### **November 2014**



## THE LONG ISLAND SOUNDER



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**

Welcome to the November issue of the "Long Island Sounder". We thank all those who attended last month's meeting, it was a nice turn out. We were fortunate enough to have Evans Lizardos once again give us his "Back to Basics" Series with a presentation on Smoke Control System Design. His handouts make for excellent reference material. Thank you again to Gail O'Keefe who provided us a very informative presentation on Variable Frequency Drives and Motor Considerations.



We skipped my "Bright Ideas" session as we had two speakers lined up but we will be bringing in Lee Feigenbaum this month as the warm up speaker with a session on the Learning Curve. Our next bright ideas speaker should be in February and it could be you as we are still looking to fill that spot. Lee will hand off to Seymour Zimbalist of the OJM Group Financial Advisors who will give us some tax savings tips and is kind enough to sponsor our cocktail hour. Our friends from SMACNA will be joining us for this November meeting.

Our main speaker will be Eli Howard and he will be speaking to us on "HVAC Air Distribution System Efficiency." With ASHRAE's focus on hopes of a more energy efficient society certainly pushing the air through duct with less resistance can help get us there. This is another great topic which I am sure we will learn a lot from. You will receive one PDH for attending the session. Be sure to read this month's CTTC article about this topic by Don Kane. Don once again has been trying to write about the monthly lecture topic to help give a different view of the same subject.

As if the above wasn't enough we have a few other things to do this meeting. Since it is Veterans Day we are going to donate the funds collected from the 50-50 to the Wound-

ed Warriors Project. We hope to get a picture of all in ASHRAE who have served that night and we will send it off to the society for possible publishing in the journal. I wanted to ask those who could fit in them to wear their dress uniforms but the idea didn't seem popular. We will also be thanking our generous RP donors for their past gifts and have certificates and coins to hand out. It is also a student/membership promotion night which means we will be welcoming new members and encouraging upgrades of membership. So come early and stay late it will be an exciting night! We might even tell war stories after the meeting with a few drinks.

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

Thank you to all the volunteers and board members I appreciate all your time and dedication to our chapter and community. We look forward to seeing everyone as well as some new faces at the November meeting and thank you for your continued support of the Long Island Chapter of ASHRAE.

### **CHAPTER MONTHLY MEETING**

29-32

DATE:	Tuesday, November 11, 2014
TIME:	6:00 PM - Cocktails/Dinner 6:45 PM - Dinner Presentation 8:45 PM - Conclusion
LOCATION:	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
FEES: Members - Guest - Student -	\$40.00 \$45.00 \$15.00

Reservations requested, but not required.

Call (516) 333-7117

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

### 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
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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.

**BOG** October Meeting, Long Island Chapter Tuesday October 14th, 2014 5:00 – 6:00 Westbury Manor, Westbury, NY

Call to Order - At 5:15 by Chapter President Rich Rosner

First roll call showed 6 Members Present

Rich Rosner, Don Kane, Rich Halley, Charles Lesniak, Lee Feigenbaum, Frank Paradiso

### Secretary (Rich Halley)

September Minutes were approved as submitted

### **President (Richard Rosner)**

Rich Reported that we had an issue sending out the September Sounder due to an E-mail issue. Rich had to personally send it out and is looking into the fix so this does not happen again.

Rich emphasized how important it is to keep PAOE points up to date. The Long Island Chapter has a reputation of excellence in ASHRAE Region 1 and asked the BOG members to insure their points are being looked at monthly.

### President-Elect/Programs (Thomas Fields)

Tom is continuing to work on filling the rest of the speaking slots and will be complete soon

### **Chapter Technology Transfer (Don Kane)**

Don reported that we received approval for the refrigeration distinguished lecturer.

Don has received survey information back that the membership in general favors the double presentations during our meeting nights.

We are still looking to book our April field trip, Don is requesting suggestions from the board

Lastly we need to make sure that approved PDH credit for all presentations. The processing of requests for PIE approval has is now an on-line submission. Please sumbit requests for approval in a timely manner.

### **Treasurer (Andrew Dubel)**

Don and Andrew gave the report.

Balance in the General fund as of October 2014 \$12,881.17 expense of \$52.91 ending Balance \$12,828.26 Final budget review held for 30 days

The request for automatic three month extension for filing has been submitted to the IRS.

### **Grassroots Government Activities (Charles Lesniak)**

Charley Reported that his MBO's have been submitted and he is waiting for feedback from Region

### **Historian (Andrew Dubel)**

No Report

### **Honors and Awards Chair (TBD)**

No Report

### **Research Promotion (Andy Manos)**

No Report

### **Membership Promotion (Lee Feigenbaum)**

Lee Reported that membership has grown by 4 new members this month.

He is looking into the delinquency list and developing a phone call program to address this list to keep in to a minimum.

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

### **Student Activities (Richard Halley)**

Rich reported that the SA MBO's went out and were approved by Region. He also thanked Rich Rosner for input on this year's MBO's

Student Chapter Meetings were held in both Stony Brook and SCCC. Suffolk added 10 new members to the group. Next month is the first Student night and Rich requested that we get the word out. This is a great way to demonstrate the value of ASRAE to our future members

### **YEA (Frank Paradiso)**

Frank Reported that he is looking into attending Student Chapter Meetings to increase YEA Membership He is also looking into special events to attract members

### Web Master (Richard Rosner)

Looking for another way to get things updated faster

### **CRC 2017 (Richard Halley)**

Rich Halley Reported that he has started the search for possible locations to hold the CRC

### **Golf (Steven Friedman, Peter Gerazounis)**

No Report, next outing is scheduled for May 4<sup>th</sup>, 2015 Cherry Valley

### **Old Business**

- Ticket Books Books are still available and we are asking BOG to push them -Hold 30 Days
- Gift Cards Hold 30 Days

### **New Business**

- Look into chapter dues not being paid by some chapter members
- https://www.facebook.com/USGBC?mkt\_tok=3RkMMJWWfF9wsRonv6TPZKXonjHpfsX57%2B8IUKW1IMI% 2F0ER3fOvrPUfGjl4ASMdrl%2BSLDwEYGJlv6SgFT7bHMaNzyrgIUxg%3D
- Facebook page for ASHRAE LI
- Going to List Links to formula and/or apps for phones in next newsletters, send in what you have
- Newsletter articles due two weeks before next meeting or after last meeting.
- Islander Game Need to select date.

### **Second Roll Call**

Second roll call showed 8 Members Present

Rich Rosner, Don Kane, Andrew Dubel, Rich Halley, Charles Lesniak, Lee Feigenbaum, Frank Paradiso and Tom Fields

Motion to Adjourn by Charles Lesniak 2<sup>nd</sup> by Lee Feigenbaum

Time/Place of next BOG Meeting - November 11th, 2014. Westbury Manor

## **Chapter Monthly Meeting - Program for 2014/2015**

Chapter Monthly Meeting - Program to	r 2014/2015
September 9, 2014 * At Westbury Manor	February 2015
Dinner Presentation – New Advances in High Efficiency Cooling for Data Centers  **1 PDH**  Presenter - Dave Smith	NATIONAL ENGINEERS WEEK
Membership Promotion Night	
October 14, 2014 * At Westbury Manor	March 10, 2015 * At Westbury Manor
Dinner Presentation – Variable Frequency Drives and Motor Considerations **1 PDH** Presenter - Gail O'Keefe	Dinner Presentation – Plate/Frames **1 PDH** Presenter - Chris Abbot
Back to Basic Session I - Evans Lizardos **1 PDH**	Joint meeting with LI-Geo / YEA Night
"Smoke Purge System Design"	Back to Basic Session III – Evans Lizardos **1 PDH** "Energy Requirements for Different Refrigerant Systems"
November 11, 2014 * At Westbury Manor	April 14, 2015
Dinner Presentation – HVAC Air Distribution System Efficiency **1 PDH** Presenter - Eli Howard	ANNUAL FIELD TRIP - TBD
Resource Promotion Night Joint meeting with SMACNA Student Activities Night & YEA Night as well as Membership Promotion and Upgrade Night	
December 9, 2014 * At Westbury Manor	May 4, 2015 * Cherry Valley Club, Garden City, NY
HOLIDAY PARTY Free Buffet Dinner for Members	ANNUAL GOLF OUTING
January 13, 2015 * At Westbury Manor	May 12, 2015 * At Westbury Manor
Dinner Presentation – "The Steam Kettle" The Generation and Control of Steam for Space Heat and Process **1 PDH** Presenter - Paul Peck	Dinner Presentation – Responsible Use of Refrigerants Presenter - Julian de Bullet **1 PDH**
Back to Basic Session II - Evans Lizardos **1 PDH**	ASHRAE DISTINGUISHED LECTURER
"Pipe Designs for Control of Temperature and Flow in Water Systems"	Student Activities Night / Refrigeration Night
January 24-28, 2015	June 9, 2015 * At Westbury Manor
ASHRAE Winter Meeting Palmer House Hilton	Free Buffet Dinner for Members
Chicago, IL	PAST PRESIDENTS NIGHT & OFFICER INSTALLATION STUDENT SCHOLARSHIPS TO BE AWARDED ASHRAE History Quiz and prize Give-A-Ways
February 10, 2015 * At Westbury Manor	August 2015
Dinner Presentation – TBD ***1 PDH** Presenter - TBD	Chapter Regional Conference (CRC) Region I Syracuse Chapter Hosting August 20-22, 2015
Joint Meeting with USGBC and IFMA-LI Resource Promotion Night / Membership Promotion Night / Student Activities Night	

Lon	g Island Chapter -	Pas	t 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'Rouke
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								
350Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	сттс	GGAC	Chapter PAOE Totals
282	375	0	435	0	0	350	0	1,160

### **November Program**



## **Dinner Presentation**

"HVAC Air Distribution System Efficiency"

Presented by

Eli P. Howard, III SMACNA



DATE:	TUESDAY, NOVEMBER 11, 2014						
Time:	6:00 PM - Cocktails and Hors D'ouevres 6:45 PM - Dinner Presentations 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 shall discuss Best practices for delivering maximum efficiency in commercial air distribution systems through the proper selection/design/installation of duct fittings, duct type and system components.  Case studies will be highlighted to show cost-effective means/methods for delivering reduced system pressure loss, duct leakage and equipment leakage in typical commercial air distribution systems.  All attendees will receive 1 PDH.						
About our Speaker(s):	Eli P. Howard, III, SMACNA's Executive Director Technical Services has the overall responsibilities of the more than 30+ SMACNA Technical and ANSI Standards related to the HVAC and Sheet Metal Industry. He has additional responsibilities as SMACNA Liaison to NFPA 90A & 90B, CSI, USGBC, ICC and IAPMO. Prior to joining SMACNA he was Manager of Technical Program Development for NEMI providing technical assistance to contractors in energy engineering and IAQ technologies. His experience also includes work with Marriott International as Mechanical Engineer for design/construction of hotels in the United States, Hong Kong and Poland.  Mr. Howard holds a degree in Mechanical Engineering from Allegheny College.						

### Student Activities

Student meetings are underway at our SUNY Stony Brook and Suffolk Community College Chapters. This year we have we have welcomed 12 new student members so far and we look forward to adding more this month.

Our November meeting is designated a student activities night. We welcome our student members to this meeting. The dinner meeting will be free for those student members. In addition we will be supporting students who decide to join our chapter. Bring your filled out membership application for student membership! We look forward to seeing you. If you haven't seen it yet ASHRAE Student Zone <a href="http://www.ashrae.org/membership--conferences/student-zone">http://www.ashrae.org/membership--conferences/student-zone</a> is a great place for student to go on line and learn more about ASHRAE and the multiple resources available to you.



The ASHRAE Senior Undergraduate Project Grant Program is still accepting applications. This program provides grants to engineering, technical and architectural schools worldwide with the goal of increasing student knowledge, learning and awareness of the HVAC&R industry through the design and construction of senior projects. Grants are to be used to fund equipment and supplies for senior projects and 2-year technical school projects that focus on ASHRAE-related topics.

Grants may cover projects lasting from one academic term up to one year. See the Student Zone for more information.

Students who are currently enrolled or soon to be enrolled in an engineering undergraduate degree should take a look at <a href="https://www.ashrae.org/scholorships">www.ashrae.org/scholorships</a>. There are 13 undergraduate scholarships available ranging from 10,000 to 3,000 dollars!

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

Richard Halley Student Activities Committee Chair



### **Research Promotion**

I would like to thank 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 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.

There's still time if you would like your company listed in the directory please contact me. The deadline is December 15<sup>th</sup>.

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 \$3,500. 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 Andrew E Manos, LEED AP Mr Charles J. Lesniak, PE Mr Donald Kane, PE Mr Frank Paradiso Mr John D Nally

Mr Kenneth T Mueller
Mr Lee Feigenbaum

Mr Marcel A Bally

Mr Michael Gerazounis, PE, LEED AP

Mr Richard I Halley

Mr Richard Pearson, PE, LEED AP

Mr Richard L Rosner, PE Mr Ronald J Kilcarr, PE

Mr Thomas Fields, PE, LEED AP

### **COMPANIES**

Accuspec Inc.
Building Cooling Systems
Catan Equipment Sales
Dagher Engineering
PVI / Riverside Hydronics
Technical Air Systems, Inc.

### **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

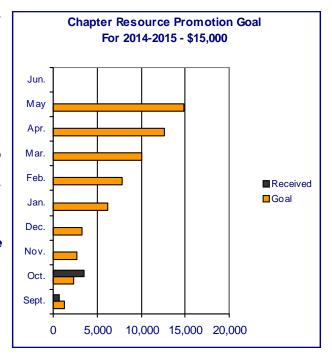
**Development Drive** 

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 IS-LAND 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 - Air Delivery System Efficiency - Speaking Duct

When designing HVAC systems, efficiency and peak performance are always at the vanguard of concern. As a key part of an HVAC system, duct system design is no different. However, that begs the question....what is an efficient duct system? The cheapest one to install... The least restrictive to air flow..The quietest...or the most leak free? Of course, we want it to be all of the above...even when the requirements may seem to be mutually exclusive, especially when it comes to costs! A 2003 "Technology Fact Sheet" published by the Department of Energy (DOE), stated that the desired duct "system" objectives would be to design a system which:

- Provides conditioned air to meet all room heating and cooling loads
- Is properly sized so that the pressure drop across the air handler is within manufacturer and design specifications
- Is sealed to provide proper air flow and to prevent air from entering the house of duct system from polluted zones
- Has balanced supply and return air flows to maintain a neutral pressure in the structure
- Minimizes duct air temperature gains or losses between the air handler and supply outlets, and between the return register and air handler



That is a good summary, even though a couple of those rules may have to be "bent" for specific applications...more on that later. The same DOE fact sheet refers to the "efficiency" of many installed air distribution systems (this particular fact sheet was primarily concerned with houses, but much of what it covered has a broader application) to be 60-75% or less. The metric for determining efficiency was not specified but it is clear that the point they were making was that much energy (this was a DOE fact sheet) was being wasted due to "inefficient" air distribution systems. Let us, therefore, look at each of the above items to see how they affect the "system efficiency" and what can be done to improve performance. But first....let us take a few steps back for a wider view of the "system" components so we may better understand how the "bits and pieces" work together to supply conditioned air in the proper quantity and quality to the appropriate locations in a structure.

The DOE notes in their fact sheet that the duct system includes supply and return plenums, ducts, fittings, boots, grilles and registers. For those followers of NFPA-70, this would include the "other spaces used for environmental air (plenums)" in Article 300.22(C). The key take-away, is that ducts cannot be designed in isolation. The system designer must coordinate with other disciplines, including (especially) architects, to ensure that there is adequate space for installing a proper functioning air distribution system. This coordination must also include the construction phase and, hopefully, operation and maintenance.

But, we digress... the primary goal is to deliver conditioned air to meet all heating and cooling loads (to result in an acceptably high perceived-comfort level by the occupants of the conditioned space). This requires that the heating and cooling loads be adequately and accurately determined. To do this, one must establish the design-day temperatures to be used. This may not necessarily be the worst-case temperature, if the frequency of that occurrence low. This is an economical trade-off between cost and the need to address any contingency. When calculating the heating/cooling loads, note the locations and time correlation of the loads, so zones may be defined that will have the same thermal needs to minimize the number of different zones/duct runs needed (after all, some space has to be left over for the electricians and the plumbers) in a given space. It may even be possible to recover/reject heat from one part of the building to another with differing thermal needs.

Taking last things first, if an incorrectly sized and/or configured diffuser is installed (regardless of how efficient your air delivery system is), the perceived comfort level of the area occupants may be unsatisfactory, with complaints of drafts, too hot/too cold, or too noisy. Insure that the diffuser selected will, given the available face velocity of the conditioned air,

### CTTC - Air Delivery System Efficiency - Speaking Duct (Cont'd. from Page 10)

result in the desired throw and spread, to promote a uniform thermal "blanket" surrounding the occupants. Similarly, on the return side, locate return grilles to promote uniform airflow through the conditioned space to avoid stratification. Insure sufficient duct penetration into the grille box, when needed to promote uniform flow across the face of the grille.

The above process needs to be conducted in close coordination with the architect, to ensure that those perfect locations for the diffusers and grilles are available for said installation, and not in the middle of other, unrelated architectural element. This is also a good time to establish the philosophical approach being taken to giving the stakeholders a say in their own comfort. If variable air volume (VAV) delivery is used, controlled by the space temperature, how much control will be available locally to those occupying the space. It is generally accepted that a properly designed and operating system will result 80% of the occupants being satisfied. Even if local control is limited to plus or minus two degrees, the fact that there is some control may convince some of the 20% "non-believers" that the comfort level is acceptable.

The second objective outlined by the DOE fact sheet is maintaining system pressure drop within specified limits. Attaining this objective involves elements of design, installation and maintenance. Design must take into account the internal friction of the selected duct material, which includes metal duct (rectangular, round and oval), lined insulation board, fabric duct and flexible duct. All of these have their place in a well designed system (yes, even flex duct, limited to short lengths, installed fully extended and used only where vibration isolation or installation constraints require it). Difficulties arise when changes are made to an existing system; for example, installing fabric ducts to replace metal duct that has deteriorated beyond the point of repair, without taking into account the capabilities of the existing air handler. Sound system layout should be followed to minimize the number of directional changes needed, as each fitting results in additional restriction. A ninety-degree elbow can add as much as 35 additional effective feet to the duct run, depending upon the airflow and duct dimensions at that point. Sometimes an otherwise acceptable design is modified in the field, during installation, to include additional changes in direction and/or use of excessive lengths of flex duct. Further, flex ducting may be installed in the compressed condition and/or deformed to pass through openings or around other objects, resulting in additional system restriction.

Even when properly designed and installed, an air delivery system's effectiveness may be diminished because of changes made during maintenance, intentionally or not. Short lengths of properly installed flex duct may be damaged during subsequent maintenance, sometimes by other crafts trying to create clearance for other utilities or structure. A well intentioned changed to a higher efficiency air filter than specified may add excess restriction to the airflow. The filter's efficiency rating relates to the ability to capture contaminants, not its ability to freely flow air.

While the primary reason to avoid excessive restriction in the air delivery system is to ensure rated air flow is delivered to the terminal devices, undesired restrictions can also result in higher noise levels, which may be intrusive to the work space.

Our third concern, sealing, also involves design, installation and maintenance issues. The design should clearly indicate the appropriate sealing methods, generally utilizing a permanent mastic compound. Where possible (rarely) locations of sealing locations should be located where they can be accessed, if needed, should future leaks develop. Unfortunately, by the time all the utilities are installed and the walls/ceilings buttoned up, it is difficult (if not impossible) to gain access to these areas. Some have reported acceptable results using aerosol type sealants (sort of the air-side equivalent of using Bar's Leaks or potato soup to plug up a leaky automobile radiator), but, as always, prevention is the better course. Certain mechanical linkages, necessary for damper operation may contribute to overall system leakage, but should not be a major factor unless mechanical wear has resulted in greater clearances than when new. When testing and balancing the air side of a system, care must be taken to ensure that all test orifices are properly sealed. When applying mastic to seal a duct joint or penetration, some consideration should be given to the operational characteristics of the system which will include thermal cycling, vibration, flexing and, perhaps, seismic activity. All of these can contribute to a failure of a sealed connection. Flexible fabric connections used to isolate duct sections should be installed with the required amount of "slack", suitably secured and not used to correct for axial misalignment of the duct sections, as the additional stress on the fabric can result in early failure and ensuing leakage.

### CTTC - Air Delivery System Efficiency - Speaking Duct (Cont'd. from Page 11)

In order to provide balanced air flow suitable sensors and controls are needed in the system design as well as dampers, VAV boxes and variable speed drives for air handlers. In some cases, hospitals for instance, it may be necessary to provide a positive or negative net pressure differential, in order to control the transmission of germs. While testing and balancing is always essential to ensure a correctly operating system, in the case of hospitals, it becomes a life safety consideration, not merely a comfort issue.

Finally, the last item on the DOE "hit list", minimizing heat loss/gain, will once again involve design, installation and maintenance. The designer should locate the duct system, whenever possible, in areas which will minimize the temperature differential between the air being delivered by the duct system and the ambient surrounding the duct. While using insulation on the interior of the duct can minimize damage from adjacent installation or maintenance work, it will increase the air resistance, make cleaning more difficult—should it be necessary (think hospital infectious disease control) and require a larger external duct dimension to compensate for the loss in interior cross sectional area. Insulation applied to the exterior of the duct will allow for the full interior duct cross section for air flow, ease future cleaning and provide minimum flow resistance. However, unless sufficient space if provided to install and seal the insulation during construction, it is possible for areas to be left improperly insulated. While the heat loss/gain may seem minimal, the possibility of condensation occurring and subsequent deterioration of the duct system—is a real problem, especially since this kind of damaging condensation may go undetected for an extended period, as the moisture is wicked into the insulation. Even when properly applied, insulation may be damaged during future maintenance or installation in the same space, especially if cables are being pulled into place.

Thus, the five key items identified by the DOE as desired objectives for air delivery system can be, to some degree, addressed by proper design, coordination and installation. However, what happens once the system is turned over is dependent upon the owner having sound maintenance procedures in place and followed when work is being performed involving or in close proximity to the air delivery system.

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

### **Grassroots Government Activities Committee (GGAC)**

As most of you know ASHRAE is no longer a US based society it has moved itself to a global society. Two summers ago at the regional ASHRAE CRC, ASHRAE wanted to start a new committee in their local chapters to help it grow globally so it created the GGAC. The main purposes of the GGAC is to serve as a communicator between the local ASHRAE chapters and national, serve as a communicator between the local ASHRAE chapters and other trade organizations, and to update local government officials on ASHRAE standards and technical issues. Please look at the ASHRAE's main GGAC Facebook page at <a href="www.facebook.com/ASHRAEGGAC">www.facebook.com/ASHRAEGGAC</a> for more information what the GGAC is doing nationally. So for this ASHRAE season we had three joint engineering meetings and we are looking to see if other organizations would like to join us for joint meetings for the next ASHRAE year. Please contact me if your organization would like to join us for a joint meeting.



Recently the NCEES has modified their standings on their Model laws and Models rules for licensure. Previously the NCEES was going to require all engineers obtain a master degree or equivalent to be effective by 2020. But this decision was removed and new engineers will be still be required to have an engineering bachelor's degree from an ABET accredited school. Please see the attached link for further information. <a href="http://ncees.org/about-ncees/news/ncees-approves-revised-approach-education-initiative/">http://ncees.org/about-ncees/news/ncees-approves-revised-approach-education-initiative/</a>

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

### Membership

Your Long Island Chapter of ASHRAE appreciates the sacrifices that our members make to support this organization. On the note of recognizing those who serve, our November meeting falls on Veterans Day this year. To show our support for those who have served, we are pleased to donate all proceeds from our 50/50 to the Wounded Warrior Project this month. We encourage maximum attendance to show your support for our veterans and to contribute to this worthwhile organization.

YOUR membership and continued involvement in ASHRAE is one of our highest priorities. Not only do we value your input, we value your experience. As such, we strive to actively notify you when your account is delinquent. We understand that it can be a hassle when your membership expiration approaches, so we make every effort to ensure our membership is aware of their status if they come past due,

expiration approaches, so we make every effort to ensure our membership is aware of their status if they come past due and as a service we offer frequent reminders. Here's how it works:

When someone joins ASHRAE, and Society has received their dues payment, their annual membership year begins and continues on a 12-month billing cycle.

- 1. At three months prior to the one-year anniversary of the original billing, we contact you to renew your dues for the following year. If you choose not to renew, you become "unpaid" the first day after the expiration date.
- 2. For the first three months (0-90 days past due) after the anniversary date, we will continue to send friendly reminders while your membership remains active.
- 3. After the three months following the expiration date (91-180 days past due), your membership expires and you enter into a "grace" period. At this point we can no longer offer member benefits.
- 4. Six months after the expiration date (181 days past due), we "cancel" your membership, and subsequently remove you from our member roster.

Fortunately, even cancelled members can reinstate their membership and keep their original election dates by catching up on their dues. Or you can rejoin as a new member. Reinstatements must be processed manually by staff, but "Renewals" and "Rejoins" can be done anytime on the website by re-applying as a "new" member.

You can easily check on your membership status and renew online at <a href="www.ashrae.org">www.ashrae.org</a>. Should you have any questions regarding this effort, do not hesitate to contact me at membership@ashrae.org.

Thanks for your continued support!

Lee Feigenbaum, LEED AP BD+C Membership Chairman

### Young Engineers in ASHRAE (YEA)

The Long Island chapter meeting on November 11th, 2014 is Student Activities and YEA Night. This meeting will be a great way to learn about what being a member of your local chapter of ASHRAE has to offer. The ASHRAE Long Island chapter is offering free dinner to the students who attend this meeting and apply for a membership (The student member fee will be covered by the chapter.)

Being a student member of ASHRAE brings great opportunities for our younger members to congregate with experienced professionals in the Engineering Industry. The mingling amongst a range of junior and more senior members is a good way for anyone to learn about the potential challenges, experiences and advice that any of our members have. Participation in the local chapter can also be a great learning experience during the monthly meetings because of technical presentations, new product technologies and overall applications of engineered systems.



Don't forget about some of the great programs that ASHRAE has for student members like the Smart Start Program:

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

We will be looking for ideas for social events so please contact me if you have suggestions. One such idea is a spring get together at a German Beer Hall in Franklin Square NY

Be sure to connect with Young Engineers in ASHRAE on Facebook and LinkedIn.

Frank Paradiso YEA Chairman



### **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. Frank Paradiso will be collecting them.

### **History**

A Brief History of the ASHRAE Handbook

The lineage of the Handbook begins in 1922, when the American Society of Heating and Ventilating Engineers (ASH&VE) published its Heating and Ventilating Guide. Its purpose was stated as follows in its preface: 'The purpose of this new addition to the Society's publications is to provide the engineer, the architect and contractor alike, with a useful and reliable reference data book relating to the art of heating and ventilating. A wide range of data within the scope of the field is presented and every effort has been made to present the material in a practical and useful manner.'

Society Technical Committees, Task Groups, and individuals obtained data and prepared chapters using information from any authoritative source. Society-sponsored research provided much information.

ASH&VE, which later became the American Society of Heating and Air-Conditioning Engineers (ASHAE), published The Guide until 1961, when it was merged with the American Society of Refrigerating Engineers' (ASRE) Refrigerating Data Book, published since 1932, following the merger of the two societies in 1959. The combined publication was called the ASHRAE Guide and Data Book. Separate volumes were issued for Fundamentals and Equipment, and Applications.

In 1967, the information in the Guide and Data Book was regrouped into a Handbook of Fundamentals, with separate Systems, Applications, and Equipment volumes. In 1973, the Guide and Data Book was renamed the ASHRAE Handbook. In 1985, separate I-P and SI unit volumes were issued, and in 1986, a separate Refrigeration volume was established. Although volume groupings have shifted over the years, the name and the essential method by which the ASHRAE Handbook is compiled has continued to the present.

Andrew B. Dubel, PE History Chairman

### Programs and Apps offered on the Web or for Your Smartphone

Since the Web has become more and more useful for finding information about products and the works of others, we have decided to start a space in the Sounder to note items that some of us might find useful. This is not an endorsement of a web site nor is the information furnished said to be accurate but rather just the advice that the information is available to you for your review. Send what you find useful and we will publish it for others to try.

### Rich Rosner

### Web Sites:

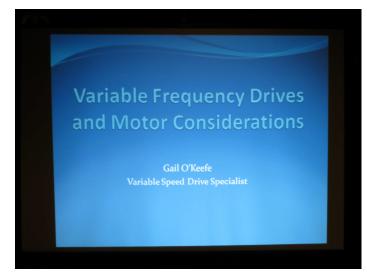
We were fortunate this month to try a design program called Taco HSS (Hydronic System Solutions) 2D BIM. It can be downloaded for free and is free to use. It can be found at http://www.taco-

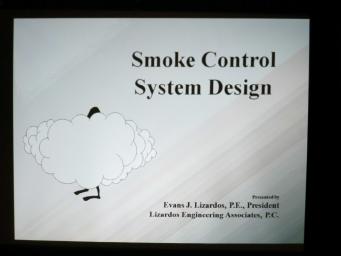
hvac.com/products/design\_tools/hydronic\_system\_solution/index.html a video giving an overview can be found at http://vimeo.com/104619858 There is also one called Controls which can be found at http://www.youtube.com/watch?v=tAmR4o-aW60&feature=youtu.be

### **Apps for Smart Phones:**

No new ones this month

### **October Meeting Pictures**















## **October Meeting Pictures**















### What to do NOW to Save \$10,000 to \$25,000 or more on Your 2014 Taxes

### The following article was provide by Seymour Zimbalist of OJM Group:



**Seymour Zimbalist CLU ChFC** is a Financial Advisor in OJM Group's New York office. Seymour works with physicians, business owners and entrepreneurs in the Northeast to introduce them to OJM Group's comprehensive range of multi-disciplinary planning services and develop strategies in the areas of asset protection, corporate structure, wealth management, and personal and corporate tax reduction. Seymour's background includes over 27 years of detailed insurance planning, business plan funding and wealth conservation and transfer for high net worth individuals, business owners and professionals. Prior to joining OJM Group, Seymour served as the Sales Vice President for the Highland Capital Brokerage, New York Metro Office and as an Insurance and Wealth Management advisor with Citigroup, UBS and Merrill Lynch. He holds the designations of Chartered Financial Consultant® (ChFC®) and Chartered Life Underwriter® (CLU®) from the American College in Pennsylvania.

As we approach the 4<sup>th</sup> quarter of the year, most of our business owner clients now have a fairly good idea of what their taxable income will be for 2014. If you are like these clients, you may be wondering "is there anything I can do NOW to save taxes on April 15<sup>th</sup>"? The answer is very likely "yes."

This short article will lay out a few ideas that could save you <u>tens of thousands of dollars</u> on your 2014 income tax bill, depending on your facts and circumstances, as well as explaining some capital gains and planning concepts. This is especially important in 2014 as federal income and capital gains taxes are again higher compared to 2012 because of the Fiscal Cliff deal signed in January 2013 and Medicare taxes are higher because of the Affordable Care Act.

### **Techniques to Reduce 2014 Income Taxes**

### 1. Maximize the Tax Benefits of Your Qualified Retirement Plan (QRP)

Many businesses, including those in the HVAC industry, have some type of QRP in place. These include 401(k)s, profit-sharing plans, money purchase plans, defined benefit plans, 403(b)s, or even SEP or SIMPLE IRAs, for these purposes.

However, most of these plans are NOT maximized for deductions for the business owner(s). The Pension Protection Act of 2006 improved the QRP options for owners. In other words, many owners may be using an "outdated" plan and forgoing further contributions and deductions permitted under the most recent rule changes. By maximizing your QRP under the new rules, you could increase your deductions significantly for 2014 and reduce your taxes on April 15<sup>th</sup> 2015.

### 2. Implement a Fringe Benefit or "Hybrid" Plan

Unfortunately, the vast majority of business owners begin and end their retirement planning with QRPs. Most have not analyzed, let alone implemented, any other type of benefit plan. Have you explored fringe benefit plans, non-qualified plans or "hybrid plans" in the last two years? The unfortunate truth for many HVAC business owners is that they are unaware of plans that enjoy favorable short-term and long-term tax treatment. If you have not yet analyzed all options, we highly encourage you to do so. A number of these plans can help you reduce your taxable income in 2014 significantly...and they can be put into place in a few weeks, so it's not too late for 2014.

### 3. Consider a Captive Insurance Company (CIC)

CICs are used by many of the Fortune 1000 for a host of strategic reasons. For the right-sized HVAC business, a CIC can be equally beneficial, especially for the owners. Here, you actually create your own properly licensed insurance company to insure all types of risks of the business – often those that have little coverage today. These

## What to do NOW to Save \$10,000 to \$25,000 or more on Your 2014 Taxes (Cont'd. from Page 18)

can be economic risks (that revenues drop), business risks (that key contracts are lost), litigation risks (coverage for defense of harassment claims or wrongful termination), etc. If it is created and maintained properly, the CIC can enjoy tremendous income tax benefits that can translate into hundreds of thousands of dollars of tax savings annually.

### 4. Pre-Pay 2014 Expenses in 2014

As the year winds down, we typically counsel clients to prepay for some of the following year's expenses in the present year. As long as the economic benefit from the prepayment lasts 12 months or less, this can be done. Since 2015 highest marginal tax rates will likely be the same those in 2014, this makes sense because of the benefit of the early deduction.

### Techniques to Reduce Taxes on Investments

### 1. Planning for the 3.8% Medicare Surtax

Beginning in 2013, the tax law imposed 3.8 percent surtax on certain passive investment income of individuals, trusts and estates. For individuals, the amount subject to the tax is the lesser of (1) net investment income (NII) or (2) the excess of a taxpayer's modified adjusted gross income (MAGI) over an applicable threshold amount.

Net investment income includes dividends, rents, interest, passive activity income, capital gains, annuities and royalties. Specifically excluded from the definition of net investment income are self-employment income, income from an active trade or business, gain on the sale of an active interest in a partnership or S corporation, IRA or qualified plan distributions and income from charitable remainder trusts. MAGI is generally the amount you report on the last line of page 1, Form 1040.

The applicable threshold amounts are shown below.

Married taxpayers filing jointly \$250,000

Married taxpayers filing separately \$125,000

All other individual taxpayers \$200,000

A simple example will illustrate how the tax is calculated.

Example: Al and Barb, married taxpayers filing separately, have \$300,000 of salary income and \$100,000 of NII. The amount subject to the surtax is the lesser of (1) NII (\$100,000) or (2) the excess of their MAGI (\$400,000) over the threshold amount (\$400,000 -\$250,000 = \$150,000). Because NII is the smaller amount, it is the base on which the tax is calculated. Thus, the amount subject to the tax is \$100,000 and the surtax payable is \$3,800 (.038 x \$100,000).

Fortunately, there are a number of effective strategies that can be used to reduce MAGI and or NII and reduce the base on which the surtax is paid. These include (1) Roth IRA conversions, (2) tax exempt bonds, (3) tax-deferred annuities, (4) life insurance, (5) oil and gas investments, (6) timing estate and trust distributions, (7) charitable remainder trusts, (8) installment sales and maximizing above-the-line deductions. We would be happy to explain how these strategies might save you large amounts of surtax.

### 2. Use Charitable Giving for Capital Gains Tax Planning

There are many ways you can make tax beneficial charitable gifts while benefiting your family as well. Charitable Remainder Trusts (CRTs), Charitable Lead Trusts (CLTs), Private Foundations – these all can be used, within the IRS rules, to benefit charitable causes, reduce taxes and retain some benefits for families. If you have considered any of these tools in the past, implementing them in a year of high income might be a good idea.

## What to do NOW to Save \$10,000 to \$25,000 or more on Your 2014 Taxes (Cont'd. from Page 19)

### Conclusion

This article gives you a few ideas for potential tax savings for 2014 income and beyond. The key is to take the time to evaluate which of these concepts, or others not mentioned in this short article, may work for you. In 2014, all business owners, including those in the HVAC industry, need to be as financially efficient as possible.

**SPECIAL OFFERS:** For a free hardcopy of the book "Wealth Secrets of the Affluent," please call 877-656-4362. If you would like a free eBook for Kindle, Nook or iPad/iPhone, please download "Fortune Building for Business Owners & Entrepreneurs: The Keys to Corporate Structure, Tax Reduction, Asset Protection and Wealth Creation" at <a href="https://www.fortune-building.com">www.fortune-building.com</a>.

**David B. Mandell, JD, MBA,** is an attorney and author of 10 books on legal, tax and financial issues, including "Wealth Secrets of the Affluent," published by John Wiley & Sons, Inc., the largest business book publisher in the world. He is a principal of the financial consulting firm OJM Group (<a href="www.ojmgroup.com">www.ojmgroup.com</a>) where **Carole C. Foos, CPA** is a tax consultant. They can be reached at 877-656-4362 and Mandell@ojmgroup.com.

### Disclosure:

OJM Group, LLC. ("OJM") is an SEC registered investment adviser with its principal place of business in the State of Ohio. OJM and its representatives are in compliance with the current notice filing and registration requirements imposed upon registered investment advisers by those states in which OJM maintains clients. OJM may only transact business in those states in which it is registered, or qualifies for an exemption or exclusion from registration requirements. For information pertaining to the registration status of OJM, please contact OJM or refer to the Investment Adviser Public Disclosure web site www.adviserinfo.sec.gov.

For additional information about OJM, including fees and services, send for our disclosure brochure as set forth on Form ADV using the contact information herein. Please read the disclosure statement carefully before you invest or send money.

This article contains general information that is not suitable for everyone. The information contained herein should not be construed as personalized legal or tax advice. There is no guarantee that the views and opinions expressed in this article will be appropriate for your particular circumstances. Tax law changes frequently, accordingly information presented herein is subject to change without notice. You should seek professional tax and legal advice before implementing any strategy discussed herein.

### **Engineers Joint Committee of Long Island Table at SUNY Farmingdale**

ASHRAE LI Participates with Engineers Joint Committee of Long Island at *International Energy and Sustainability Conference 2014*, held October 24, 2014 at SUNY - Farmingdale





### ASHRAE 2015 Winter Conference in Chicago, IL



ASHRAE 2015 Winter Conference January 24–28 | Chicago, Illinois

AHR Expo January 26–28 | McCormick Place





You attended an ASHRAE Winter Conference in 2014 or 2013 but you've not registered to join us in 2015. ASHRAE is excited to return to Chicago for the 2015 Winter Conference, its historically best-attended event. Attendees can discuss the latest topics in the building industry; participate in technical tours; attend ASHRAE Learning Institute courses; earn professional credits; and obtain ASHRAE certifications. Chicago also serves as the site of the AHR Expo, co-sponsored by ASHRAE and held in conjunction with the Winter Conference.

### Why You Should Join ASHRAE in Chicago...

Gain personal and career excellence through peer contact, exchange of technical information and continuing education. Share ideas with members from around the world



Visit the world's largest HVAC&R marketplace. The AHR Expo brings the entire industry together under one roof to see the latest products and technology, learn about innovations and trends that are shaping the future, and build new relationships.

www.ahrexpo.com.

With the Conference being held in the Windy City, the Technical Program itself is going big with a focus on big projects, the big picture and big impacts. Eight tracks are featured. The complete Technical Program is available at www.ashrae.org/chicago.

### ASHRAE 2015 Winter Conference in Chicago, IL

We have 20 high-quality, authoritative, Professional Development Seminars and Short Courses presented by the ASHRAE Learning Institute. There is a new course on Standard 202, Commissioning Process for Buildings and Systems, in addition to updates to Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings, and 62.1, Ventilation for Acceptable Indoor Air Quality.

Training topics include commissioning, energy management, Standard 55, Thermal

Environmental Conditions for Human Occupancy, energy efficient data centers, healthcare facilities, building energy audits, the coming smart grid and ground source heat pumps.

Register at www.ashrae.org/chicagocourses.



See the technology you help create first-hand via a **Technical Tour**.

Tours include a brewery,

Walgreens net zero store and

McCormick Place. Complete information can be found online.

Featured tracks for the technical program include Industrial Facilities, Mission Critical Facilities, Life Safety and Hospital Design.

Gain valued credentials held by top engineers via ASHRAE's six Certification programs. An exam session for all six ASHRAE certifications takes place Wednesday, Jan. 28. ASHRAE's six certification programs are as follows:

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



Hear Keynote Speaker Aron Ralston share the dramatic story of being forced to cut off his hand after being trapped while hiking. Author, adventurer and subject of the film *127 Hours*, which was nominated for six Oscars.

Advanced registration, offering the lowest Conference rates, ends Nov. 3.

Register early at www.ashrae.org/chicago.

We look forward to seeing you in Chicago.

If you have any questions, please contact us at meetings@ashrae.org.

### Save-the-Date: Free ASHRAE Webcast - April 23, 2014

### SAVE THE DATE

April 23, 2015 1:00pm - 4:00 pm EDT

## FREE ASHRAE WEBCAST

## New Tomorrows for Today's Buildings: Existing Building Commissioning

This FREE webcast will feature industry experts who will define the benefits of existing building commissioning for the environment, occupants, operations staff, and overall ownership costs. Viewers will be able to recognize the varied scopes of commissioning, when to apply comprehensive versus focused commissioning, and best practices in existing building commissioning specifications & contracting.

Visit <u>www.ashrae.org/Webcast</u> for additional information about the program, sponsorships, continuing education credits, speakers, and registration.



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### ASHRAE Releases Legionellosis Standard for Fourth Public Review Draft

ATLANTA - A fourth version of ASHRAE's proposed legionellosis standard is open for public comment until November 10, 2014.

Standard 188P, Legionellosis: Risk Management for Building Water Systems, currently under development, will establish minimum legionellosis risk management requirements for building water systems. The standard is intended for use by building owners and managers and those involved in the design, construction, installation, commissioning, operation, maintenance and service of centralized building water systems and components.

The draft of the document and instructions on submitting comments can be found at <a href="www.ashrae.org/">www.ashrae.org/</a>
publicreviews. The proposed standard will be available for access until Nov. 10, 2014.

Changes to the proposed standard since its last public review in January 2013 include:

- Alignment of the document with the revised title, purpose and scope.
- Removal of hazard analysis and critical control points (HACCP) terminology; some of the principles of the HACCP process are consistent with the process utilized in the document.
- Inclusion of a normative appendix for health care facilities meeting specific requirements that provides an alternate compliance path that is more stringent than for other facilities.
- More emphasis on requirements for design, construction, installation, commissioning, operation, maintenance and service.

Tom Watson, chair of the Standard 188P committee, notes that the standard contains both normative sections and appendices that specify what is required to comply. It also contains informative appendices and references as guidance about how to do things that may be necessary for a given building water system.

"Building water systems vary substantially in their design and their capability for transmission of Legionella," Watson said. "Scientific evidence is either lacking or inconclusive in certain aspects of Legionella control. The informative guidance is included to provide suggestions, recommendations and references."

To learn more about actions regarding ASHRAE standards, visit <a href="www.ashrae.org/listserv">www.ashrae.org/listserv</a>. There, ASHRAE provides subscriptions to a variety of listserves, including one for Standard 188P, that enable interested parties to stay up to date with the latest news, publication offerings, and various other Society activities.

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 50,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today. More information can be found at <a href="https://www.ashrae.org/news">www.ashrae.org/news</a>.

###

### **Fall 2014 Online Courses**



## 2 Ways to Register

Internet: www.ashrae.org/onlinecourses

**Phone:** 1-800-527-4723 (U.S. and Canada) or 404-636-8400 (worldwide) \$259 (ASHRAE Member: \$199) | Two-part courses: \$459 (ASHRAE Member: \$339)

NOTE: You may register up to 24 hours prior to an online course. Course times are in Eastern US Time



## Earn Continuing Education Credits Take 3 or More Courses & SAVE!

Courses are archived for a period of time after their initial presentation.

### **ASHRAE Standards**

Exceeding Standard 90.1-2013 to Meet LEED® Requirements ES Practices

Wed, November 12, 2014, 1:00 pm to 4:00 pm, EST

Instructors: McHenry Wallace, P.E., Member ASHRAE, LEED® AP and Joseph Deringer, AIA, Member ASHRAE, LEED® AP

Fundamental Requirements of Standard 62.1-2013 IAQ Practices

Wed, September 24, 2014, 1:00 pm to 4:00 pm, EDT

Instructor: Hoy Bohanon, P.E., Member ASHRAE, BEAP, LEED® AP

### **ASHRAE Long Island Chapter Polo Shirts for Sale**

New ASHRAE Long Island Chapter Polo shirts are now available for purchase at our monthly chapter meetings:

Sizes Available: Small to 2XL
Colors: Blue or White
Pricing: \$30 per shirt



### **\$\$\$ SAVE MONEY \$\$\$**

**\$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 <a href="mailto:finsec@ashraeli.org">finsec@ashraeli.org</a> or call 631-574-4870.



### **CLASSIFIEDS**

ELECTRICAL TRAINING CENTER Inc. 65 Elm Street, Copiague, NY 11726 Tel: (631) 226-8021 Fax: (631) 226-8326 www.electricaltrainingcenter.edu





### **Help Wanted - HVAC/R Instructor**

### **Job Description:**

Electrical Training Centers HVAC/R training division is hiring HVAC/R instructors.

Full and part time available to provide instruction with an approved training curriculum and materials in accordance with the state of New York Education department standards.

Enjoy and appreciate teaching in our newly completed state of the art laboratory and classrooms to educate and develop the HVAC/R industries finest & future technicians and installers of Heating, Ventilation and Air Conditioning.

### Responsibilities:

Motivate, Educate, Develop and prepare present and future technicians in all aspects of the educational process.

Maintain expertise in subject matters taught.

Provide regular, precise and timely feedback to students and school administration concerning academic progress as well as behavior and attendance.

### Job Requirements:

Industry certified HVAC\R technician with experience in residential and commercial applications.

EPA Universal Certification and/or related licenses/certifications preferred.

Prior teaching experience a plus.

Ability to work with other instructors and independently while utilizing excellent communication and emphasis on organizational skills.

Gas and oil burners, controls and wiring a definite plus!

### **Company Overview:**

The Electrical Training Center Inc. was founded in 1998 to meet the ever-increasing demand in today's market for qualified electrical helpers. In 1999, the school was licensed by the New York State Education Department and began their first class in electrical training. In 2003, the school changed ownership and began to expand the curriculums and programs offered at the school. In 2010, the school was granted accreditation from ACCET. The school is presently working towards further expanding the facilities and curriculum. Please visit our Website at: www.electricaltrainingcenter.edu

Send resume to: robert@electricaltrainingcenter.edu or Fax: (631) 226-8326



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

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