minimally in the summer months, the results will be even less rewarding. Similarly, if you are going to specify condensing boilers, make sure that they will be operating in the condensing mode. Don't design the system to have supply and return water temperatures that would be used with a non-condensing boiler, or you will be operating 10-15% less efficient than the specification would have led one to expect. If you are installing a system designed to heat one part of the building with the "free heat" from cooling the other part of the building, make sure that during the normal hours of operation, simultaneous cooling and heating loads will exist. As siting and fenestration is more and more determined by standard or regulation, the instances of simultaneous heating and cooling loads may be minimized. Don't forget the basics of design when selecting materials, equipment and processes. Just because it is "green" is not a justification for use. Solvent adhesives and cleaners with low VOC numbers are considered "green", however, included in this category are acetone containing materials. Acetone is considered a low VOC substance (exempted due to its low photo-reactivity), yet is classified as a toxin for several types of organ damage.

What else can be done in the design phase of a project? Understand how the installed system will be operated and maintained (or not maintained, as the case may be). If a BIM system is going to be part of the design, ensure that it is being used to its fullest capability. Make provision, for example, to monitor air filter restriction and coil restriction for individual water sourced heat pump units. A plugged filter, or use of an inefficient filter resulting in a plugged coil, can result in both immediate and long term effects ranging from discomfort to equipment damage. Restrict the temperature range that a room temperature sensor/control can control ( $\pm$  3-5 degrees) to prevent overheating or overcooling an area.

Assuming that all equipment and materials have been selected with adequate consideration, the design has taken into account all conditions of use and maintenance, what remains? Perhaps the most important part of the puzzle. The edu-

**CTTC (Cont'd. from Page 9)**

cation of the user and providing a path of communication. The user may be the resident of a hotel room, an office worker or it could be the personnel assigned to operate the heating/cooling plant in a place of higher education. If the person sitting at a desk all day is continually too hot or too cold and they do not "close the loop" and inform someone who can correct the issue, they will usually attempt to solve the problem themselves. This leads to many space heaters located under desks, windows open in the middle of winter and fans located in copier rooms. This doesn't solve the problem, it only shifts it to another location or individual. If the operators of a facility do not fully understand how a system works, but they know that a jumper connected between pin 1 and pin 3 on a control board will make the heat come on, they will have a tendency to routinely do so. This is an area in which self-diagnostics and displays could be improved upon by suppliers of equipment to permit operation and troubleshooting without having a printed manual or instruction book on hand. While the technology employed for HVAC equipment has advanced by leaps and bounds, the training of building personnel in many instances has not kept pace. Further, in many situations, turnover in personnel results in the loss of trained personnel, exacerbating the problem. Much of the needed diagnostic capability could be addressed by the use of smart phones and pad computers as diagnostic tools. What would make this even more useful would be if a standard diagnostic interface connection and core communication capability (perhaps using a BACNET or LonTalk protocol). This would do for HVAC maintenance/repair what the OBDII standard has done for automobiles. Hopefully, the HVAC community can agree on a standard without having big brother enact one, as occurred with OBDII!

Yet, even if all of these issues can be addressed and newer, high-tech, systems operate as designed, what of the many legacy systems (perhaps state-of-the-art when they were replacing hand-stoked, coal fired units) which will remain? Many of these facilities will be ones for which replacement with state-of-the-art equipment will never be economically viable. Perhaps (and this is where technology and sociology will have to join hands) the industry needs to be pursuing low-tech ways to bring energy efficiency to the multitude of legacy buildings.

So...how far have we come? From the coal fired steam boiler in an apartment house, when the lack of sufficient heat was annunciated by the resident banging on the pipes....responded to by the "super" who would stoke the fire or crank open the valve, to satisfy the need for heat.....to the present day, when inadequacies of the modern, computer-controlled HVAC system have to be addressed by space heaters, fans and open windows.....when most buildings are old enough to not have the latest controls and equipment and many never will.....how far have we come? I'll let you decide.

***Don Kane, P.E.***  
***CTTC Chair***



## Membership

I would like to say hello to all our new members who signed up in December and January and all our returning members!

February is an exciting month for engineers here in Long Island. First of its our joint meeting with the USGBC and our membership promotion at our ASHRAE chapter, so if you would like to join our chapter this is a great night to do it. Or to make your life easy you can go to the ASHRAE website at [www.ashrae.org](http://www.ashrae.org) and click on the link "join or login" and click the button "join now". Secondly February hosts National Engineers Week which is the week of the 17<sup>th</sup>. The Engineering Joint Council of Long Island (EJCLI) will be holding seminars on this week, see their website <http://ejcli.org/> for further information. One of our past presidents Ray Schmitt will be giving a seminar on VRF technologies.

**To join ASHRAE you do not even have to be an engineer. We have many members that just want to share the common goal of designing and operating sustainable buildings. So with this ASHRAE is looking to include all trades and professions so anyone who wants to be involved in the building sciences can join ASHRAE.**

There are many perks of being an ASHRAE member. With your membership you get discounts on the many publications and standards that ASHRAE produces. You also get a discount at our monthly meetings where you can earn between 1 and 2 PDH credits, enjoy great company, and delicious food. ASHRAE is multinational society with over 51,000 members so you have the ability to add a lot of people to your Facebook friends list. Just kidding, ASHRAE is a great networking opportunity at both the regional levels and at society levels. And ASHRAE is a great place to help engineers new to our field to find their place in it. Another perk is the indisposale 4 books ASHRAE provides us with when renewing our membership.

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.

**Charles Lesniak, P.E.**  
**Membership Chairman**

## Student Activities

February meeting marks the halfway point of winter and we start the downhill heading towards spring. I am personally very ready for the end of winter and can't wait for the spring and summer activities. For students this marks the time when they start making plans for the end of the school year and what they will be doing next year. As a reminder ASHRAE Long Island does give out Scholarships to students planning to further their educational careers. I am now taking application for this year's Scholarships from several schools. If you know a student that wants to submit an application please have them contact me at [rchalley@trane.com](mailto:rchalley@trane.com) and I will be happy to e-mail one out.

Our next student activity night is Tuesday May 7<sup>th</sup> we are looking build on the success from our November meeting look forward to another good turnout from our local students. If you know anyone that would like to attend please have them contact me at the address above. There is lots of other ASHRAE Student at the Student Zone, Just Scan the attached link with your smart phone and it will take you right there.



As always we are collecting old ASHRAE Hand Books that you no longer for distribution to our student members. If you have a Hand Book in reasonable condition I will be collecting them at our next meeting.

**Richard Halley**  
**Student Activities Committee Chair**



## Engineers Joint Committee of LI - Engineers Week Seminar Series



### Engineers Joint Committee of Long Island

*Andrew S. Haimes, P.E., F.NSPE, Co-Chair*

*Anthony Cacioppo, P.E., Co-Chair*

## ENGINEERS WEEK SEMINAR SERIES

*Tuesday, February 12, 2013*

**Place:** **Dave & Busters** • 261 Airport Plaza Blvd., Farmingdale, NY (631) 249-0708  
www.daveandbusters.com

<b>Program:</b>	<b>8:00 am – 9:00 am</b>	<b>Registration &amp; Continental Breakfast</b>
	<b>9:00 am – 10:00 am</b>	<b>Morning Seminars</b>
	<b>10:00 am – 10:15 am</b>	<b>Break</b>
	<b>10:15 am – 12:15 pm</b>	<b>Morning Seminars Cont'd.</b>
	<b>12:15 pm – 1:15 pm</b>	<b>Lunch</b>
	<b>1:15 pm – 3:15 pm</b>	<b>Afternoon Seminars</b>
	<b>3:15 pm – 3:30 pm</b>	<b>Break</b>
	<b>3:30 pm – 4:30 pm</b>	<b>Afternoon Seminars Cont'd.</b>

### Seminars & Descriptions

**“Small Modular Nuclear Reactors” (1 PDH) 9:00am – 10:00am**

**Presented by: David J. Diamond, PhD – Brookhaven Nat'l Lab, Nuclear Energy and Infrastructure Systems Division**

Small modular reactors (SMRs) are defined as having electrical outputs of 300 MW or less. They have the advantage of requiring less capital outlay for a utility relative to the large nuclear power plants that are now being constructed. Furthermore, they are more in line with the grid in smaller markets. These advantages are discussed in this presentation along with how the vendors deal with the cost per kWh and safety issues. Examples of several designs called integrated pressurized water reactors are explained. The related activities of the Department of Energy, the Nuclear Regulatory Commission and interested electric utilities are also provided.

**“Purge & Pressurization for Hazardous Locations” (2 PDH) 10:15am – 12:15pm**

**Presented by: Jerry West, Regional Sales Manager – Expo Technologies**

As this seminar answers the question “What does ‘Purging + Pressurization’ mean?”, we will discuss the following topics: Primer on hazardous locations, Explosive environments, Classified areas; Methods of protection for electrical equipment & systems; North American and International standards; Types X, Y and Z purge systems for Class I gaseous locations & pressurization systems for Class II dust locations; Comparison of purge + pressurizing systems to “other” methods of protection (e.g. explosion proof, intrinsic safety, etc.); Leakage compensation vs. continuous flow purge systems, including major features & benefits; Applications in oil, gas, pharmaceutical, biotech industries and more; Pressurized Enclosures, motor purge systems and complete room pressurization systems.

## Engineers Joint Committee of LI - Engineers Week Seminar Series

### ***“Testing of Electrical Systems” (2 PDH) 1:15pm – 3:15pm***

**Presented by: Ronald W. Quade, P.E., Chair of N. North Jersey Section – IEEE PES & Megger**

We expect more and more from our electrical power systems even as we push them into longer and greater use than ever anticipated. We continue to put new demands on these systems – harmonic loads, distributed interconnections, contingency overloads, etc. Gone are the days of strictly central generation with dispatch unidirectionally toward loads centers. Historically, electrical power systems and their components were overbuilt, but today they are built to exacting standards based upon lowest first cost. As such, maintenance of old and new equipment alike is critical to their safe and reliable operation. Society has come to demand perfect power reliability, and worker safety (i.e. arc flash) has become paramount. An overview of some of the testing methods required to maintain electrical power equipment will be presented.

### ***“Libertystone Hardscaping Systems” (1 PDH) 9:00am – 10:00am***

**Presented by: Vern Duick, President – Cornerstone Wall Solutions Inc.**

How to utilize some of the industry's most experienced technicians to provide the highest quality, fully tumbled paving stones and retaining wall products. Topics include: Design solutions such as gravity, geogrid, steel ladders, cantilevered, soil nailing and plantable walls; creative installation ideas for terraces, steps, through-wall-details, top-of-wall details, inside/outside curves and inside/outside corners. Applications will be discussed for DOT, commercial, multi residential and residential projects. Onsite QA/QC will be discussed to avoid failures for engineers and contractors.

### ***“Masonry Movement Joints” (1 PDH) 10:15am – 11:15pm***

**Presented by: Keith F. Lashway, P.E., Director of Industry Development & Technical Services – International Masonry Institute**

This presentation addresses the movement characteristics of vertical masonry wall systems. Focus is on best practice for design and construction of expansion and control joints to accommodate and/or restrict masonry material movement. It does not address sealant or backer rod selection. Learn masonry movement joint definitions. Discover how different masonry materials move. Understand the purpose of masonry movement joints. Acquire knowledge to design and detail masonry movement control strategies.

### ***“Masonry Restoration” (1 PDH) 11:15pm – 12:15pm***

**Presented by: Keith F. Lashway, P.E., Director of Industry Development & Technical Services – International Masonry Institute**

This program provides an overview of the importance of the restoration industry today and focuses on the following learning objectives: Basic types of building failure, the relationship of time versus deterioration, the appropriate levels of intervention, classifying required repairs, basic requirements for condition assessment studies, minimum inspection requirements, and the “green” aspects of masonry building restoration.



## Engineers Joint Committee of LI - Engineers Week Seminar Series

### ***“Fire Rated Assemblies & Firestop Techniques in Modern Building Construction”***

**(2 PDH) 1:15am – 3:15pm**

**Presented by: Randy Berkowitz, Fire Protection Specialist – Hilti Corporation**

Hilti, in conjunction with UL, has developed a program of fire protection science with respect to materials & construction methods for mitigating fire propagation in buildings. The in-house program has created an organization with significant expertise in construction and building manufacturing with a proactive approach to firestopping. This Life Safety seminar specifically addresses the following issues: The importance of firestopping; Potential hazards in your working environment; Examples and consequences of not firestopping; New changes in the Building Codes (Firestopping requirements are more stringent than ever); How to inspect for correct firestop applications; A review of proper installation guidelines.

### ***“Masonry Quality Assurance” (1 PDH) 3:30pm – 4:30pm***

**Presented by: Keith F. Lashway, P.E., Director of Industry Development & Technical Services – International Masonry Institute**

This program analyzes a masonry wall from the vantage point of quality control in both design and construction. It covers ASTM standards, brick and block section, mortar types and how they relate to quality control of masonry, and a detailed discussion of movement control for masonry. The program also looks at acceptable tolerances in materials and workmanship.

### ***“Building Energy Quotient Labeling Program” (1 PDH) 9:00am – 10:00am***

**Presented by: T. David Underwood, P.Eng., FASHRAE, Founder, Isotherm Engineering Ltd.**

BEQ labeling has two aspects: “In Operation” and “As Designed”. This discussion will cover the advantages and disadvantages of both these programs from a grass roots member point of view. There will be some discussion of local marketing of these programs in a fully developed form and the value of using both aspects together. For example in a real estate portfolio, there are opportunities to assist owners in containing energy costs with subsequent indoor air quality improvements. Qualifications for BEAP’s and BEMP’s will be covered with emphasis on value ASHRAE brings to its members.

### ***“Variable Refrigerant Flow (VRF) Heat Pump Systems” (2 PDH) 10:15am – 12:15pm***

**Presented by: Rav Schmitt, HVAC Dept. Manager – Wales-Darby**

The goal of this presentation is to enable the attendees to understand the operation and installation of Variable Refrigerant Flow (VRF) Heat Pump Systems. VRF System operation concepts and comparisons to Conventional HVAC Systems will be reviewed. VRF Heat Pump Systems are relatively new to the USA; however, they were introduced in Japan in the 1980’s. Like all equipment and systems, there have been continuous improvements / enhancements that have made VRF systems highly energy efficient and very reliable. VRF Heat Pump Systems provide either Mechanical Cooling or Reverse Cycle Mechanical Heating similar to a “Conventional” Two Pipe Chilled Water / Hot Water Systems to condition occupied spaces while providing multiple thermostatic zones of comfort – this is accomplished via zone dedicated indoor units that are either ductless or ducted. The installation and operational benefits will be discussed. The design approach and some of the methods available for introducing fresh air into the VRF system design will also be discussed.



## Engineers Joint Committee of LI - Engineers Week Seminar Series

### ***“Process Chart / Value Stream Mapping” (2 PDH) 1:15pm – 3:15pm***

**Presented by: Stan Stone, CEO & Founder – Greystone Business Solutions**

Value stream mapping is a lean manufacturing technique used to analyze and design the flow of materials and information required to bring a product or service to a consumer. At Toyota, where the technique originated, it is known as "material and information flow mapping". It can be applied to nearly any value chain, not just those related to manufacturing. The technique has also been applied to logistics, supply chain, service related industries, healthcare, software development, product development, and administrative and office processes.

This course teaches attendees how to utilize the powerful value stream mapping process to identify waste within a process (manufacturing / office / non-manufacturing process). Through the application of these techniques, attendees learn how to identify and eliminate waste, shorten lead times, and focus on true “value added” activities. This is a “hands on” interactive training session in which attendees shall participate in the Value Stream Mapping of a process selected by the instructor.

### **SCHEDULE**

	Room A	Room B	Room C
9:00a-10:00a 1 hr	Small Modular Nuclear Reactors	Libertystone Hardscaping Systems	Building Energy Quotient Labeling Systems
10:15a-12:15p 2 hr	Purge & Pressurization for Hazardous Locations	Masonry Movement Joints	Variable Refrigerant Flow (VRF) Heat Pump Systems
		Masonry Restoration	
12:15p-1:15p	LUNCH		
1:15p-3:15p 2 hr	Testing of Electrical Systems	Fire Rated Assemblies & Firestopping	Process Chart / Value Stream Mapping
3:30p-4:30p 1 hr		Masonry Quality Assurance	

# Engineers Joint Committee of LI - Engineers Week Seminar Series



## Engineers Joint Committee of Long Island

*Andrew S. Haimes, P.E., F.NSPE, Co-Chair*

*Anthony Cacioppo, P.E., Co-Chair*

## ENGINEERS WEEK SEMINAR SERIES

***Tuesday, February 12, 2013***

**Dave & Busters • 261 Airport Plaza Blvd., Farmingdale, NY (631) 249-0708**

**To register, complete and return this form with payment by February 8, 2013 to: Andrew S. Haimes, PE, 172 Sherry St, East Islip, NY 11730. Ph: 631-859-5190. Email questions to: [ashaimes@optonline.net](mailto:ashaimes@optonline.net)**

**ALL FIELDS MUST BE COMPLETED. PRINT NEATLY. CHECK ALL SEMINARS YOU WISH TO ATTEND.**

**Fee:** \_\_\_\_\_ **\$110 for full day (5 or 6 PDH); includes lunch**  
 \_\_\_\_\_ **\$75 for half day (3 or fewer PDH); includes lunch**

**NO CREDIT CARDS OR PURCHASE ORDERS ACCEPTED.**

- |                         |   |
|-------------------------|---|
| _____ 9:00am – 10:00am  | “Small Modular Reactors” (1 PDH)                          |
| _____ 10:15am – 12:15pm | “Purge & Pressurizations for Hazardous Locations” (2 PDH) |
| _____ 1:15pm – 3:15pm   | “Testing of Electrical Systems” (2 PDH)                   |
| _____ 9:00am – 10:00am  | “Libertystone Hardscaping Systems” (1 PDH)                |
| _____ 10:15pm – 11:15am | “Masonry Movement Joints” (1 PDH)                         |
| _____ 11:15am – 12:15pm | “Masonry Restoration” (1 PDH)                             |
| _____ 1:15pm – 3:15pm   | “Fire Rated Assemblies & Firestopping” (2 PDH)            |
| _____ 3:30pm – 4:30pm   | “Masonry Quality Assurance” (1 PDH)                       |
| _____ 9:00am – 10:00pm  | “Building Energy Quotient Labeling Systems” (1 PDH)       |
| _____ 10:15am – 12:15pm | “VRF Heat Pump Systems” (2 PDH)                           |
| _____ 2:15pm – 3:15pm   | “Process Chart / Value Stream Mapping” (2 PDH)            |

**Total PDH** \_\_\_\_\_ **Total Amount Enclosed \$** \_\_\_\_\_

**Make check payable to: Engineers Joint Committee of LI**

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 American Society of Heating Refrigeration  
 & Air Conditioning Engineers  
 American Society of Mechanical Engineers  
 Society of Women Engineers  
 NY Association of Consulting Engineers  
 Society of Manufacturing Engineers

Farmingdale State University  
 Stony Brook University  
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 American Society for Quality



## Assessing Building Energy Performance

[www.ashrae.org/abepwebcast](http://www.ashrae.org/abepwebcast)

Brought to you by the ASHRAE Chapter Technology Transfer Committee



### Presenters



Thomas E. Watson, ASHRAE President



Drury Crawley, Ph.D



Jim Kelsey, LEED AP, P.E., BEAP



Christopher Mathis

# Assessing Building Energy Performance:

*From Principles to Practice*

April 18, 2013 | 1:00 PM-4:00 PM EDT



## Assessing Building Energy Performance

### The Presenters



**Thomas E. Watson,**  
**ASHRAE President**



**Drury Crawley, Ph.D**



**Jim Kelsey, LEED AP, P.E., BEAP**



**Christopher Mathis**

### How a Webcast Works

A webcast is the streaming of audio and video to an audience over the internet. The "live" webcast will originate from Encompass Digital Media in Atlanta, GA. The internet link to access the webcast page will be emailed to participants when they complete registration. The link to access the webcast will be added approximately five (5) minutes prior to the start of the webcast.

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### Tentative Program

1:00 PM Part I – Opening Presentations, Q & A

2:30 PM Break

2:40 PM Part II – Roundtable Presentations, Q & A

3:55 PM Closing

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#### **Thomas E. Watson, ASHRAE President**

##### **Chief Engineer | Daikin McQuay | Staunton, VA**

Thomas Watson is the 2012-13 Society President. His presidential theme is "Broadening ASHRAE's Horizons", which emphasizes the role of ASHRAE members as leaders in the application of sustainable design and practices worldwide. Watson's past service includes Director-at-Large, ASHRAE Vice President, and ASHRAE Treasurer.

#### **Drury Crawley, Ph.D**

##### **Director of Building Performance | Bentley Systems | Washington, DC**

Drury Crawley has more than 30 years of experience in buildings energy efficiency, renewable energy, and sustainability. He is a registered architect and has a Ph.D in Mechanical Engineering. Crawley is Chair of ASHRAE Standard 169, and is a current and past member of numerous ASHRAE technical and standards committees.

#### **Jim Kelsey, LEED AP, PE, BEAP**

##### **Principal | kW Engineering | Oakland, CA**

Jim Kelsey is a licensed mechanical engineer and a LEED accredited professional. He has a B.S. in Physics and earned a Masters in Mechanical Engineering. Kelsey is interested in the technical side of energy efficiency to develop ways to save energy in commercial and industrial facilities. He is a voting member of ASHRAE Technical Committee 7.6 and Standard 100.

#### **Christopher Mathis**

##### **President | MC Squared | Asheville, NC**

Christopher Mathis has spent the past 30 years focusing on how buildings and building products perform. He earned a Bachelors degree in Physics and a Master of Science in Architecture Studies. Mathis has published a variety of technical papers and books, and is an active participant in ASHRAE Standard development.



## Assessing Building Energy Performance

### What Will I Learn?

After attending this webcast, participants will be able to:

- Explain the importance of building energy performance and its far-reaching implications in both new and existing buildings
- Assess various tools and approaches available for assessing building energy performance
- Recognize the opportunities that Assessing Building Energy Performance (ABEP) presents
- Explain the differences among, and application of, ASHRAE building audit levels 1, 2, and 3
- Recognize the different approaches, team skills, and knowledge needed to properly assess building energy performance in new and existing buildings

### How Do I Register?

You must register for the webcast. On-line registration for the Webcast begins **March 18, 2013** on our website at [www.ashrae.org/ABEPwebcast](http://www.ashrae.org/ABEPwebcast). There is no fee for registration. The registration form requests that you confirm your email address. Your email address will be required to login to the live webcast. The Internet link to access the webcast page will be emailed to participants when they complete registration.

### How can I participate?

- Host a webcast site for your colleagues.
- View the webcast at a site.
- Register to view the webcast on your PC

### Can I earn PDHs?

**YES!** Three (3) Professional Development Hours (PDHs) or Three (3) American Institute of Architects (AIA) Learning Units may be awarded to viewers who complete the **“Participant Reaction Form”** by **May 3, 2012**. Visit [www.ashrae.org/ABEPwebcast](http://www.ashrae.org/ABEPwebcast) for more information.

### Unable to Attend?

If you are unable to participate in the live webcast, it will be archived online for two weeks following

the broadcast. Registration will be necessary to view the archived program.

You may also purchase a DVD by:

- Calling ASHRAE Customer Service at 1-800-527-4723
- Sending an email to: [orders@ashrae.org](mailto:orders@ashrae.org)
- Going to the website at: [www.ashrae.org/Bookstore](http://www.ashrae.org/Bookstore)

### Test Your Equipment

When you complete registration, you will be given a link to test your system. This test will alert you immediately if your computer system is not properly set to see and hear a webcast.

### Group Logistics/Planning Checklist

#### *One to Two Months in Advance*

- Secure a viewing location. Know and coordinate your technical support staff names, phone numbers, and addresses.
- Promote the webcast program. Target a wide audience. Use the media kit at [www.ashrae.org/ABEPwebcast](http://www.ashrae.org/ABEPwebcast).
- Register online March 18, 2013 at [www.ashrae.org/ABEPwebcast](http://www.ashrae.org/ABEPwebcast) and save the link provided with your email confirmation to access the webcast.
- Reserve and test your equipment.
- Initiate and maintain an accurate participant headcount. Use a signup sheet or email RSVP. Site coordinators are responsible for maintaining accurate attendee headcount.
- Encourage participants to arrive at least 20 minutes prior to the webcast.

#### *Two Weeks Prior to the Webcast*

- Test your equipment. Confirm technical arrangements.
- Confirm headcount.

#### *One Day before the Webcast*

- Test your equipment.
- Inspect your viewing location.
- Check seating capacity and, if possible, reserve extra chairs.

## Assessing Building Energy Performance

- Expect participant questions and, if possible, provide 3"x 5" question cards.
- Talk to prospective participants to identify questions for the speakers.
- Make arrangements for coats and other personal items to be safely stored (closets, coat racks, coat hooks, etc.).

### *At Least One Hour Prior to the Webcast*

- Arrive at the site.
- Check with the technical support staff to ensure that equipment is operational.
- Notify your technical coordinator if problems occur with audio or video transmission, and if necessary, contact technical assistance. Resolve any communication or technical problems that may arise at your site.
- Welcome attendees and help them feel comfortable with the set-up ("housekeeping notes") and to field any last-minute questions. (Note: You may wish to include your own educational programming information as part of the schedule of events.)
- Remind viewers to be in their seats 10 minutes before the program begins.
- Plan to complete all activities before the webcast is scheduled to start. The Internet link to access the webcast page will be emailed to you when you complete registration. Site Coordinators should log on with their email address approximately ten (10) minutes prior to the start of the webcast.
- Check your program agenda so you are aware about 5 minutes ahead of time when the Question and Answer segments will begin. You should move to the side/front of the room so that the audience can see you.

### *During the Webcast*

- Have a technical support manager on site.
- Be prepared for troubleshooting and problem solving.
- Facilitate interaction.
- Email your questions to the webcast presenters using the interface on your screen.

- Download the program presentation slides. The link to download the slides will be accessible in the webcast viewing auditorium on April 18th.

### **Technical Personnel**

Please ensure that someone who knows how to operate the equipment is available prior to and during the webcast. The technician must be onsite by 11:00 a.m. EDT the day of the webcast to set up and test the equipment. Please use this time to resolve any technical problems that may arise.

#### *The technician should—*

- Recommend the type of equipment to be used.
- Set up any needed audio or video lines from the PC to the video projector and audio system. Make sure that the audio can be heard in all areas of the room.
- Be prepared to access the link to the webcast approximately ten (10) minutes prior to the start of the webcast.
- Set up a house microphone for in-room speeches and announcements at your site before, during, and after the webcast (optional).
- Assure that the room is dark enough for the attendees to easily see the video image on the screen.

### **Following the Webcast**

Direct participants to complete the "Participant Reaction Form" online at [www.ashrae.org/ABEPwebcast](http://www.ashrae.org/ABEPwebcast).

### **For More Information About the Webcast**

Visit [www.ashrae.org/ABEPwebcast](http://www.ashrae.org/ABEPwebcast) for information and complete details about the program, continuing education credits, speakers, and registration.

You can also scan this tag with your smart phone for more information.



If you have additional questions, contact us at: 678/539-1200, or [ashraewebcast@ashrae.org](mailto:ashraewebcast@ashrae.org)

## How can I become an ASHRAE Member?

We encourage you to join ASHRAE, the source of the latest technology for the built environment. To learn about ASHRAE membership, visit [www.ashrae.org/membership](http://www.ashrae.org/membership).



## Recent Tax Law Changes Affecting Charitable Giving



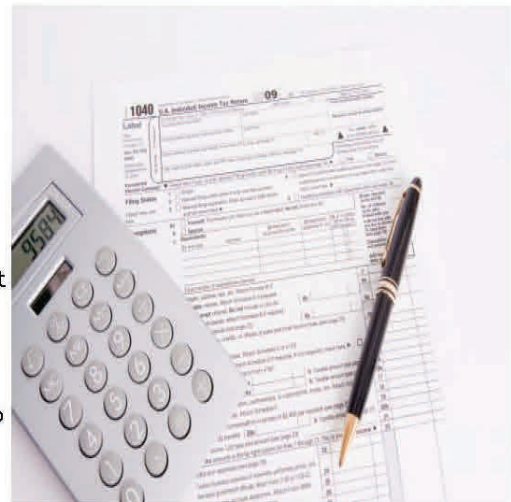
### Newsletter

Vol. 4 Issue 1

## Recent tax law changes affecting charitable giving

Recent changes in U.S. tax law will impact charitable contributions in 2013 and beyond. If you are a donor to the ASHRAE Foundation or support other charitable organizations, this information will be of use to you.

Very early in the New Year, Congress passed tax legislation meant to avert the 'fiscal cliff,' at least from a tax standpoint. The American Taxpayer Relief Act of 2012 (yes, even though enacted in 2013!) is a long, complex bill with many different tax provisions. The good news is that if you support ASHRAE Foundation or other charities, the legislation leaves intact the income tax charitable deduction. It also continues the ability to deduct charitable gifts of long-term appreciated assets (real estate, stocks, and mutual fund shares) at full market value.



Here is a brief summary of a few parts of this new law that you should know about:

- **Individual tax rates.** The lower Bush-era income tax and capital gains tax rates were made permanent for all but the highest income taxpayers. Those with taxable incomes over \$400,000 (\$450,000 for married taxpayers) will have a marginal income tax rate of 39.6% and a marginal capital gains tax rate of 20%. You can read more information about this provision by [clicking this link on New Incentives](#).
- **Medicare Surtax.** A new 3.8% surtax on net investment income, which includes realized capital gains, went into effect. Referred to by some as the Medicare surtax, this new tax went into effect on January 1, 2013 as part of the Affordable Care Act. It is imposed on top of other income taxes and kicks in when a taxpayer's modified adjusted gross income (MAGI) is above \$250,000 for joint returns and surviving spouses, less than that for other filers.
- **Itemized Deductions.** The law slightly reduces itemized deductions for high income taxpayers (by 3% for every dollar a taxpayer's income exceeds \$250,000 and \$300,000 for married taxpayers). Includes deductions for state taxes and mortgage interest as well as charitable deductions. You can read more about this provision by [clicking this link to Deduction Reduction](#).
- **Estate and Gift Tax.** The unprecedented exemption amount of \$5M (\$10M for married taxpayers), adjusted annually for inflation, was made permanent and portability remains. The marginal estate and gift tax rate increased from 35% to 40%.

We encourage you to talk with your tax advisor to learn more about the tax legislation and how it affects your unique situation.

If you would like more information on how you can benefit from working with the ASHRAE Foundation, contact Margaret Smith at [msmith@ashrae.org](mailto:msmith@ashrae.org), tel: 678-539-1201.

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Kevin Cirincione  
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