



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

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President's Message

On behalf of the Long Island ASHRAE Chapter we would like to express our deepest sympathies and best wishes to all those affected by Hurricane Sandy. In an effort to get life back to normal we will be having our monthly meeting as scheduled on Tuesday, November 13th. Also please note at this month's meeting our 50/50 raffle will be donated to the Red Cross to assist with Hurricane relief efforts. Please see page 22 for a special message from our national ASHRAE president, Tom Watson, P.E., Fellow ASHRAE, Life Member, ASHRAE President, 2012-13.



Last month's presentations were a success, we are very lucky to have such a diverse group of engineers and manufacturers that support our organization. We were fortunate enough to have Evans Lizardos give us some back to basics on proper pump design and selection. His handouts make for excellent reference material, I know I have kept all mine. We were also treated to filter technologies and the green market place and a very good discussion on how ASHRAE is testing these filters.

I am at a point in my life where I am sending my first child off to school. He has always been an excellent scholar athlete but selecting the right school and being able to afford it are a huge challenge. Every day you turn on the news all you hear about is how much debt students have upon graduation and is it really worth it. Well ASHRAE even helps out on this level as well.

The American Society of Heating, Refrigerating & Air-Conditioning Engineers (ASHRAE) has more than a century of experience advancing the arts and sciences of HVAC&R and related human factors to serve the needs of its members and population at large.

In 1994, a dedicated group of long-time ASHRAE members created ASHRAE Foundation to support the needs of the HVAC&R industry. ASHRAE Foundation is an endowed trust that provides funding for professional development and research programs, supplies qualified engineering students with much needed scholarship assistance, and ensures that ASHRAE will continue to have sufficient resources to sustain and expand the Society's vital work.

The creation of ASHRAE Foundation was in response to a valid need for increased funding for ASHRAE programs and projects. A solid proponent of education, the Foundation recognizes and accepts the challenge to provide the financial support necessary to offer tailored educational programming to ensure HVAC&R professionals are prepared today for tomorrow's challenges.

CHAPTER MONTHLY MEETING

DATE:	Tuesday, November 13, 2012
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 -	\$40.00
Guest -	\$45.00
Student -	\$15.00

Reservations requested, but not required.

Call (516) 333-7117

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	bsimkins@accuspecinc.com
President-Elect	Andrew Manos, LEED AP	631.632.2791	631.632.1473	andym22@optonline.net
Vice President	Richard Rosner, P.E.	631.737.9170	631.737.9171	rrosner@csfllc.com
Financial Secretary	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	thomas.fields@mgepc.net
Treasurer	Charles Lesniak, P.E.	516.484.1020	516.484.0926	charles.lesniak@leapc.com
Secretary	Don Kane, P.E.	631.737.9170	631.737.9171	dkane@csfllc.com
Board of Governors	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	andrew.dubel@leapc.com
Board of Governors	Richard Halley	718.269.3809	718.269.3725	rchalley@trane.com
Board of Governors	Carolyn Arote	516.568.6550	516.568.6575	carote@adehvac.com

ASHRAE 2012/2013 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	Andrew Manos, LEED AP	631.632.2791	631.632.1473	andym22@optonline.net
Membership	Charles Lesniak, P.E.	516.484.1020	516.484.0926	charles.lesniak@leapc.com
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Newsletter Editor	Liset Cordero	212.643.9055	212.643.0503	liset.cordero@mgepc.net
Research Promotion	Richard Rosner, P.E.	631.737.9170	631.737.9171	rrosner@csfllc.com
Historian	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	thomas.fields@mgepc.net
Student Activities	Richard Halley	718.269.3809	718.269.3725	rchalley@trane.com
Young Engineers in Training	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	andrew.dubel@leapc.com
Webmaster	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	thomas.fields@mgepc.net
Nominating	Michael Gerazounis, P.E., LEED AP	212.643.9055	212.643.0503	michael.gerazounis@mgepc.net
Reception & Attendance	Lee Feigenbaum, LEED AP BD+C	516.558.2075		lfeigenbaum@emcor.net
PR & Engineering Joint Council of LI	Peter Gerazounis, P.E., LEED AP	212.643.9055	212.643.0503	peter.gerazounis@mgepc.net
Golf Outing	Peter Gerazounis, P.E., LEED AP Steven Friedman, P.E., HFDP, LEED AP	212.643.9055 212.354.5656	212.643.0503 212.354.5668	peter.gerazounis@mgepc.net sfriedman@akfgroup.com

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President Message (Cont'd. from Page 1)

To learn more about this program please visit www.ashrae.org

Our next meeting is a joint meeting with SMACNA and our very own Lee Feigenbaum will be doing the presentation on duct leakage along with test standards and some practical exercises on leakage calculations. Lee was recently published in the ASHRAE journal on the topic so I am really looking forward to hearing more from him.

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

Thank you for your time and I look forward to seeing you all at the next meeting. If you have any questions or would like to get involved in our local chapter please do not hesitate to contact me or a board member.

Brian Simkins, LEED AP
President - Long Island Chapter





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	130	0	350	680	375	1,835

Chapter Monthly Meeting - Program for 2012/2013

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

Board of Governors Meeting Minutes

Attendees: Brian Simkins – President, Andy Manos – Pres Elect, Richard Rosner – V. President, Tom Fields - Financial Secretary, Charles Lesniak – Treasurer, Richard Halley – BOG, Don Kane – Secretary, Carolyn Arote – BOG-Past Pres

The meeting was brought to order at 5:15 PM, at Westbury Manor.

Secretary-Don Kane noted that the minutes of September's BOG meeting should have read "disc golf" as a potential YEA event. Moved by R. Halley (seconded by A. Manos) to accept the minutes, as amended. Unanimous approval.

President- Brian Simkins noted that the Region 1 website roster information needs to be updated. All Chapter MBO's have been finalized. All were reminded to update their respective PAOE points on-line.

PRES ELECT/PROGRAMS - Andy Manos reported that all speaker slots for chapter meetings have been filled except for the Joint SMACNA and USGBC meeting; He will finalize arrangements for a speaker from SMACNA for the November joint meeting. Tentative topic will be Duct Leakage and Construction. Mark McCracken was suggested as a speaker (ASHRAE 189.1 update) for the joint USGBC meeting in February. Rich Halley will follow up with Mark to find out if he is available. Trane will sponsor the February meeting's cocktail hour.

CTTC – Don Kane will follow up with Sysco in November to assist them in putting together a presentation for the April 2013 field trip with content eligible for continuing education credits; He noted that Alex Weis, RVC-CTTC, will attend our November chapter meeting; Work is proceeding on putting together a "travelling" technical reference library for display at Chapter meetings; The meeting schedule should note that the May 2013 meeting speaker will be a Distinguished Lecturer; Society announcements will be sent out to our membership mailing list. Don is researching chapter members who presently hold ASHRAE certifications to determine if any are due for renewal.

TREASURER - Charlie Lesniak reported a current balance of approximately \$9,000. Chapter reimbursements for CRC expenses are being processed. Charlie will review this year's draft budget for presentation to the Board. We need to file with the IRS by November 15th. Carolyn Arote will check into a possible replacement for the current tax preparer. The Money Market account is to be rolled into the checking account, and a separate account will be set up for expenses related to the Chapter's hosting of the CRC in 2017. All signature cards are to be updated.

HISTORY - History PAOE points have exceeded par.

RESEARCH PROMOTION (RP) - Richard Rosner reported that the Chapter RP goal for 2012-2013 is \$14,681. The current total is \$1,345. RP nights are being held at the October and February meetings. Donors will be acknowledged at the October meeting. All BOG contributions need to be received by November 15th to achieve "Full Circle". A new advertiser, The VMC Group, has signed up for the ASHRAE LI Product Directory. Rich will begin the calling campaign to contact donors. It was noted that the Chapter donation to the Lynn Bellenger Fund must be received by the Society by October 15th. If necessary, the check should be Fed-X'd to ensure timely receipt.

MEMBERSHIP - Charlie Lesniak reported that delinquency notices have been sent out. It was noted that Chapter scholarship applications need to be available by January.

STUDENT ACTIVITIES - Richard Halley reported the November meeting will be a Student Activity meeting. Student attendance is encouraged. Richard has met with Suffolk County Community College and reported that there is interest in starting a student chapter there. A meeting is to be set up with Hofstra University and NYIT. Participation in the competition for Chapter scholarships is to be encouraged.

WEBMASTER - The website updating is in process.

GOLF - May 6th, 2013 Cherry Valley Club, Garden City.

OLD BUSINESS - No old business.

NEW BUSINESS - Andy Manos reported that the Stony Brook Student Chapter is looking for sponsors to make up for the lack of University funding. A formal budget is to be developed, but approximately \$400-500 per year is anticipated to be needed. A request for sponsorship is to be put in the Sounder.

Next BOG Meeting - November 13, 2012 - Westbury Manor

The meeting was adjourned at 6:05PM.

Donald W. Kane, PE
Chapter Secretary

November Program



Dinner Presentation

“HVAC Air Duct Leakage Testing and Testing Methodology ”

Presented by

Lee Feigenbaum, LEED AP BD+C
Project Manager
Heritage Mechanical Services,
an EMCOR Company

**Attendees
 Will Earn
 1 PDH!**

DATE:	TUESDAY, NOVEMBER 13, 2012		
Time:	6:00 PM - Cocktails and Hors D'oeuvres 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:	<p>Proper performance is the cornerstone of modern high-efficiency HVAC systems. As an ever increasing number of buildings seek LEED certification and energy conserving initiatives, it is important to understand how duct leakage considerations impact system design and overall performance.</p> <p>SMACNA's new 2012 "HVAC Air Duct Leakage Test Manual" represents the first major revision to duct leakage standards in 27 years. This 50 minute Power Point presentation and discussion will highlight some of the important changes to critical leakage factors associated with this revision. In addition, SMACNA's new standards will be compared and contrasted to standards defined in both ASHRAE 90.1-2010, and the AABC's 2002 "National Standards for Total System Balance." Attendees will complete actual leakage calculations in order to reinforce their understanding of the new standards before concluding with a discussion of cutting edge leakage testing techniques.</p> <p>Participants will receive 1 PDH credit.</p>		
About our Speakers:	<p>Lee Feigenbaum, LEED AP BD+C is Project Manager for Heritage Mechanical Services, an EMCOR company specializing in commercial HVAC and airside free cooling systems in and around the NYC area. He is a LEED Accredited Professional with building experience that includes core and shell mechanical, medical fit out, and high rise residential design and build. As an advocate of "green" building, his research on efficient green building practices has been published in "Snips Magazine." As a duct leakage expert, Lee headed a team that pioneered the use of VFD technology in leakage testing apparatuses, and "ASHRAE Journal" recently published his analysis of duct leakage classification as defined by the new SMACNA standard.</p>		

Research Promotion (Cont'd. from Page 7)

At last month's meeting we had a Resource Promotion Night where we recognized last year's donors. I would like to say thank you again to all those that have contributed. I also would like to thank the companies who have participated in the annual 2012 Product Directory of Manufacturers and their Representatives. There's still time if you would like your company listed in the 2013 directory, please contact me. The deadline is December 1st. I will be sending all who participated reminders and also a chance to add or subtract information for their listing.

The Product Directory has been prepared as a service to all its members and as a service to the local HVAC industry. It will be made available to all ASHRAE and non-ASHRAE members at no-cost and can be obtained at our monthly meetings 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. 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 \$2,190,000 with over 75 research projects on board. Our chapter is expected to raise over \$14,681 towards the overall goal of which we have already raised \$2,395. 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:

Mr John D Nally
Mr Roy Gustafson
Twinco Supply Corporation
Mr Donald W. Kane, PE
Mr Brian C Simkins
Mr Andrew B Dubel
Mr Jerome T Norris
Mr Ricky Gaska
Ms Carolyn Arote
Mr Andrew E Manos
Mr Ronald J Kilcarr, PE
Mr Charles J. Lesniak, PE
Long Island ASHRAE Chapter (For the Lynn Bellenger Fund)
Mr Richard L Rosner, PE

A Glance at What Your Resource Promotion Dollars Have Helped To Sponsor

Research Promotion (Cont'd. from Page 7)

ACTIVE OR RECENTLY COMPLETED RESEARCH PROJECTS AND GRANTS FOR REGION 1

Summer 2011 (This summers is not complied yet)

IDENTIFIER	TC/TG	COST	RESEARCH TITLE OR SUBJECT	CONTRACTOR	NOTES	
1267-RP	6.02	199,186	Development of an ASHRAE Design Manual for District Heating and Cooling Systems	GWA RESEARCH - Lyme, NH		
1325-RP	4.04	128,000	Environmental Weather Loads for Hygrothermal Analysis and Design of Buildings	SYRACUSE		Completed Mar. 2011
1383-RP	6.05	147,687	Develop a Radiant System Module for the Simulation and Analysis of Spaces and Systems	WRIGHTSOFT CORP- Lexington,MA		
1449-RP	6.03	160,000	Energy Efficiency and Cost Assessment of Humidity Control Options for residential Buildings	BLDG SCIENCE CORP - Somerville, MA		
1478-RP	4.03	150,000	Measuring Air-tightness of Mid- and High-rise Non-residential Buildings	WISS, JANNEY, ELSTNER ASSOCIATES, INC. - Cambridge, MA		
1557-RP	2.03	166,063	Lab Comparison of Relative Performance of Gas Phase Filtration Media at High and Low Challenge Concentrations	SYRACUSE		NEW
1580-RP	3.01	250,000	Study of Input Parameters for Risk Assessment of 2L Flammable Refrigerants in Residential Air Conditioning and Small Commercial Refrigeration Applications	NAVIGANT CONSULTING LLC - Burlington, MA		NEW
1584-RP	3.01	59,922	Assessment of Alternative Approaches to Predicting the Burning Velocity of a Refrigerant	NORTHEASTERN U		NEW
1633-RP	1.04	266,570	Data and Interfaces for Advanced Building Maintenance and Operation	KGBS Building LLC - Cambridge, MA		NEW
GIA-10-11		10,000	Predicting Occupant Behavior for Low Energy Office Building Design	HARVARD- Wasilowski, Holly	Graduate Student Grant-in-Aid	
GIA-10-11		10,000	Development of a Method for Determination for VOC Emissions Sources in Indoor Environments based on Material Emission Signatures and Air Samples Measured by PTR-MS	SYRACUSE-Han, Kwang Hoon	Graduate Student Grant-in-Aid	
REGION I		1,547,428				

Continued on Pg. 9

Research Promotion (Cont'd. from Page 8)

Currently What Your Resource Promotion Dollars Are Helping To Sponsor:

Goal 1: Maximize the actual operational energy performance of buildings and facilities.

Goal 2: Progress toward Advanced Energy Design Guides (AEDG) and cost-effective net-zero-energy (NZE) buildings.

Goal 3: To reduce significantly the energy consumption for HVAC&R, water heating and lighting in existing homes.

Goal 4: Significantly advance our understanding of the impact of indoor environmental quality (IEQ) on work performance, health symptoms and perceived environmental quality in offices, providing a basis for improvements in ASHRAE standards, guidelines, HVAC&R designs and operation practices.

Goal 5: Support the development of ASHRAE energy standards and reduce effort required to demonstrate compliance.

Goal 6: Building Information Modeling of energy efficient, high performing buildings. BIM is a rapidly developing field of knowledge which stretches beyond the traditional boundaries of the HVAC&R industry to the wider construction sector.

Goal 7: Support development of tools, procedures and methods suitable for designing low-energy buildings.

Goal 8: Facilitate the use of natural and low global warming potential (GWP) synthetic refrigerants and seek methods to reduce their charge.

Goal 9: Support the development of improved HVAC&R components ranging from residential through commercial to provide improved system efficiency, affordability, reliability and safety.

Goal 10: Significantly increase the understanding of energy efficiency, environmental quality and the design of buildings in engineering and architectural education.

Goal 11: Understand influences of HVAC&R on airborne pathogen transmission in public spaces and develop effective control strategies.

To read further about these goals see the pdf on the Internet at: ASHRAE Research Strategic Plan 2010-2015 (Strategic Plan 2010-2015 pdf)

CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

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

Richard L. Rosner, P.E.

ASHRAE Research Promotion Chair

c/o Nassau Suffolk Engineering & Architecture,
PLLC

801 Motor Pkway, Suite 103

Hauppauge, NY 11788

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

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

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

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

Thank you again for all your support!

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



CTTC - HVAC - How to Get the Air From Here to There - The Role of Ducts

I was tempted to entitle this piece "The Duct Tapes", however, in deference to Ed Hertfelder (who chose that title years ago for the many experiential tales he told..... none of which had anything to do with HVAC), I was left with the above. Ducts may be thought of the Rodney Dangerfield of air movement, only thought about when a problem occurs. While we come across copious papers and articles extolling the virtues of the latest air-handler, heat pump or building automation system, it is less frequent that we see anything written related to the design, selection and installation of duct work. What IS seen regularly, in the field, are installations where the best intentioned design was defeated by careless installation.

What then is the function of a duct? Clearly, it is to provide a conduit for the movement of the amount of air required to provide the required levels of heating, cooling and/or ventilation from the air handler/outside air intake to the terminal units in the system. What could be simpler? Once the requisite value of CFM has been determined, with Ductulator in hand, we determine the size of duct required to move the needed volume of air.....or do we? What are some of the concerns which need to be addressed before we can finalize our duct design? Some are technical, some are aesthetic, others are issues of regulatory/code concerns and, always, there are the economic considerations.

Visibility - Most of the time we tend to hide our ductwork in the overhead area, above suspended ceilings or in chases. However, in many cases, the air-handling ducts have been elevated to the position of architectural elements, out in the open for all to see; sometimes in a subtle way...other times in a much more "in-your-face" approach. What does this bode for the Mechanical designer? In most such applications, round section ducts are considered to be more "aesthetically pleasing" than rectangular cross-section ductwork. While oval shaped duct sections could be employed where clearances are an issue, this will, no doubt, increase costs (there's that pesky economic issue) and further limit choices as to material supply.

While the choice of duct material is always of importance, for systems which will be visible and must be pleasing to behold it becomes even more so. Is the ductwork to be Painted? If not painted, perhaps stainless steel? Aluminum? Perhaps one of the "fabric" type ducts? These are all aesthetic decisions, more than likely beyond the control of the mechanical designer, but ones which will have a profound effect on the design and cost of the installed system.

Air Velocity- Even when the installed system is to be more conventional, hidden from view by a dropped ceiling, there are concerns which need to be addressed. Once the required cross-sectional area of the duct is determined, there is some "wiggle room" to make the duct wider and shorter (or somewhat smaller than the ideal design) if needed to avoid conflict with other installed systems or (even worse) structural steel. What must be kept in mind are some absolute limits...if the duct cross-section is reduced too much, even if the requisite volume of air can be moved through it, the increased air velocity may result in an audible noise level which can be bothersome, either locally in the area of the restriction or (if the attached ductwork happens to be resonant at the frequency of the noise) throughout the system. While audible noise can frequently be remediated by the use of sound attenuating material, the use of such a solution will only exacerbate the clearance issues which prompted the reduction in duct size in the first place. Which leads us to....

Duct Insulation - Duct insulation may be used for thermal reasons and/or acoustic reasons (see above). Regardless of the reason, there are decisions to be made. Will the insulation/sound damping material be installed on the inside or the outside of the duct? Ultimately, the designer will have to decide based upon the details of the application, but, as a minimum, must determine if the benefits of internal insulation outweigh the drawbacks. Certainly, if used in an environment such as in a health care facility (where one must allow for the total cleaning/disinfection of the duct in the event of a release of a contaminant to the air handling system) internal insulation may pose a problem.

In any case, whether internal or external to the duct, the additional thickness of the insulation/sound damping will add to the dimension of the space needed for the duct. If the insulation is mounted externally and there is a conflict between, for example, piping, one will usually find the pipe installed such that it is completely compressing the insulation, which will defeat the effectiveness of its thermal qualities, perhaps resulting in localized condensation and corrosion.

CTTC (Cont'd. from Page 10)

Material - We noted above the need to determine the material to be used when the ducts are to be visible, incorporated into the design of the facility as an architectural element. However, even if hidden in a chase or above a suspended or sheetrock ceiling, one must decide what material is to be used; galvanized steel, aluminum, stainless steel, glass-fiber board and so on. This decision (usually, ultimately an economic one) will take into consideration the expected service life, environmental conditions, mechanical protection of the installation and possible need for future modifications.

Mechanical Considerations- If the duct system is part of a required system for, for example, a healthcare facility/shelter which must remain functional after a seismic or meteorological event, appropriately designed and installed seismic restraints may be required. Rooftop duct work should be designed to withstand the same seismic/wind loading which rooftop units to which it is connected are designed to. Where flexible connections are required to isolate sections, either for seismic, acoustic and/or vibration considerations, it is imperative that the sections connected with the flexible connections are properly aligned and located such that the flexible connection is not stressed.

Fire/Smoke Dampers - For duct systems which are required to have fire/smoke dampers installed, care should be taken to ensure that the installation details of the damper are adhered to so as not to invalidate the listing of the device. For ducts used in restaurants, subject to NFPA-96, appropriate thermal insulation and access doors must be provided.

Testing and Balancing - All penetrations in the duct system created for the performance of Testing & Balancing should be sealed in an approved and permanent manner. This is especially a concern when the penetrations so introduced are located in close proximity to a duct smoke detector installed to comply with NFPA-72, as any leakage in a return air duct could result in a dilution of the smoke concentration seen by the duct detector and could result in a failure to alarm.

Sealing - All connections, seams, penetrations and the like should be properly sealed in a permanent manner. This generally would mean the use of an approved mastic material, properly applied (yes....very messy). It is also generally agreed that the one method not to use to seal ducts would be to use duct tape. Although there are some UL Listed materials (UL-181B) which would appear to be usable, these materials, while not posing a fire hazard, in most cases are not thought to be as permanent as a mastic type material.

This is by no means intended as an all-encompassing treatise on HVAC duct design, but rather a summary of those items which frequently get overlooked when designing an air handling system, and to afford the duct system the respect it deserves.

Don Kane, P.E.
CTTC Chair

Membership

First off I would like to say hello and to thank all our new members who signed up in September and October. Our chapter will hold our Membership Promotion nights this month and during the February monthly meeting. Please visit the ASHRAE website at <http://www.ashrae.org> to review and update your bios, and to check if you are up to date with your membership dues. We are always looking for new members to join and attend our meetings. ASHRAE is looking to retain more student members thru their smart start program. Student members should look into this program. It will help you adjust to the membership status. Please see the ASHRAE website for more information.

Charles Lesniak, P.E.
Membership Chairman

Young Engineers in ASHRAE (YEA)

We have had our first back to basics seminar last month. Looking to the year ahead will be continuing our back to basics seminar series during the January meeting. For those who don't yet know, YEA stands for Young Engineers in ASHRAE. Young being 35 and under as of Jan 1st. Our goal is to get younger members more involved in ASHRAE. We encourage you to invite younger employees and coworkers to our monthly meetings. We are also planning a couple of YEA social events separate from our meetings. Details will be forthcoming in this space. If you would like to get involved, we are looking for a couple more YEA committee members.

National YEA leadership conferences will continue into 2013. Dates should be posted to the YEA ASHRAE website and Facebook soon. We have sent several YAE members to these conferences, and everyone has had a positive experience. If you are thinking of going, come speak to myself or Charlie for more information. Sign up for updates at <http://s.zoomerang.com/Survey/WEB22GM7QLYMCP/>.

The next HVAC Design Essentials Training is scheduled for Jan 14-16. This weekend course will cover many of the basics in HVAC design. Scholarships are available for YEA members. The deadline is November 13th. Additional information is available at <http://www.ashrae.org/membership--conferences/--YEA-Scholarship-for-HVAC-Design-Essentials-Workshop>.

Andrew B. Dubel, P.E.
YEA Chairman

Student Activities

October has been a busy month with Student meetings at SUNY Stony Brook and Suffolk Community College.

Our November meeting is designated a student activates 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 <http://www.ashrae.org/membership--conferences/student-zone> is a great place for student to go on line and learn more about ASHREA and the multiple resources available to you, The 2013 Student Design Competition, K-12 /STEM Resource Center, The 2013 Solar Decathlon and much more.

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 www.ashrae.org/scholarships. There are 13 undergraduate scholarships available ranging from 10,000 to 3,000 dollars!

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

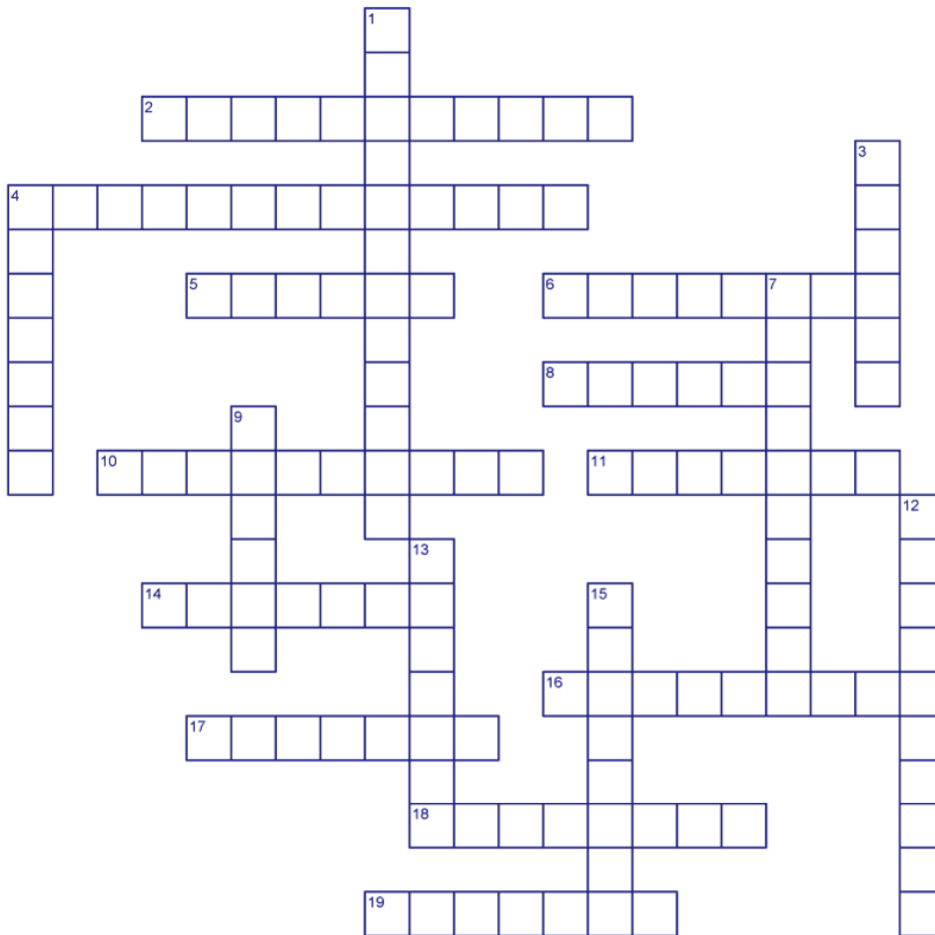
Richard Halley
Student Activities Committee Chair



Donate your old Handbooks

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

History



www.CrosswordWeaver.com

ACROSS

- 2 Hotel hosting chapters silver anniversary dinner dance
- 4 Club hosting chapters annual golf outing
- 5 Proudly displayed at our monthly meetings
- 6 Chapters first president
- 8 Chapter president ten years back
- 10 April 2006 field trip to this laboratory
- 11 Location of recent presidential debate and our 1980 chapter meetings
- 14 April 2009 field trip
- 16 1975 Long Island CRC location
- 17 Picture on February 1991 ASHRAE Journal
- 18 Chapter president in 1973
- 19 Name of chapters newsletter

DOWN

- 1 November 1980 chapter field trip to this airline terminal
- 3 1993 chapter historian
- 4 Received by our chapter in October of 1957
- 7 This newsletter format started in 2002
- 9 Recent special chapter anniversary
- 12 Location of April 1995 past presidents meeting
- 13 Chapter operating guidelines
- 15 1989 Long Island CRC location

The Lynn G. Bellenger Scholarship Fund

Dear ASHRAE Member:

How can ASHRAE make a difference for the development of future women engineers and honor one of our finest?

My answer is the **Lynn G. Bellenger Endowed Scholarship Campaign**. This campaign began with gifts to the Presidential Member Lynn G. Bellenger Memorial Fund. From those gifts, a seed was planted. From that seed, an idea began to take shape of how to honor the outstanding life and service of this former ASHRAE president and to invest in ASHRAE's future. The result is the Lynn G. Bellenger Endowed Scholarship. An ASHRAE scholarship that will be available to assist with the education of our future female members at the undergraduate for students whose primary interests match the mission of ASHRAE: advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.



Lynn was an inspiration to many, both inside and outside the field of engineering. She made a significant contribution to our industry and field through her initiatives on developing better buildings through modeling. She believed in a sustainable world and worked tirelessly to encourage others as they moved ASHRAE's frontier of knowledge and practice forward. As the first female president of ASHRAE, she set a new standard for those who follow in her footsteps. The Bellenger Endowed Scholarship will provide, in perpetuity, an opportunity to women pursuing degrees directly related to her belief in a sustainable world. The ASHRAE Scholarship Trustees will choose recipients of the scholarship.

I am writing to ask for your assistance. How can you assist us in the goal of creating the Bellenger Endowed Scholarship? First, please join me by investing in this fund. Second, encourage others to do the same until we reach our goal of \$100,000, which will make all the difference. The ASHRAE Board of Directors has provided a challenge match to what we raise up to \$25,000 to endow the scholarship. What better way to honor Lynn's memory than to provide the means for others to achieve the same dream?

Please say "yes" to ASHRAE, say "yes" to the future of our industry, and join us in this effort to honor Lynn's commitment to ASHRAE. Remember: A gift to an endowed scholarship is a gift to invest in ASHRAE's future. Please complete the online giving form below.

<http://www.ashrae.org/foundation-online-giving>

Ashrae Society Updates



SOCIETY UPDATES

October 2012

Applications Now Being Accepted for HVAC Design Scholarship

The ASHRAE Learning Institute is hosting a three-day HVAC Design Essentials Training that allows attendees to gain the fundamentals and technical aspects to design, install and maintain HVAC systems. The workshop will be held January 14 – 16, 2013 at ASHRAE Headquarters in Atlanta.

To encourage attendance by young professional ASHRAE members, the YEA Institute offers one full scholarship for attendance to the HVAC Design Level I Training: Essentials. The full cost of registration to Level I of this workshop will be covered by ASHRAE.

Criteria: All applicants must be ASHRAE members and 35 years of age or younger as of January 31, 2013 (*student members are not eligible*). Applicants will be reviewed based on contribution to the industry, ASHRAE involvement and career goals.

Deadline: All applications must be received by the close of business on Monday, November 12, 2012. Please complete the online application [here](#) and submit to Rhiannon Loomis at Rloomis@ashrae.org or mail to Rhiannon Loomis, 1791 Tullie Circle, Atlanta, GA 30329.



ASHRAE Webcast to Focus on Building Energy Performance

ASHRAE's upcoming webcast, titled **Assessing Building Energy Performance: From Principles to Practice**, will broadcast live on **April 18, 2013, from 1:00 – 4:00 pm EDT**. This **FREE** webcast is brought to you by the Chapter Technology Transfer Committee.

"This webcast will focus on the importance of building energy performance and its far reaching implications in both new and existing buildings," said Andy Cochran, Chair of the CTTC Webcast Ad Hoc Committee. "This program will help participants to recognize the opportunities that Assessing Building Energy Performance (ABEP) presents. From recognizing the different approaches, team skills, and knowledge needed to properly assess building energy performance, to the application of ASHRAE building audit levels, this webcast will provide viewers with an understanding of ABEP principles and practical application knowledge."



The webcast presenters are: Christopher Mathis, President, MC Squared, Asheville, NC, Drury Crawley, Ph.D, Director of Building Performance, Bentley Systems, Washington, DC and Jim Kelsey, LEED AP, PE, BEAP, Principal, kW Engineering, Oakland, CA.

Online registration for the webcast will begin on March 18, 2013. For more information on the webcast program, sponsorship opportunities, continuing education credits, and ASHRAE resources related to assessing building energy performance, visit www.ashrae.org/ABEPwebcast. If you have questions about the webcast, call 678-539-1200 or email ashrae-webcast@ashrae.org.

Ashrae Society Updates



SOCIETY UPDATES

October 2012

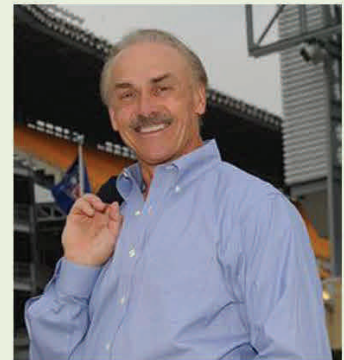
Register For the ASHRAE Winter Conference!

Plenary Speaker Tells Story of Perseverance

Have you registered for ASHRAE's 2013 Winter Conference, Jan. 26-30 in Dallas, Texas? **Register by Nov. 4 and save!**

From its strong technical program to the first-hand experiences offered by its technical tours, the ASHRAE Winter Conference gives attendees opportunities for examining and discussing the latest technology. And don't miss Plenary Session keynote speaker Rocky Bleier.

Bleier had just been drafted for the Pittsburgh Steelers in 1968 when he received a different kind of draft: combat duty for Vietnam. Though he was wounded in both legs while fighting overseas, Bleier embarked on a two-year road to recovery, and eventually pressed on to become one of the Steelers' top leading ground-gainers, passing the 1,000-yard rushing mark in one season and contributing to four Super Bowl victories. His speech, "Be the Best You Can Be," motivates audiences to keep on striving for greater accomplishments.



Bleier shares his remarkable story during the Plenary Session, Saturday, Jan. 26. For more information, visit <http://www.ashrae.org/dallas>.

Specialty Conference Brings Important Topic to Attendees

The principal objective of the Seventh International Cold Climate HVAC Conference, Nov. 12-14, 2012 Calgary, Alberta, Canada, is to provide key elements of a strategy by which scientists, designers, engineers, manufacturers and other decision makers in cold climate regions can achieve good indoor environmental quality (IEQ), with a minimum use of resources and energy.

Some 60 peer-reviewed papers presented by diverse, international authors showcase world-wide perspectives and practices in cold climate design. The Scandinavian Federation of Heating, Ventilation and Sanitary Engineering Associations (Scanvac) and the Federation of European Heating and Air-Conditioning Associations (REHVA) are conference co-sponsors. To register, visit www.ashrae.org/ColdClimate

Young Engineers in ASHRAE (YEA) Hosts Hospitality Suite in Dallas

Attention young professional members age 35 and younger! You are invited to visit the YEA Hospitality Suite on Sunday, Jan. 27, from 4–7 p.m. The suite offers social and networking opportunities and light refreshments are served



Ashrae Society Updates



SOCIETY UPDATES

October 2012

New Faces of Engineering: College Edition

Encourage a Student to Apply for Scholarship and Recognition

The program recognizes outstanding junior or senior (defined as third, fourth or fifth year) ASHRAE student members enrolled in a Bachelor of Science in Engineering program from an ABET Accredited school who are proving themselves to be leaders in the field of engineering. The winner will receive a \$1000 scholarship and have their profile featured on the New Faces of Engineering: College Edition's Facebook page.

Applicants must “like” the [New Faces of Engineering: College Edition Facebook](#) page in order to apply.

To apply to be ASHRAE's New Face of Engineering: College Edition, you must:

- be an ASHRAE member
- be a junior or senior (defined as third, fourth or fifth year) engineering student as of Sept. 1, 2011
- be enrolled in a Bachelor of Science in Engineering program from an ABET Accredited school
- answer four short questions about your experience as an engineering student
- submit one professional-quality head and shoulders photo of yourself in business attire. Photos must be high resolution (300 dpi) to ensure the file size is near 1 MB.

ASHRAE's student New Face of Engineering would demonstrate academic excellence, with a GPA of 3.0 or higher, hold leadership positions within university student organizations, have outstanding communication skills, have a record of some non-engineering related community service and have a proven track record of involvement in the engineering industry. The New Face of Engineering will receive a \$1000 scholarship from ASHRAE. More information can be found [here](#).

Grants Promote the Industry and Gain Recognition For Students

The HVAC&R industry is constantly making strides to improve the technology that makes everyday living possible and better. ASHRAE relies on the research and efforts of young engineers and architects to make advances in the field that will make a difference for future generations.

The **ASHRAE Senior Undergraduate Grant Program** offers students at schools all over the world an opportunity to work on projects that increase their knowledge of the industry. With support and assistance from university faculty, senior undergraduates can work on an ASHRAE-related topic with funding from ASHRAE up to \$5,000 per project.

Applications for the grant must include details about the project and are to be submitted online by faculty in order to be considered. Projects involving the building of working models, testing equipment, experimental teaching aids, and laboratory experiments are encouraged. Grants may cover projects lasting from one academic term up to one year.

The deadline for application submissions is December 17, 2012. Applicants will receive notification of their application status by February 18, 2013. The highest ranking team will be awarded a trip to the 2014 Winter Conference to present their project at the student program. For complete information on the ASHRAE Senior Undergraduate Grant Program, go [here](#).

Ashrae Society Updates

ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference and AHR Expo in Dallas, TX

2 WAYS TO REGISTER

Internet: www.ashrae.org/dallascourses

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Full Day Professional Development Seminar

\$485/\$395 ASHRAE Member -- Earn 6 PDH/.6 CEU or 6 AIA LU credits

The Commissioning Process in New & Existing Buildings

Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Data Center Energy Efficiency

Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Healthcare Facilities: Best Practice Design & Applications

Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Complying with Standard 90.1-2010

Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Energy Modeling Best Practices and Applications: HVAC/Thermal

Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.



Half Day Short Courses

\$159/\$119 ASHRAE Member -- Earn 3 PDH/.3 CEU or 3 AIA LU credits

Air-to-Air Energy Recovery Fundamentals

Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Humidity Control: Applications, Control Levels and Mold Avoidance

Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Air-to-Air Energy Recovery Applications: Best Practices

Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.



Application of Standard 62.1-2010:

Multiple Spaces Equations & Spreadsheet

Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Combined Heat & Power: Design through Operations

Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.



Understanding Standard 189.1-2011 for High-Performance Green Buildings

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.



Commissioning Process & Guideline 0

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Evaluating the Performance of LEED®-Certified Buildings

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Optimization of HVAC Systems & Components: Techniques & Real-World Examples

Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.



Energy Management in New and Existing Buildings

Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Avoiding IAQ Problems

Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Designing Toward Net Zero Energy Commercial Buildings

Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Understanding & Designing Dedicated Outdoor Air Systems

Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond

Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.



Ashrae Society Updates

HVAC Design Training

Jan 14-18, 2013 • Jan 30-Feb 1, 2013 (Level I only) • Mar 18-22, 2013 • Jun 3-7, 2013 • Aug 12-16, 2013

HVAC Design: Level I - Essentials

Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

Registration is \$1239, \$989 (ASHRAE Member)

Enroll 3 or more participants from the same company and save!



HVAC Design: Level II - Applications

Developed by industry-leading professionals, the workshop provides participants with advanced level information about designing, installing and maintaining HVAC systems that can be put to immediate use. Participants will gain an in-depth look into Standards 55, 62.1, 90.1, and 189.1 and the Advanced Energy Design Guides, as well as a range of other HVAC topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Registration is \$829, \$679 (ASHRAE Member)

Enroll 3 or more participants from the same company and save!

Visit www.ashrae.org/hvacdesign to register

Ashrae Certifications to be Offered at AHR Expo and Ashrae Winter Conference

ASHRAE has certified more than 1,000 HVAC professionals. Are you one of them? Earn recognition for your knowledge and expertise.

The 2013 ASHRAE Winter Conference and AHR Expo in Dallas will bring together more than 30,000 visitors from around the world to learn, network, and buy and sell HVAC&R products and services. All six of ASHRAE's certification exams will be administered at the conference.

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

To participate in this exam administration, please submit an application by January 14, 2013 for the program in which you're interested. There will be no on-site registration and seating is limited. To get started, go to www.ashrae.org/ASHRAEcertificationatAHR to find out more about the programs. Each program has its own Candidate Guidebook that contains important information about eligibility criteria and available resources to help prepare for the exam. We encourage you to read the Guidebook before completing a program's application.

Take advantage of the opportunity to earn an ASHRAE certification while you're attending ASHRAE's Winter Conference and AHR Expo. I look forward to seeing you in Dallas!

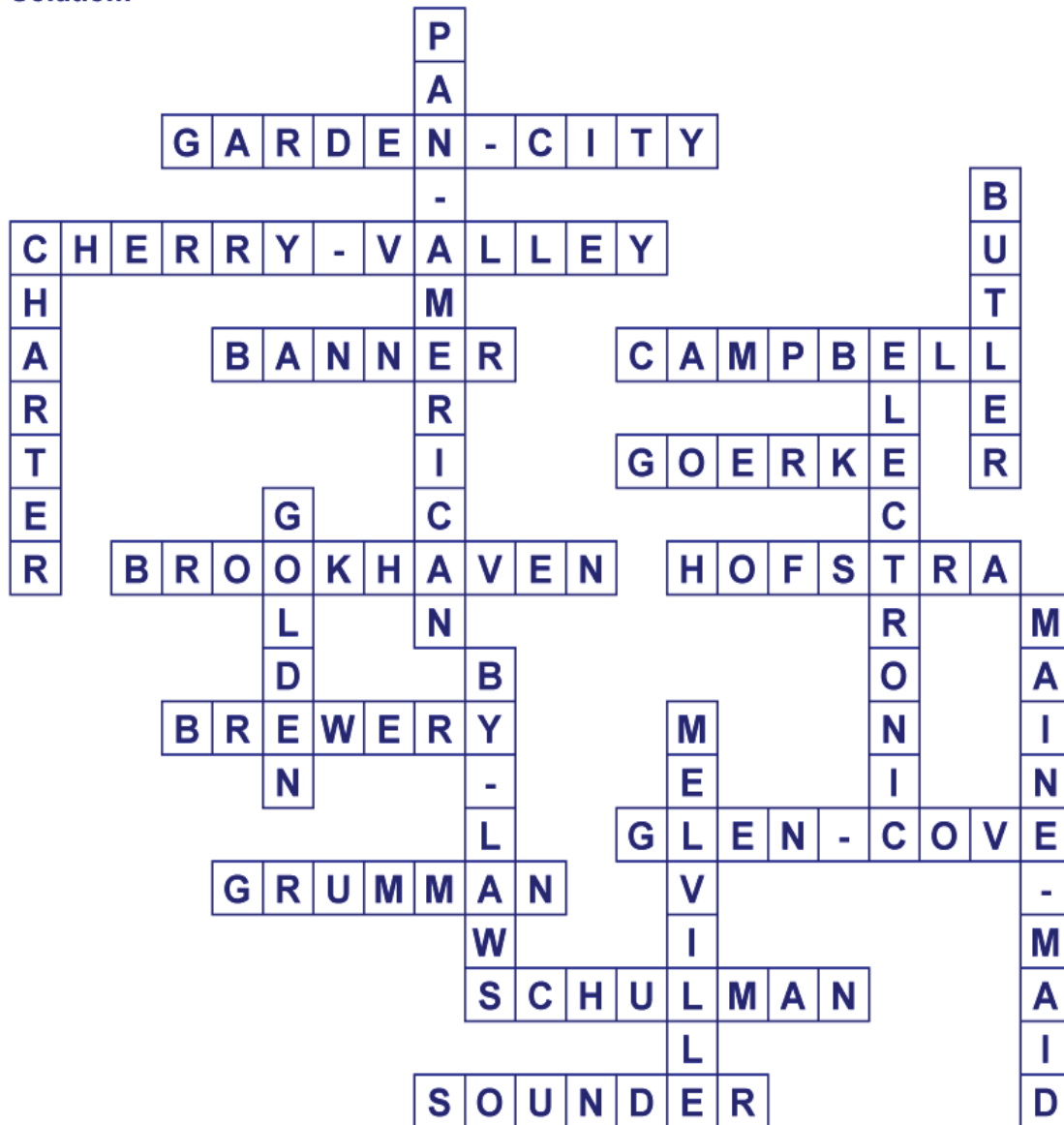
Eric Dupree

Communications Coordinator - Certification



History - The History Challenge (Crossword Puzzle Answers—Cont'd from Pg 13)

Solution:



ASHRAE Expresses Sympathy and Support for Members Affected by Hurricane Sandy



Shaping Tomorrow's
Built Environment Today

My fellow ASHRAE members:

In times of trouble and tragedy, our thoughts first turn to the well-being of family and friends. Today, our ASHRAE family expresses the Society's heartfelt sympathy and support to our members who live in the areas that have been devastated by Hurricane Sandy.

As cities and towns begin to rebuild, I'm confident that the dedication and expertise of our members will prove crucial. Our volunteers will serve as leaders in the coming months in ensuring those communities have safe, comfortable and healthy buildings in which your neighbors can live and work.

Please know that ASHRAE has resources in place to help our members as part of its Natural Disaster Relief Action Plan. These resources include various publications that may be helpful, such as the ASHRAE Position Document on Limiting Indoor Mold and Dampness in Buildings at www.ashrae.org/positiondocuments. In addition, waiving membership dues and replacing the current Handbook may be available as warranted and upon request.

While we recognize that internet access may be limited, if any member in an area impacted by the storm needs to take advantage of the resources in the Action Plan, please respond to me when you are able, and I will put you in touch with the proper staff and volunteers to help you.

At this most difficult time, may members in those areas gain inner strength from knowing how deeply the ASHRAE community cares for their well being. We will continue to keep them in our thoughts.

Sincerely,

Tom Watson, P.E., Fellow ASHRAE, Life Member
ASHRAE President, 2012–13

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 visit our website at www.walesdarby.com

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