



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

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### President's Message

Happy New Year to everyone, I wish you all the best of luck, health, and happiness in 2013. Last year moved by very fast with some extreme events that we will all remember for the rest of our lives. Our hearts and prayers go out all those who lost someone or something special to them. The New Year brings new beginnings and new opportunities and I am looking forward to those challenges.



This month's meeting we will have two excellent presentations; Evans Lizardos will be presenting session II of our "Back to Basics" on Pumping System Design. Following we have Michael Ganz, Esq. speaking from a legal perspective on Dispute Resolution. Both of these presentations are PDH approved.

Our committees are firing on all cylinders and as always we are looking for volunteers to join our team. I know Rich Rosner has been working hard on the product directory and it will be going to print shortly. I hope you are able to take advantage of this great tool for find local products and resources. We are also looking into other corporate opportunities such as product show cases and meeting sponsors to help support our chapter and RP goals.

As you already know at the end of January is the winter meeting for ASHRAE and the AHR show. [More Info Here](#) What you may not know is next month has an Engineers Week. This year's Engineers Week theme celebrates you—engineers, engineering students, and technicians—and all of the amazing things you do every day to make the world a better place. Our local EJCLI chapter will be having a one day seminar in February with multiple opportunities to gain PDH credits as well and I will let you know more shortly. You can also learn more about National Engineers Week [Here](#)

Once again thank you to all the volunteers and board members I appreciate all your time and dedication to our chapter and community. I look forward to seeing you all at the meeting and if you can bring a friend and introduce them to our chapter it really is a great group to be a part of and I thank you for that.

Kindest Regards,

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

### CHAPTER MONTHLY MEETING

<b>DATE:</b>	<b>Tuesday, January 8, 2013</b>
<b>TIME:</b>	6:00 PM - Cocktails/Dinner 6:30 PM - Back to Basics #2 6:45 PM - Dinner Presentations 8:45 PM - Conclusion
<b>LOCATION:</b>	Westbury Manor South Side of Jericho Tpke. 25 Westbury, NY 11590
<b>FEES:</b>	
Members -	\$40.00
Guest -	\$45.00
Student -	\$15.00

*Reservations requested, but not required.*

**Call (516) 333-7117**

## Long Island Chapter Officers & Committees

### ASHRAE 2012/2013 OFFICERS

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

### ASHRAE 2012/2013 COMMITTEES

COMMITTEE	NAME	PHONE	FAX	EMAIL
Programs & Special Events	Andrew Manos, LEED AP	631.632.2791	631.632.1473	<a href="mailto:andym22@optonline.net">andym22@optonline.net</a>
Membership	Charles Lesniak, P.E.	516.484.1020	516.484.0926	<a href="mailto:charles.lesniak@leapc.com">charles.lesniak@leapc.com</a>
Chapter Technology Transfer (CTTC)	Don Kane, P.E.	631.737.9170	631.737.9171	<a href="mailto:dkane@csfllc.com">dkane@csfllc.com</a>
Newsletter Editor	Liset Cordero	212.643.9055	212.643.0503	<a href="mailto:liset.cordero@mgepc.net">liset.cordero@mgepc.net</a>
Research Promotion	Richard Rosner, P.E.	631.737.9170	631.737.9171	<a href="mailto:rrosner@csfllc.com">rrosner@csfllc.com</a>
Historian	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	<a href="mailto:thomas.fields@mgepc.net">thomas.fields@mgepc.net</a>
Student Activities	Richard Halley	718.269.3809	718.269.3725	<a href="mailto:rhalley@trane.com">rhalley@trane.com</a>
Young Engineers in Training	Andrew B. Dubel, P.E.	212.967.7651	212.967.7654	<a href="mailto:andrew.dubel@leapc.com">andrew.dubel@leapc.com</a>
Webmaster	Thomas Fields, P.E., LEED AP	212.643.9055	212.643.0503	<a href="mailto:thomas.fields@mgepc.net">thomas.fields@mgepc.net</a>
Nominating	Michael Gerazounis, P.E., LEED AP	212.643.9055	212.643.0503	<a href="mailto:michael.gerazounis@mgepc.net">michael.gerazounis@mgepc.net</a>
Reception & Attendance	Lee Feigenbaum, LEED AP BD+C	516.558.2075		<a href="mailto:lfeigenbaum@emcor.net">lfeigenbaum@emcor.net</a>
PR & Engineering Joint Council of LI	Brian Simkins, LEED AP	203.261.8100	203.261.1981	<a href="mailto:bsimkins@accuspecinc.com">bsimkins@accuspecinc.com</a>
Golf Outing	Peter Gerazounis, P.E., LEED AP Steven Friedman, P.E., HFDP, LEED AP	212.643.9055 212.354.5656	212.643.0503 212.354.5668	<a href="mailto:peter.gerazounis@mgepc.net">peter.gerazounis@mgepc.net</a> <a href="mailto:sfriedman@akfgroup.com">sfriedman@akfgroup.com</a>

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## 2012 Ashrae Holiday Party



## 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	415	350	680	625	2,500

## Chapter Monthly Meeting - Program for 2012/2013

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



## Board of Governors Meeting Minutes

**Attendees:**

Brian Simkins – President, Andy Manos – Pres-Elect, Richard Rosner – V. President, Tom Fields – Financial Secretary, Don Kane – Secretary, Richard Halley – BOG, Andrew DuBel - BOG

Guests: Nancy Román

The meeting was called to order at 5:30pm by Brian Simkins - President, at Westbury Manor.

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

**President**- Brian thanked Andy Manos for chairing last month's BOG meeting and noted that the Chapter's portion of the 50/50 raffle had been donated to assist in the *Sandy* relief effort. He asked for ideas for future fundraising for the Chapter, including more advertising in the Sounder, sponsorship of meeting cocktail hours and perhaps another clambake or combination picnic/clambake. All submissions for the **Sounder** should be submitted to Liset on or before each month's deadline. Brian asked all to routinely review their MBO's for the year to ensure achievement and to update PAOE points regularly, on-line.

**President-Elect/Programs** - Andrew Manos stated that he is attempting to contact Mark McCracken to arrange for him to be a presenter for the joint meeting with the USGBC. All other meeting presentations have been arranged. Andy indicated he will assist RP in obtaining cocktail hour sponsors and will assist Charlie Lesniak with invoicing for newsletter advertisements.

**Chapter Technology Transfer** - Don Kane reported that, due to storm related events, he had rescheduled following up with the representative from Sysco to coordinate the technical presentation part of the April Refrigeration Field Trip. He will do so prior to the next BOG meeting.

**Treasurer** – Tom Fields report for Charlie Lesniak that the money market fund has been liquidated and rolled into the general account (current balance \$16,121.33). A separate account for future CRC expense will be established.

**History** – Tom Fields will arrange to interview a past president.

**Research Promotion** - Richard Rosner reported that the Chapter presently has received \$3,095 toward the annual goal of \$14,681. The next RP Night will be at the February 2013 meeting. "Full Circle" for BOG contributions has been reached. Richard stated that the Vendor Book solicitations are continuing. A calling campaign for donors will commence next week.

**Membership Promotion** – A new report is required for member status. Students will be encouraged to fill out the membership form. Andy Manos will contact EJCLI regarding advertising and cross-promotion. Don Kane will send Andy Haimes' contact info to Andy.

**Student Activities** – Richard Halley reported that the meeting at Stony Brook has been rescheduled due to the storm, as was the meeting at Suffolk County Community College. A meeting with Hofstra is also planned. All students who attend Chapter and Student Chapter meetings will be encouraged to sign up for membership.

**YEA** – Andrew Dubel reported that Lee Feigenbaum expressed interest in attending the YEA Leadership retreat. Andrew will look into availability of funding to cover the program and lodging. The Chapter would cover transportation. Andrew is still researching possible YEA activities, as a Chapter or jointly with NYC. He indicated that bowling, in NYC, would be a difficult activity to arrange due to the need to guarantee a minimum headcount. A fishing trip was suggested as a possible event, perhaps not limited to YEA to ensure better turn out.

## Board of Governors Meeting Minutes

**Honors and Awards** - Carolyn Arote is continuing researching requirements and procedures for ASHRAE service awards. Andy Manos is planning on attending the Dallas conference in January, and Rich Rosner is considering attendance. The Chapter gets credit for member attendance at these events.

**Web Master** - Our website needs to be updated.

**Golf** - May 6<sup>th</sup>, 2013 event date has been confirmed with Cherry Valley.

**Old Business** - There was no old business.

**New Business** – There was no new business.

**Time/Place of next BOG Meeting** – January 8th, 2013. Westbury Manor

The meeting was adjourned at 6:00 PM.

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

## 2012 Ashrae Holiday Party



## January Program



### Dinner Presentation

***“Dispute Resolution such as Mediation, Arbitration and Litigation (the pros and cons of each and what to do)”***

*Presented by*

***Michael D. Ganz, Esq.  
And  
Marvin L. Schechter, Esq.***

**Attendees  
Will Earn  
2 PDH's!**

<b>DATE:</b>	<b>TUESDAY, JANUARY 8, 2013</b>		
<b>Time:</b>	6:00 PM - Cocktails and Hors D'oeuvres 6:45 PM - Dinner Presentations 8:45 PM - Conclusion	<b>Fee:</b>	\$ 40.00 Member \$ 45.00 Guest \$ 15.00 Student
<b>Location:</b>	<b>WESTBURY MANOR</b> (516) 333-7117 Jericho Tpke (South Side), 3/10 of mile east from Glen Cove Rd., Nassau County, NY. <b>Directions are posted at @ <a href="http://www.ashraeli.org">www.ashraeli.org</a>.</b>		
<b>Presentation:</b>	<p><b>Protecting and Collecting Aged Accounts Receivables</b> – The subject would address how to preserve your rights for old accounts receivables through payment bonds, mechanic's liens and other methods.</p> <p><b>Alternative Dispute Resolution and Litigation</b> - This subject would address dispute resolution such as mediation, arbitration and litigation, the pros and cons of each, what to expect?</p> <p><b>Participants will receive 1 PDH credit.</b></p> <p><b>In addition Evans Lizardos, PE, LEED AP will be presenting Part II – Design and Analysis of Pumping System Design of the 'Back to Basics' series. Part II will discuss the effect of pump system pressure by the location of the expansion tank in a high or low static condition and a design method to determine the pressure at any point in a closed pumping station.</b></p> <p><b>All attendees will receive an <u>additional 1 PDH.</u></b></p>		
<b>About our Speakers:</b>	<p><b>Michael D. Ganz, Esq.</b> - B.S. Mechanical Engineering (SUNY at Buffalo), J.D. (Brooklyn Law School); Former Project Engineer for NYCDEP and NYSOGS; currently a Partner with Tunstead &amp; Schechter engaged in all phases of complex commercial litigation, primarily in construction law.</p> <p><b>Marvin L. Schechter, Esq.</b> - B.S. Civil Engineering (City College), J.D. Brooklyn Law School. Founding partner of Tunstead &amp; Schechter. Performs legal services exclusively in the construction field (contract litigation, arbitration, negotiation, mediation, general corporate matters and analysis of construction claims.)</p>		

CHAPTER MAY NOT ACT FOR SOCIETY

An International Organization

## Research Promotion

I am happy to say the Lynn Bellenger fund has been generously funded and the society is going to be able to make this onetime funded, perpetual giving fund into multiple scholarships each year in Lynn's name from the interest generated by the fund monies. With Lynn being our first woman ASHRAE president, the Bellenger Scholarship will be awarded to deserving undergraduate engineering students pursuing degrees in a field related to HVAC&R. Lynn was a model ASHRAE President and supported our chapter and will be sadly missed. For information on students applying for an ASHRAE scholarship please go to the web at: <http://www.ashrae.org/membership--conferences/student-zone/scholarships-and-grants/ashrae-scholarship-program> or contact Rich Halley our chapter Student Activities Chairman.

This year's overall society's resource promotion goal is \$2,190,000 with many research projects on board. Our chapter is expected to raise \$14,681 or more towards the overall goal and we have already raised \$3,240 to date, even with super storm Sandy holding us back.

I 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 January 15th which has been extended due to super storm Sandy. If you participated last year you should have received a reminder and also a chance to add or subtract information for your listing. If you weren't in last year's issue the cost is \$250, contact me and we will get you listed. 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.

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.

### CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

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

Richard L. Rosner, P.E.  
ASHRAE Research Promotion Chair  
c/o Nassau Suffolk Engineering & Architecture, PLLC  
801 Motor Pkway, Suite 103  
Hauppauge, NY 11788

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

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

- 4) You can contribute directly on-line. [www.ashrae.org](http://www.ashrae.org)

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

Thank you again for all your support!

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





## CTTC

**BIOMIMICRY - THE REAL GREEN?**

One cannot open a copy of any of the HVAC related trade publications, manufacturers' literature and/or web-based "e-letters" without reading of the latest in technology which, one is told, will reduce energy consumption, improve efficiency, allow for fast communication between components of the system and (no doubt sooner than later based upon the way the Europeans are attempting to address the tide of waste material which threatens to overwhelm us), allow the component parts to be recycled or re-purposed, to keep this technological flotsam and jetsam out of the waste stream. Yet, it seems that every technological advance which is intended to make our systems better performing and more efficient requires more advanced controls, which in turn require adding more computers and/or controllers increasing the requirements for power.....both amount and quality. Somehow, this does not seem to be on the track to save energy. At least not if you are looking at the big picture. What is one to do? Apparently this was the problem faced by the design group when envisioning the Eastgate Centre, in Harare, Zimbabwe. The solution, it seems, was found in the habits of the termite. More specifically those which are found in Africa and Australia. By learning from these little creatures, it is claimed that the passively air conditioned Eastgate Centre requires 10% of the energy normally required for a structure that size. How was this accomplished? Through the wonders of Biomimicry (the study of nature's best ideas and how to imitate them to solve human problems), the processes and procedures used by the African and Australian termites to comfort control the queen termite's chamber were migrated to a human scale, to provide for the heating and cooling of a structure. While not all of the approaches used by our termite technologists scale well to human applications (especially with regard to the termite approach to the elimination of fecal matter), much of what was learned from studying the termite mounds in Africa and Australia is directly transferrable to building HVAC design.

What are the basic requirements of a building HVAC system? Very simply, cooling, heating, ventilation, humidity control and a way to provide communication between components of the system. If we are trying to make this a "green" building, we would also strive to provide for recycling and efficient waste disposal.

Interestingly enough, it seems that our termite friends have been flogging this climate control thing for fifty million years. There seem to be a whole lot of them, so they must be doing something right, and it was only a matter of time before someone took notice. Let's be clear, we are not talking about the typical Long Island variety of termite...where the only external manifestation one will see (prior to the house starting to settle when the sill plate has been turned into Swiss cheese) may be some small mud tubes....these African and Australian termites build LARGE mounds....up to twenty feet high and, in some cases, thirty feet in diameter. The colony may extend even deeper (up to fifty feet or more) into the ground, especially in arid areas where they may extend galleries down to water tables at 200 feet below ground level. Much as humans utilize "load shedding" algorithms to drop non-essential load when brown-outs are threatened, termites have been found to selectively allow sections of their mounds to dry out, so they can maintain the queen's royal chamber at the required humidity and temperature. In this regard, the mean daily temperature in the nest can be controlled within 0.5°C of 30 °C, year round.

So...how do they do this? It turns out that researchers have found several mechanisms at work in the termite mounds examined. While they both involve the construction of tubes and passageways throughout the mound, relying on stack effect for air movement, some of these tubes result in external venting (the "open" system) while others circulate air within the mound and rely on the heat exchange between the fluted exterior wall of the mound and the air passing by on the inside and outside to raise or lower the interior temperature as needed, while relying on a diffusion mechanism to purge the stale air and induce outside air. As our termite friends do not have access to VAV boxes or dedicated outside air sources, they rely, instead, on myriad passageways which allow either outside air directly, or through the earth (if cooling is required), varying the flow of air by alternately opening and closing the passageways with a mixture of mud and other "construction materials" (remember the earlier comment about "waste disposal"). It is also reported that researchers have actually used small anemometers to measure convective current flow in the mound air channels (I'll leave this for the TAB people to comment on). How is this process controlled? We are told (by those who have made the study of these little critters their life's work) that two major mechanisms are used for communication. Soldier termites (most of which are female) essentially bang their heads against the gallery walls to generate vibrations to warn others in the colony that they are in danger. The worker termites (the ones opening and closing all those air passageways) are guided by scent trails using pheromones. The soldiers and the workers are almost always blind (not that there is much to see in the mound).

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

With heating, cooling and communication addressed, we need to explore humidity control. The African termites, since they do not have the internal ability to digest wood products (as do other species), rely on the ability of fungi (whose growth is provided for in "combs" in the mound) which can digest the wood brought to them by the worker termites. Metabolic water is liberated, in addition to a sugary material remaining after the fungi digest the wood, used by the termite to support life. There are some researchers who have questioned the nutritive benefit of the fungi to the termite, but agreement seems to exist with regard to the contribution to humidity of the mound. Additionally, where the ambient humidity level is insufficient, the termites build tunnels down into the water table to draw moisture up to the colony. In order to preserve this humidity, termites have been found to add clay to the mound structure to prevent evaporation of the water in the inside air.

So far, we have a picture of a fairly efficient structure to support the needs of the termite colony with regard for food, moisture and shelter. In this era of recycling, one must wonder, what happens to these huge mounds after the colony has moved on? It turns out that our "green" termites have this covered too. Some mounds are taken over by new termite colonies while mounds which have been completely abandoned are used as food by both animals and human inhabitants of the area, due to the high level of nutrient (high in fat and protein) in the material. Additionally, vegetation grows well on and around the mounds, providing food for other animals.

In summary, these little creatures, dating back to the Eocene and Miocene eras, seem to have some very useful approaches to passive heating and cooling which have, in fact, been applied to human designed structures, to minimize energy requirements.

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



## Young Engineers in ASHRAE (YEA)

Hope everyone had a great holiday and is enjoying the new year. This month we will have another back to basic seminar in January. Evans will continue his series on the basics of hydronic systems intended for our YEA members. For those who don't yet know, YEA stands for Young Engineers in ASHRAE. Young being 35 and under as of Jan 1<sup>st</sup>. 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.

The ASHRAE winter meeting will also be held in January 28 – 30. There will be a number of YEA events during the conference including a YEA hospitality suite! For more information look at [www.ashrae.com/YEA](http://www.ashrae.com/YEA).

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/>.

Have you liked ASHRAE YEA on Facebook yet? Take a look at <http://www.facebook.com/ashraeYEA>. ASHRAE can be found at <http://www.facebook.com/ASHRAEupdates>. They can also be followed on twitter at <https://mobile.twitter.com/ashraenews>.

**Andrew B. Dubel, P.E.**  
**YEA Chairman**

## Membership

Our chapter will hold our next Membership Promotion night 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.

Your membership in ASHRAE supports the improvement of quality of life around the world making big ideas reality while also providing you with professional resources, knowledge and connecting with your HVAC&R peers around the world. Your membership also affords you numerous benefits to stay connected with your peers, gain insight on industry issues and remain in the know about your profession.

Former members can either rejoin as a new member online or via print application, or reinstate. Many former members want to keep their years of tenure, so they choose to reinstate with back dues. To reinstate your membership, you must contact ASHRAE staff. Each former member's situation is different, so we want to offer the most suitable reinstatement option. Contact the Member Contact Center at 800-527-4723 (US/Canada) or 404-636-8400 (International) and ask a representative about reinstating your membership. You can also send an email to [membership@ashrae.org](mailto:membership@ashrae.org), with the subject line of 'Membership Reinstatement.' If possible, include your former member number.

[Renew Membership](#)

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

## History

Many historical articles and information can be found on the ASHRAE website, at <https://www.ashrae.org/about-ashrae/ashrae-and-industry-history>. The site includes links to any ASHRAE Journal article back to 1997. Of particular interest may be the histories of the American Society of Heating and Ventilating Engineers (ASHVE) and the American Society of Refrigerating Engineers (ASRE). Included is the history of the merger of these organizations into ASHRAE in 1959.

The Abstract Archives are a member benefit consisting of an online index of almost 7,000 abstracts of papers and publications from ASHRAE. It is a useful tool for identifying many papers and articles that are not available through the online bookstore.

***Thomas J. Fields, P.E., LEED AP***  
***History Chair***

## Student Activities

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

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.

Students who are currently enrolled or soon to be enrolled in an engineering undergraduate degree should take a look at [www.ashrae.org/scholarships](http://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***



## New AIA Contracts

### AIA RESPONDS TO MARKET TREND FOR “GREEN PROJECTS” WITH NEW AIA CONTRACT FORMS

By Michael D. Ganz, Esq

**Today, more and more buildings are being designed and constructed as “green projects”.** In the United States (and in other countries around the world) LEED certification is the recognized standard for measuring building sustainability. The LEED green building rating system is designed to promote design and construction practices that increase profitability while reducing the negative environmental impacts of buildings and improving occupant health and well-being. LEED certification includes a rigorous third-party commissioning process and a rating system offers four certification levels for new construction -- Certified, Silver, Gold and Platinum which correspond to the number of credits accrued in five green design categories: (a) sustainable sites, (b) water efficiency, (c) energy and atmosphere, (d) materials and resources and (e) indoor environmental quality. There are other third-party certifications for green projects such as The Green Globes System. In addition, Energy Star for energy efficiency programs requires third-party certification. These certifications provide market recognition of a building’s environmental attributes and are being required of more projects, not only the high profile projects of the past.

In response to this market trend, in 2011, the American Institute of Architects (“AIA”) released its AIA D503-2011 Guide for Sustainable Projects to assist owners, contractors, and architects with drafting contracts for projects seeking some form of sustainable project goal. The D503-2011 contains an overview of legal and practical issues arising on green building projects and model contract language that can be added to the standard AIA contract forms to address sustainable project goals.

However, as a follow-up to the D503-2011 Guide for Sustainable Projects, the AIA released new contract forms in May 2012 to address these same issues. These new contract forms include the A101-2007 SP (Owner-Architect Agreement); A201-2007 SP (General Conditions); A401-2007 SP (Contractor-Subcontractor Agreement); B101-2007 SP (Owner-Architect Agreement); C401-2007 SP (Architect-Consultant Agreement); and B214-2012 (Scope of LEED Certification Services for Architect). All of these forms with the exception of the B214-2012 are generally modified versions of the conventional 2007 AIA contract forms with additions relating specifically to sustainable project goals. (See below for key additions)

The new AIA contract forms contain several new defined terms that project participants will need to learn and become familiar (See Section 1.1.9 below). The “Sustainability Objective” is the defined sustainable goal for the project, which could include third-party certification or other sustainable goals not involving project certification or registration. Once the “Sustainability Objective” is defined, the “Sustainable Measures” are identified, including specific design elements or construction means or methods that are necessary to achieve the “Sustainability Objective”. The “Sustainability Plan” is the document that specifically identifies and describes the “Sustainability Objective” and that allocates roles and responsibilities for individual achievement of the “Sustainable Measures”.

These new AIA contract forms contain other notable provisions with which contractors must familiarize themselves. For instance, there are rigorous additional provisions for “cleaning up” the site. The Contractor may be required to recycle, reuse, remove or otherwise dispose of materials in accordance with the projects “green requirements”. The Contractor must also prepare and submit to the Architect and Owner a construction waste management and disposal plan setting forth the procedures and processes for salvaging, recycling or disposing of construction waste generated from the project.

Another crucial provision for a Contractor has been added to the standard A201 form mutual waiver of consequential damages in which the Owner and Contractor waive indirect damages against each other should there be a breach of contract. For example, in the A201, the Owner waives the indirect damages of loss of use, rent and the Contractor waives indirect damages for loss of bonding and indirect delay damages such as additional home office overhead. The new AIA A201-SP form adds the provision that the Owner waives “*damage resulting from failure of the Project to achieve the Sustainable Objective or one or more of the Sustainable Measures including unachieved energy savings, unintended operational expenses, lost financial or tax incentives, or unachieved gains in worker productivity.*” This provision is ex-

## New AIA Contracts (Continued from Page 13)

tremely important to the Contractor since those damages to the Owner could be substantial and in excess of the Contractor's contract price for the project.

The new sustainable project versions of the A101, A201, A401, B101, and C401 conventional contract documents relate only to projects utilizing a design-bid-build project delivery method. Projects utilizing other delivery methods, such as design/build, do not yet have AIA contract forms addressing these issues. However, the model contract language outlined in the D503-2011 Guide for Sustainable Projects may be utilized for these types of projects in order to address the same type of sustainability process.

The B214-2012 is an update from AIA's prior LEED Certification exhibit, which was originally released as the B214-2007. The B214-2012 document can be used as an addendum to the B101 Owner-Architect Agreement, where the Architect is also going to perform the services relating to LEED Certification. However, the B214-2012 could also be used as the basis for a separate agreement between Owner and an independent LEED consultant for the project. Unlike the other new sustainable contract forms, which can apply to a broad range of sustainable project goals, the B214-2012 is specifically designed for a project that is seeking certification as a LEED project.

Project participants involved in any aspect of green building or sustainability should familiarize themselves with these new contract forms and evaluate whether these contracts are right for their particular projects. Even if you choose not to use the new contract documents, these new forms should nonetheless serve as a good excuse to review (and perhaps to modify) old contract forms to ascertain whether those forms effectively address the unique aspects of projects incorporating sustainability goals.

### Key Additions to Standard AIA-201 2007 for Sustainability Projects

#### §1.1.1 The Contract Documents

The Sustainability Plan is made part of the Contract documents.

#### §1.1.9 Special Definitions

##### §1.1.9.1 Sustainable Objective

The Sustainable Objective is the Owner's goal of incorporating Sustainable Measures into the design, construction, maintenance and operations of the Project to achieve a Sustainability Certification or other benefit to the environment, to enhance the health and well-being of building occupants, or to improve energy efficiency. The Sustainable Objective is identified in the Sustainability Plan.

##### §1.1.9.2 Sustainable Measures

A Sustainable Measure is a specific design or constructive element, or post occupancy use, maintenance or monitoring requirement that must be completed in order to achieve the Sustainable Objective. The Owner, Architect and Contractor shall each have responsibility for the Sustainable Measure(s) allocated to them in the Sustainability Plan.

##### §1.1.9.3 Sustainability Plan

The Sustainability Plan is a Contract Document that identifies and describes the Sustainable Objective, the targeted Sustainable Measures: implementation strategies selected to achieve the Sustainable Measures, the Owner's, Architect's and Contractor's roles and responsibilities associated with achieving the Sustainable Measures, the specific details about design review, testing or metrics to verify achievement of each Sustainable Measure and the Sustainability Documentation required for the Project.

## **New AIA Contracts (Continued from Page 14)**

### **§1.1.9.4 Sustainability Certification**

The Sustainability Certification is the initial third-party certification of sustainable design, construction or environmental or energy performance, such as LEED, Green Globes™, Energy Star or another rating or certification system, that may be designated as the Sustainable Objective or part of the Sustainable Objective for the Project. The term Sustainable Certification shall not apply to any recertification or certification occurring subsequent to the initial certification.

### **§1.1.9.5 Sustainability Documentation**

The Sustainability Documentation includes all documentation related to the Sustainable Objective or to a specific Sustainable Measure that the Owner, Architect or Contractor is required to prepare in accordance with the Contract Documents. Responsibility for preparation of specific portions of the Sustainability Documentation will be allocated among the Owner, Architect and Contractor in the Sustainability Plan and may include documentation required by the Certifying Authority.

### **§1.1.9.6 Certifying Authority**

The Certifying Authority is the entity that establishes criteria for achievement of a Sustainability Certification and is authorized to grant or deny a Sustainability Certification.

### **The Owner's Additional Responsibilities**

§2.2.6 The Owner shall perform those Sustainable Measures identified as the responsibility of the Owner in the Sustainability Plan, including any approved changes, or as otherwise required by the Contract Documents. The Owner shall require that each of the contractors and consultants perform the services or work assigned to them in accordance with the Sustainability Plan.

§2.2.7 The Owner shall comply with the requirements of the Certifying Authority as they relate to the ownership, operation and maintenance of the Project both during construction and after completion of the Project.

### **The Contractor's Additional Responsibilities**

§3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents, including any Sustainability Measures identified as the responsibility of the Contractor in the Sustainability Plan.

§3.2.2.1 The Contractor shall meet with the Owner and Architect to discuss alternatives in the event the Owner or Architect recognizes a condition that will affect achievement of a Sustainable Measure or achievement of the Sustainable Objective. If any condition is discovered by, or made known to, the Contractor that will adversely affect the Contractor's achievement of a Sustainable Measure for which the Contractor is responsible pursuant to the Sustainability Plan, the Contractor will promptly provide notice to the Architect and meet with the Owner and Architect to discuss alternatives to remedy the condition.

§3.11.2 The Contractor shall be responsible for preparing and completing the Sustainability Documentation required from the Contractor by the Contract Documents, including any Sustainable Documentation required to be submitted after Substantial Completion. The Contractor shall submit the Sustainability Documentation to the Architect in accordance with any schedules or deadlines set forth in, or as otherwise required by the Contract Documents. In the absence of schedules or deadlines for submission of Sustainability Documentation in the Contract Documents, the Contractor will submit the Sustainability Documentation with reasonable promptness so that the Architect may submit the Sustainability Documentation to the Certifying Authority.

### §3.15 Cleaning Up

§3.15.1 The Contractor shall also recycle, reuse, remove or dispose of materials as required by the Contract Documents.

§3.15.2 The Contractor, in accordance with the Contract Documents, shall prepare and submit to the Architect and Owner a construction waste management and disposal plan setting forth the procedures and processes for salvaging, recycling or disposing of construction waste generated from the Project.

### §9.8 Substantial Completion

§9.8.1 Except for that portion of the Sustainability Documentation which by its nature must be provided after Substantial Completion, the Contractor shall submit all other Sustainability Documentation required from the Contractor by the Contract Documents no later than the date of Substantial Completion. Verification that the Project has achieved the Sustainable Objective, or the actual achievement of the Sustainable Objective, shall not be a condition precedent to issuance of a Certificate of Substantial Completion in accordance with Section 9.8.4

#### §9.15.1.6 Claims for Consequential Damages (Excluded Under AIA 201)

3. damage resulting from failure of the Project to achieve the Sustainable Objective or one or more of the Sustainable Measures including unachieved energy savings, unintended operational expenses, lost financial or tax incentives, or unachieved gains in worker productivity.

Michael D. Ganz is a partner at Tunstead & Schechter, a law firm concentrating in construction law. Mr. Ganz is a graduate mechanical engineer and has worked as a project engineer for both private companies and government agencies before practicing law. More information about Tunstead & Schechter is available by contacting Mr. Ganz at [mdg@tslawyers.com](mailto:mdg@tslawyers.com). Tunstead & Schechter is located at 500 North Broadway, Suite 101, Jericho, New York 11753 (516) 822-4400.



## 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](http://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's HVAC Design Essentials

## HVAC Design: Level I—Essentials

ASHRAE created the HVAC Design: Level I — Essentials training to provide intensive, practical training for HVAC designers and others involved in the delivery of HVAC services. Developed by industry-leading professionals, this training provides the fundamental and technical aspects of HVAC design in commercial buildings.

In three days, 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. Engineered drawings of the ASHRAE Headquarters renovations will be incorporated to expose participants to plan reading and graphical understanding of system design.

### Training Topics:

- Fundamentals
- Heating/Cooling Load Calculation
- System Selections
- Common System and Components
- Cooling System
- Basic Design of Hydronic Systems
- Basic Design of Air Systems
- Control/BAS Commissioning
- Sustainable Design
- Project Management and Other Soft Skills
- Introduction to Technical Sales



**BONUS!** FREE copy of The Green Standard and User's Manual. A \$200 value.

### HVAC Design: Level I — Essentials

**When:** January 14–16, 2013  
January 30–February 1, 2013 \*  
March 18–20, 2013  
June 3–5, 2013  
August 12–14, 2013

**Where:** ASHRAE Headquarters, Foundation Learning Center, Atlanta, GA

\* Crowne Plaza Dallas Market Center 7050 Stemmons Fwy, Dallas, TX 75247

**Cost:** \$1,239 (ASHRAE Member: \$989)

**Company Discount:** Enroll 3 or more participants from the same company at the same time and save.

#### Who Should Attend:

- Engineers new to the HVAC industry
- Facilities managers involved in new construction or major renovation projects
- Technicians, sales representatives, and others who would like to gain a better understanding of HVAC system design knowledge



## Ashrae Society Updates

### HVAC Design: Level 2—Essentials

ASHRAE's HVAC Design: Level II — Applications training provides participants with advanced instruction on HVAC system designs for experienced HVAC designers or those who completed the HVAC Design: Level I — Essentials training.

Developed by industry-leading professionals, the training provides participants with 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, 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
- BAS controls

#### Training Topics:

- Fundamentals
- Heating/Cooling Load Calculation
- System Selections
- Common System and Components
- Cooling System
- Basic Design of Hydronic Systems
- Basic Design of Air Systems
- Control/BAS Commissioning
- Sustainable Design
- Project Management and Other Soft Skills
- Introduction to Technical Sales



**BONUS!** FREE copy of ASHRAE's latest GreenGuide. A \$100 value.

#### HVAC Design: Level II — Applications

**When:** January 17–18, 2013

March 21–22, 2013

June 6–7, 2013

August 15–16, 2013

**Where:** ASHRAE Headquarters, Foundation Learning Center, Atlanta, GA

**Cost:** \$829 (ASHRAE Member: \$679)

**Company Discount:** Enroll 3 or more participants from the same company at the same time and save.

#### Who Should Attend:

- Engineers with HVAC design experience
- Participants who attended HVAC Design: Level I — Essentials
- Architects who want an in-depth understanding of HVAC design
- Construction project managers involved with mechanical systems

#### Your Instructors

Julia Keen, Ph.D., P.E.,  
ASHRAE Member, HBDP

[link to bio](#)

Joel Primeau, P.Eng, ASHRAE  
Member, HBDP, LEED AP

[link to bio](#)

## 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](http://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





# Farmingdale State College's Office of Business Outreach

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Grail, LLC has been reviewed and approved as a provider of project management training by PMI. As a PMI registered education provider (REP), Grail has agreed to abide by PMI-established quality assurance criteria. PMP is a registered certification mark of the Project Management Institute, Inc.

**Farmingdale State College's Office of Business Outreach****OFFICE OF BUSINESS OUTREACH****Project Management Certification Program****Program Description:**

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**Requirements:**

- Minimum high school diploma or equivalent with at least 7,500 hours experience leading and directing project tasks in the last 5 years;
- Bachelor's degree with at least 4,500 hours experience leading and directing project tasks within the last 3 years

If you are in the field of : Construction, IT, Engineering, Architecture, Electrical or Plumbing Contractor, Facility Manager, Health Care Administrator, Federal or State Contractor, or Human Resource Director, you will want to distinguish yourself with this credential.

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Corporate discounts available for three or more registrants from one firm, active or retired military personnel, and higher education faculty and staff.

For more information, call or email MaryEllen DeCicco at 631-420-2316  
[deciccm@farmingdale.edu](mailto:deciccm@farmingdale.edu)

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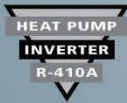


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