



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

**Special points of interest:**

- President Message
- Twin Tier News
- Monthly Meetings
- Society News
- Scholarships
- Business Card Advertisements
- Employment

## ASHRAE 2015-2016



### October Chapter Meeting

October 20, 2015

### Southern Tier Professional Development Symposium

(See Page #8 for full details)

### Tentative Brewery Tour To Follow

To register, visit the Chapter website:

<http://twintiers.ashraechapters.org>

and select the "Programs" page.

Please send all newsletter comments to:

Andrew Nice, Editor

c/o Meier Supply Co.

275 Broome Corporate Parkway

Conklin, NY 13748

[Email the Editor](#)

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



## Corner

### President's

Dear Twin Tiers Chapter Members,

I think that was the warmest September meeting we've had! I want to thank those who attended in which we had a good time catching up after summer vacations, the CRC, and at least one of you who is now a proud new parent. In fact I think I even reminded someone of their first year anniversary. That's the most interesting aspect of our Chapter, life-work-growing, sometimes comes together in the Twin Tiers.

Thank you Travis and Jason for giving us a tour of the new Admissions Center at Binghamton University. This building certainly was a diamond in the rough and exceeded BU's expectations (ie. no one asked, "what's that smell?"). With the transformation of the old Dickson Dining Hall, this building truly makes a lasting, first impression on the students seeking out their education goals at Binghamton. First impressions continued as a theme for the evening when we gathered at the Tau Bearcat Room at the Events Center.

The Southern Tier Professional Development Symposium will be held on October 20<sup>th</sup> at the Binghamton Holiday Inn this month. Please, go to our website and register for the Galaxy Brewery tour only, so we can have an accurate count. Directions and more information in the Chapter Meeting announcement.

Again, circling back to last month's message on Legionnaires' Disease, all cooling towers, evap. condensers, and fluid condensers should be registered with NY State by Sept. 16th. Tests are still coming in showing another ten towers tested positive just this week in NYC 5-boroughs, in which one person has died and thirteen others started to show symptoms in September. Here in Upstate NY there are less than 100 cases reported each year, compared to 200-300 reported in NYC. Fewer than 10 cases on average here in Binghamton. With that, I leave you with this wisdom that was passed onto me, "The Buck Stops Here", was from President Harry S. Truman, in which he derived from passing of the buck at a poker game, to which a person would stop passing the responsibility to someone else.

Sincerely,  
Doug Breese  
Twin Tiers Chapter President

## Chapter President



Doug Breese  
(585) 402-7090

[Email Me!](#)

## 2014-2015 Chapter Officers

### President-Elect

Travis R. Fisher  
(607) 255-5608

[Email Me!](#)



### Vice President

Petros Papathomopoulos  
(607) 723-9421

[Email Me!](#)



### Treasurer

Jacob Schatz  
(315) 234-1543

[Email Me!](#)



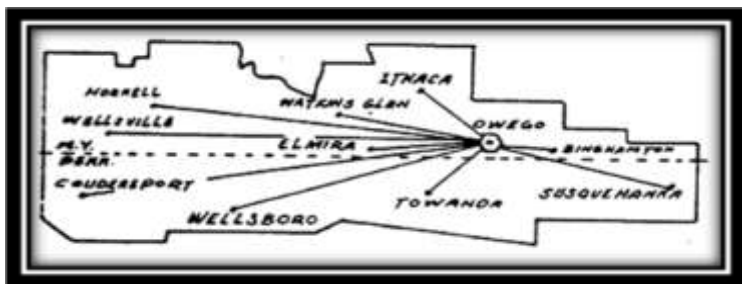
### Secretary

Michael McGinnis  
607.727.3168

[Email Me!](#)

## Newsletter Disclaimer Statement

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## Twin Tiers Chapter

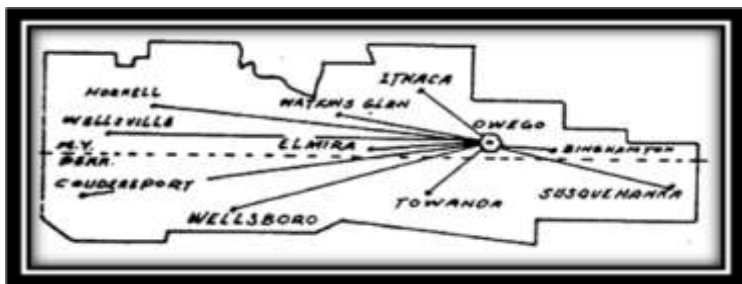
### Presidential Award of Excellence (PAOE)

	Membership Promotion	Student Activities	Research Promotion	Historical	Chapter Operations	Chapter Technology Transfer	Grassroots Government Activities
<b>MIN/PAR</b>	<b>500/800</b>	<b>300/500</b>	<b>800/1050</b>	<b>100/300</b>	<b>400/1000</b>	<b>450/1050</b>	<b>500/650</b>
<b>Current</b>	<b>225</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>135</b>	<b>0</b>	<b>75</b>

100 POINTS CURRENT AS OF 10/06/2015

### Chapter Committee Chairs

<b>Technology Transfer</b> Travis Fisher (607) 255-5608 <a href="#">Email Me!</a>	<b>Government Activities</b> Petros Papathomopoulos (607) 723-9421 <a href="#">Email Me!</a>	<b>Refrigeration</b> Rob VanSkiver (585) 591-8168 <a href="#">Email Me!</a>	<b>Golf &amp; Clambake Outing</b> Michael McGinnis (607) 727-3168 <a href="#">Email Me!</a>
<b>Membership Promotion</b> Chris Wolak (484) 350-1954 <a href="#">Email Me!</a>	<b>Nominating</b> Andrew Nice 607-760-5960 <a href="#">Email Me!</a>	<b>Meeting Reception</b> Jacob Schatz (315) 234-1543 <a href="#">Email Me!</a>	<b>H.O. Ward Scholarship</b> Jason Gilbert (607) 777-2240 <a href="#">Email Me!</a>
<b>Research Promotion</b> Andrew Nice 607-760-5960 <a href="#">Email Me!</a>	<b>Student Activities</b> Jason Gilbert (607) 777-2240 <a href="#">Email Me!</a>	<b>Membership Directory</b> Chris Wolak (484) 350-1954 <a href="#">Email Me!</a>	<b>Albarn Education Fund</b> Richard Sanguinito (607) 231-6605 <a href="#">Email Me!</a>
<b>Honors &amp; Awards</b> Andrew Nice 607-760-5960 <a href="#">Email Me!</a>	<b>Historian</b> Richard Sanguinito (607) 231-6605 <a href="#">Email Me!</a>	<b>Symposium- Fall/Spring</b> Petros Papathomopoulos (607) 723-9421 <a href="#">Email Me!</a>	<b>Auditing</b> Rick Sanguinito & Jason Gilbert (607) 231-6605 <a href="#">Email Me!</a>
<b>Webmaster</b> Mike Colwell (607) 724-8282 <a href="#">Email Me!</a>	<b>Newsletter Editor</b> Andrew Nice 607-760-5960 <a href="#">Email Me!</a>	<b>YEA: Young Engineers</b> Travis R. Fisher/Devin Shapley (607) 255-5608 <a href="#">Email Me!</a>	<b>Publicity</b> Andrew Nice 607-760-5960 <a href="#">Email Me!</a>



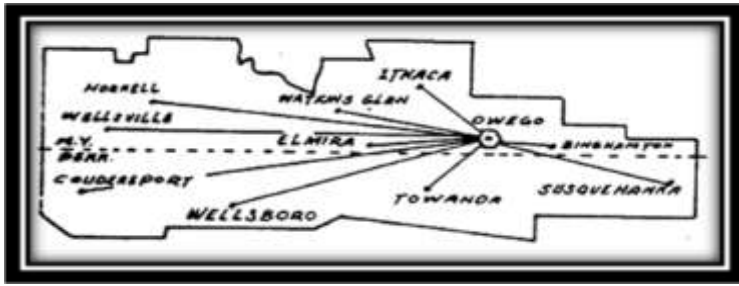
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## Twin Tiers Chapter– Monthly Meeting Information

### *2015-2016 Meeting Dates:*

<b>Date:</b>	<b>Speaker</b>	<b>Tech Session Topic, Tour or Meeting Info</b>	<b>Attendance:</b>
15-Sep	Jason Gilbert / Rick Sanguinito	Dickinson Hall VRF HVAC, Plumbing, FP, and Structural Installation Tour & Presentation	23
<b>20-Oct</b>	<b>Various / TBD</b>	<b>Fall Engineering Symposium - Daytime</b>	
<b>20-Oct</b>	<b>TBD</b>	<b>Brewery Tour—TBD</b>	
17-Nov	Art Studer	Huron Campus Chiller Plant Tour Themes: Refrigeration Night & History Night	
15-Dec	TBD	TBD Theme: RP Donor Recognition Night	
19-Jan	TBD	Ommegang Brewery Tour	
16-Feb	Lanny Joyce / Mark Howe	Cornell Tour	
15-Mar	Jason Gilbert	Binghamton University Tour	
19-Apr	Multiple/TBD	Spring Engineering Symposium—Daytime	
17-May	Lanny Joyce / Mark Howe	Cornell Tour	
<b>16-Jun</b>	<b>None</b>	<b>Golf Tournament</b>	

*NOTE: Speakers and topics are subject to change based on availability.*



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## Historian Message

### September Meeting Summary

By Rick Sanguinito, Historian 2015-2016

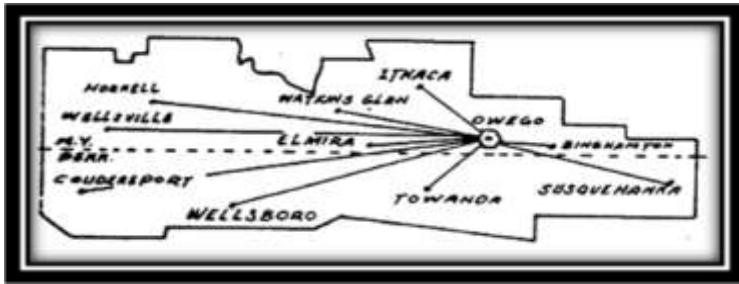
**Date:** September 15, 2015

**Tour:** Binghamton University Old Dickinson Dining Hall - New Admissions Center

**Speakers:** Jason Gilbert, PE (Binghamton University)

Thanks you to Jason Gilbert for the tour of the New Academic Center. This building was originally a dining hall that was converted into an administration building. As noted in the presentation it is not always sophisticated equipment and systems which make building mechanical design challenging. For this renovation it was more about understanding what you have to work with and using your engineering skills to make something out of nothing. Binghamton University's old Dickinson Dining Hall building is a great example of how you convert a dining facility with a dungeon basement mechanical room into a beautiful admissions center with many simple highlights to make the building appealing and functional. The HVAC challenge was to develop creative ways to deliver the building conform system within the existing structural limitations while achieving the appearance that the Building Owner required. Once again creative solutions put 10 pounds in a 5 pound bag!!





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## Historian Message



Photo 1: Penthouse Mechanical Room



Photo 2: Group on roof outside penthouse

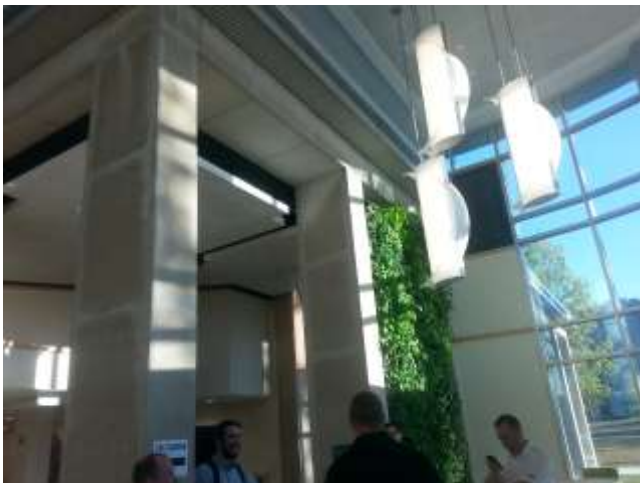
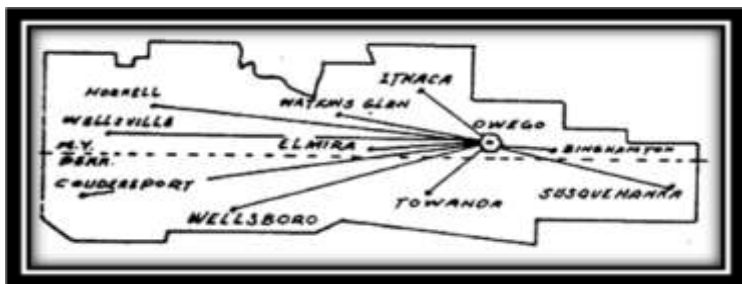


Photo 3: Explained system in the rotunda



Photo 4: Presentation after tour



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## Historian Message



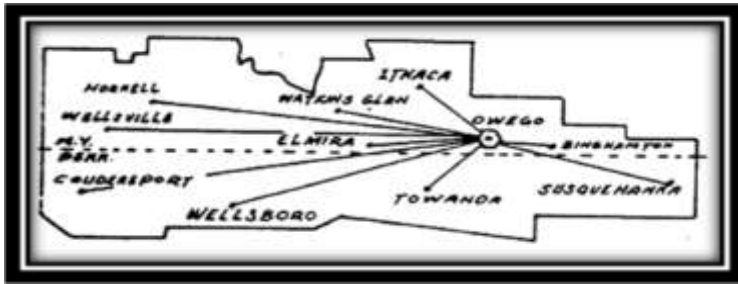
Photo 5: Jason Gilbert Presenting



Photo 6: Thank you Jason Gilbert



Photo 7: President Message – Doug Breese



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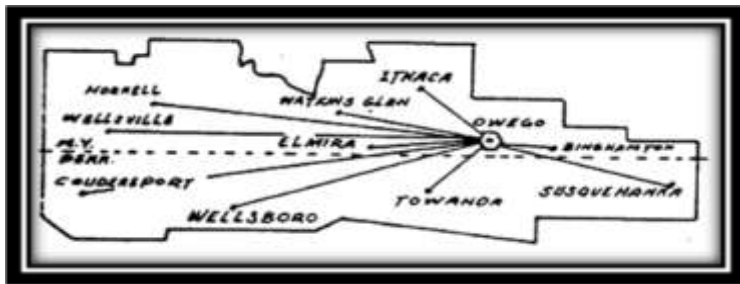
## October Meeting Announcement

<div><div>2015 Southern Tier Professional Development Symposium</div><div>Tuesday, October 20, 2015</div><div>Binghamton Holiday Inn Arena</div></div> <div></div>		
REGISTRATION 8:00 - 8:30 A.M., Outside Johnson City Room (includes coffee, muffins and fruit)		
Johnson City Room	Southern Tier Room	Latasse Room
8:30 Green Alternative for Streambank Stabilization, Joe Kozielec	8:30 Understanding AASHTO Specifications and Their Application, Castings & Gratings; John Murray	8:30 Chilled Beam and Radiant Systems Controls, Theodore Firminstein
9:30 - 9:45 Break	9:30 - 9:45 Break	9:30 - 9:45 Break
9:45 Geosynthetic Solutions for Unpaved and Paved Applications, David Lipomi	9:45 Fuel Cells, Joel Christian PE, PhD	9:45 Ball and Roller Bearings, Design and Operation, (2 pdh) ( <b>Must be present for 2 hours</b> ), Neville W. Sachs, P.E.
10:45 - 11:00 Break	10:45 - 11:00 Break	
11:00 From the Codebook to the Field, Keith Lashway	11:00 Proper Design of WQv Treatment via Manufactured Water Quality Devices; ADS Pipes	
12:00PM Lunch & Presentation Fighting for NY Infrastructure; Beth Ann Smith (12:30 - 1:30)		
1:30 High Performing Masonry Wall Systems, Keith Lashway	1:30 A New Approach to Snow Melting, Gary Hilton	1:30 AC Drives- Operation and Application Considerations, Kevin Diehl
2:45 - 3:00 Break	2:45 - 3:00 Break	2:45 - 3:00 Break
3:00 Precast Concrete Utility Structures - Design and Installation, Ronald Thornton	3:00 Chilled Water Savings: Maximizing Pumping and Chiller Efficiency, Bob Rybka	3:00 Power Quality Considerations when Applying Adjustable Freq Drives, Kevin Diehl
All 1 hour sessions are 1 pdh including Lunch for a total of 6 pdh.		

EARLY PRE-PAID REGISTRATION DEADLINE: Saturday, October 11, 2015; Symposium Registration includes Morning Refreshments, Buffet Lunch and Afternoon Refreshments; Register and Pay on-line (<http://www.broomepe.org>) OR Send Pre-Paid Registration by Mail to the following address: Wonjune Hong, 416 Jodie Dr, Vestal, NY 13850. Questions: 607-751-2452 Make checks payable to "Broome Chapter NYSSPE". Refunds available if requested prior to 10/11/15.

<b>MEMBER</b> OF ASHRAE/ ASCE/ NYSSPE/ ACEC:	Early (Postmarked by 10/11/15) = \$80	Late (Postmarked after 10/11/15) = \$100
<b>NON-MEMBER</b> OF ASHRAE/ ASCE/ NYSSPE/ ACEC:	Early (Postmarked by 10/11/15) = \$100	Late (Postmarked after 10/11/15) = \$120
Name		
Company/ Society Affili'n.		
Address		
City/State/Zip		
Preferred E-mail		
NYS P.E. License #		





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## Twin Tiers Chapter– September BOG Meeting Minutes



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.  
**TWIN TIERS CHAPTER** (<http://www.twintiers.ashraechapters.org/>)

Board of Governors Meeting

Date: Tuesday 09/15/2015 @ 4:00 PM

Location: New Admissions Center Rm AM189 Binghamton Univ.

### MEETING MINUTES

The meeting was called to order at:

1. Call to Order and Attendance: Meeting called to order at 4:05pm by Doug B.
  - a) Attendance: Doug Breese, Jason Gilbert, Chris Wolak, Rob VanSkiver, Andy Nice, Devin Shapley, Mike McGinnis, Glenn Roberts, Jake Schatz
2. Approval of August Meeting minutes: Motion - Andy, 2<sup>nd</sup> - Mike
3. General Announcements – Doug Breese
  - a) Quote for the meeting

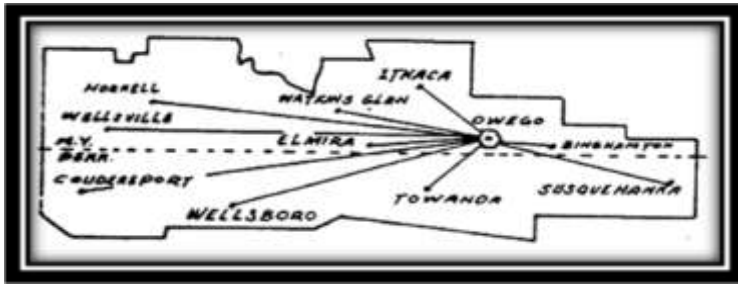
"I've learned that people will forget what you said, people will forget what you did, but people will never forget how you made them feel." — [Maya Angelou](#)

4. Treasurer's Report – Jake
  - All accounts are in good standing.
  - Audit: Sent? The audit is under review by the Audit Committee. Still to be sent to the Accountant.
  - Annual budgets. Budget Reviewed. Any receipts provided to Jake should be noted with the budget line item that they need to be attributed to.

5. PAOE Responsibility – Doug

Chairs	Chair Contact	Current	PAR	Max
Membership Promotion	Chris Wolak	0	500	800
Student Activities	Jason Gilbert	50	300	500
Research Promotion	Andy Nice	0	800	1050
History	Rick Sanguinito	0	100	300
Chapter Operations	Doug Breese	50	400	1000
Grassroots Government Activities	Petros Papathomopoulos	0	500	650
Chapter Technology Transfer	Travis Fisher	0	450	1050

Travis – keep a running chapter speaker database and update the CTTC-RVC regularly during the year.



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

## Twin Tiers Chapter– September BOG Meeting Minutes

### 6. Chair Updates:

- a) Student Activities: Provide old ASHRAE books to student members
- b) Research Promotion:
  - ☐ 2015-2016 Goal is \$6,500
  - ☐ RP Possible fundraising events: Clay Shoot, Wine Survivor Night, Vendor Directory (help from BOCES?), Vendor display at the symposium
  - ☐ Use newsletter advertising money towards RP: Motion – Travis, 2<sup>nd</sup> - Rob

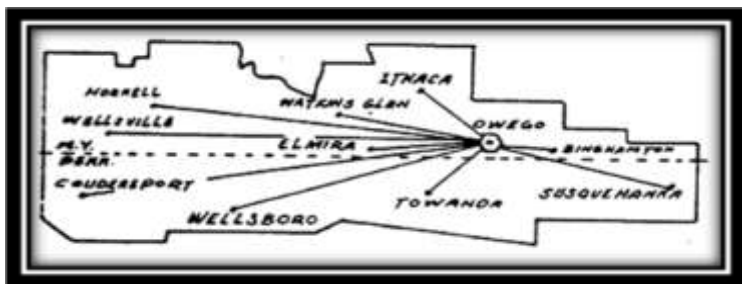
### 7. Old Business

- a) PayPal: Jacob
  - 1. Switching to Non-Profit Account. [Per the Paypal page, this is complete](#)
- b) Student Scholarships: General Discussion
  - 1. How do we make this known to students?
    - a. Twin Tiers Website with links and details. [Also the Newsletter and Student Chapters.](#)
- c) Student Activities:
  - 1. Notify Alfred ([Jason to contact Dr. Joe C](#)) and Cornell ([Travis to take lead](#)) contacts of end of Student Branch and if they'd like to renew they need to fill out forms from ASHRAE.
  - 2. Jason to establish BU Student Branch.
    - a. (3) Students are required to maintain a student branch and (10) are required to start a branch.
- d) Management By Objective (MBO)
  - 1. Retain and increase membership by 2%, current membership is at 112.
  - 2. Reduce delinquency to 5% or less. Currently 19% are past 6 weeks overdue on renewing their annual chapter memberships.
    - a. Draft letter to current delinquents - Doug
      - i. Touch base - changes in job location, family events, lost interest?

### 8. New Business

- a) ASHRAE TT to receive a \$50 per person credit for each person that attended the CRC from the region.

Meeting adjourned at 5:00 pm



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FREE ASHRAE SHIRT

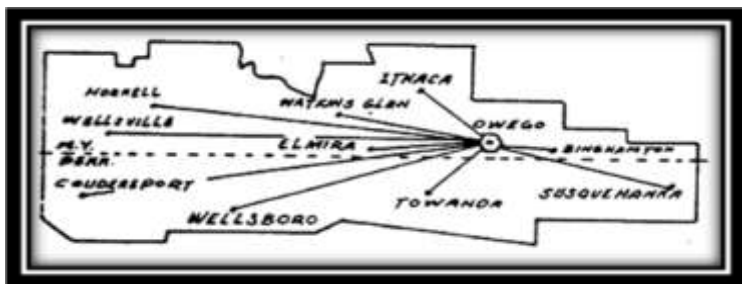
CONGRATULATIONS MEMBERS!

Rick Allabaugh
Richard Sanguinito
Travis Lebrun
Devin Shapley
Petros Papathomopoulos
Andy Nice
Doug Breese
Robert Van Skiver
Matt Hawley
Jacob Schatz
Joe O'Hara
Garry Hilton
Michael McGinnis
Art Monaco
Chis Wolak
Jason Gilbert



As a token of our appreciation for your dedication to this chapter we are giving away free shirts to the members listed above. To qualify for the free shirt you had to attend at least 4 of the chapter meetings this year. You will be receiving your shirts at the next chapter meeting.





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## What Were They Thinking???

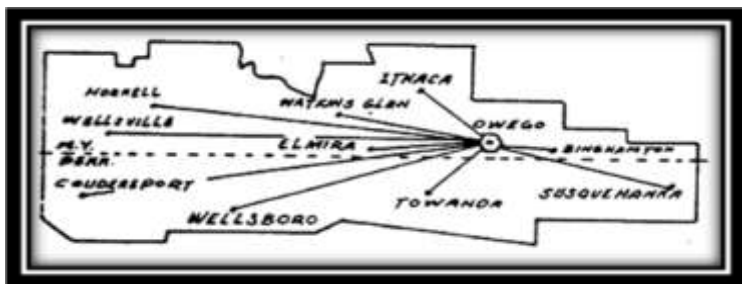


How many OSHA violations can you spot?

Do you have a funny, "unique", or just plain horrible installation picture?  
Please send them to the Editor at [anice@meiersupply.com](mailto:anice@meiersupply.com)

\*\*\* All names/brands are removed to protect the guilty. \*\*\*





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

## TRAINING



# New York State Professional Engineers

## Self Study Ethics PDH Available!

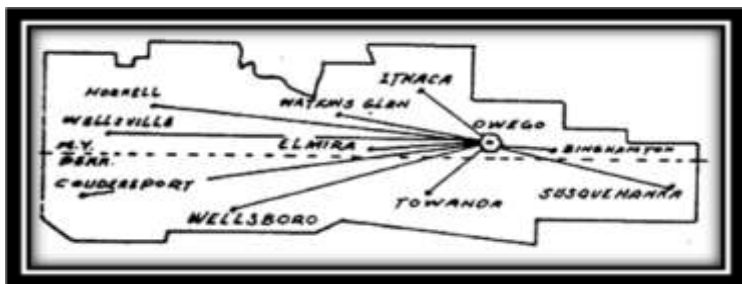
As a licensed professional in New York State, it is your professional responsibility to know the legal and ethical requirements governing the practice of your profession and to be alert to changes in those requirements. The New York State Board for Engineering and Land Surveying, in an effort to help you stay abreast of your professional responsibilities, has developed this short, self-study educational activity in ethics.

This educational activity is based on the New York State Education Law Articles 130 and 145, the Rules of the Board of Regents Parts 1, 3, 17, 18, 28, 29, 31, and the Regulations of the Commissioner of Education Parts 59 and 68. It is strongly recommended that, prior to taking the self test, you review these [foundational materials](http://www.op.nysed.gov/prof/pels/pelaw.htm) (<http://www.op.nysed.gov/prof/pels/pelaw.htm>) on the engineering web site.

Once you have reviewed the foundational materials, proceed to complete the self test below. When you have completed the self test, click the "Get your score" button at the bottom of the page. You should print this screen and save it as evidence of satisfactory completion of this educational activity. A score of 90% or greater will allow you to claim 1 Professional Development Hour (PDH) of educational activity credit in ethics ONCE in each three-year registration period. Retain your printed screen for no less than 6 years from the date of completion.

**Take Your PE Ethics Self Test Here!**

<http://www.op.nysed.gov/prof/pels/peceselftest.htm>



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## TRAINING



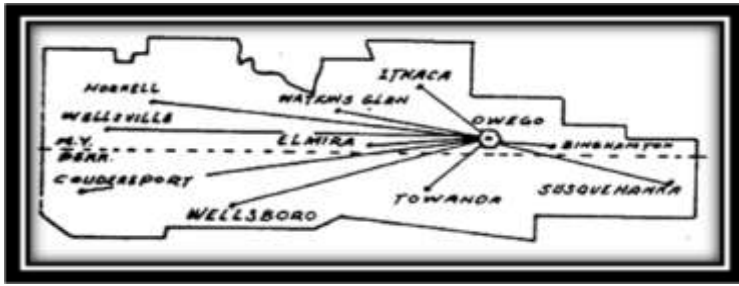
New York State Professional Engineers  
**Need a few extra PDH?**  
**FREE Online Courses are Available!**

[www.aecdaily.com](http://www.aecdaily.com)

[www.ronblank.com](http://www.ronblank.com)

The above websites offer free online courses that are approved for credit!





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

## TRAINING

### 2015 Fall Online Courses

#### REGISTRATION

**By September 4th:**

\$239 (\$179 ASHRAE Member)

Two-part courses: \$439 (\$319 ASHRAE Member)

**After September 4th:**

\$259 (\$199 ASHRAE Member)

Two-part courses: \$459 (\$339 ASHRAE Member)

**Register**

#### DISCOUNTS

Take three or more courses and save 15% on your complete course registration costs.

Receive a 10% discount on the Recommended Reference. (Discount is included in item prices on registration form)

#### MULTIPLE PARTICIPANTS

Site Licenses are Available when five or more attend. [Learn More >>](#)

### ASHRAE Announces Fall Online Courses

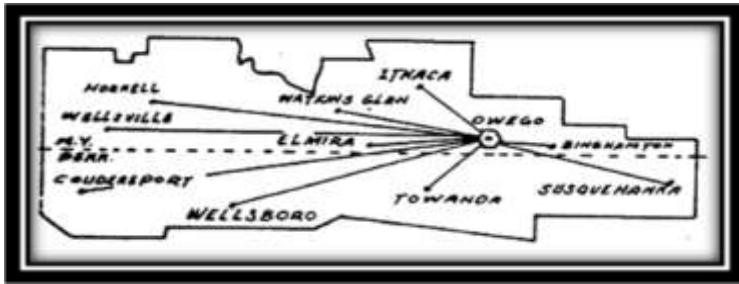
ATLANTA – Ten online professional development seminars focused on commissioning, environmental quality, energy efficiency, HVAC applications, and standards and guidelines are being offered this fall by the ASHRAE Learning Institute (ALI).

Participants can access these instructor-led courses from anywhere with an Internet connection, and earn continuing education units/professional development hours for each course completed.

ALI courses provide professional development through in-depth information that is timely, practical and advanced beyond a fundamental level. Online courses are offered every spring and fall.

For pricing or to register, visit [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses).





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

## EVENTS

# 2016 Winter Conference & AHR Expo



2016 Winter Conference  
Jan. 23-27  
Orlando Hilton  
Orlando, FL

AHR Expo  
Jan. 25-27  
Orange County Convention Center  
Orlando, Fla.

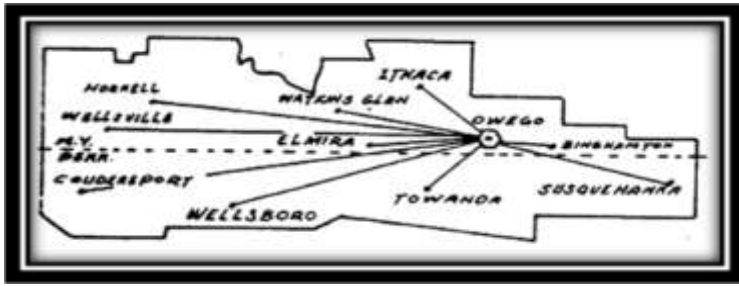
Sun and fun make Florida a global destination! The 2016 ASHRAE Winter Conference and AHR Expo serve as similar attractions, drawing industry professionals from around the world to advance personally and professionally. The Conference will have a fresh feel with new tracks focused on design-build practices and residential systems as well as programs that align well with current trends in HVAC&R engineering. Energy efficiency and sustainability are emphasized along with current engineering and construction practices outside of the U.S. and Canada. Come experience Florida's attractions and ASHRAE's advances in technology.

Highlights!

- ASHRAE Headquarter Hotel is connected to the Orange County Convention Center, site of the AHR Expo. An easy walk to the latest and greatest technology!
- Kick off the Conference with a Welcome Party at SeaWorld!
- Technical Program features fresh feel with new tracks!

[Register](#)





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## INDUSTRY ARTICLE

# DOE Releases Common Definition of Zero Energy Buildings, Campuses and Communities; ASHRAE Commends Efforts

ASHRAE



WASHINGTON, DC – Today the U.S. Department of Energy (DOE) reached a significant milestone in bringing the building community together by releasing a common definition of a zero energy building, or what is also referred to as a “net zero energy” or “zero net energy” building.

After leading an extensive stakeholder engagement process over the past year and a half, the Energy Department released its findings in the recently published [A Common Definition of Zero Energy Buildings](#), which states that a Zero Energy Building is “an energy-efficient building where, on a source energy basis, the actual annual delivered energy is less than or equal to the on-site renewable exported energy.” This definition also applies to campuses, portfolios, and communities. In addition to providing clarity across the industry, this new

DOE publication provides important guidelines for measurement and implementation, specifically explaining how to utilize this definition for building projects.

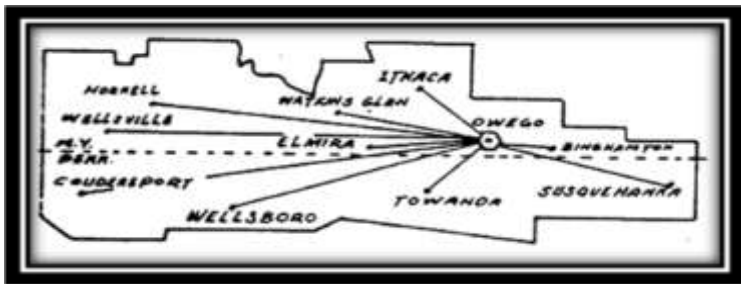
“Reducing energy use in buildings must be a major part of the solution as we work to combat the escalating costs and impacts of climate change,” said Brendan Owens, chief engineer at the U.S. Green Building Council, which represents more than 13,000 member businesses and organizations from across the building community. “While we are making significant progress to save energy in buildings, this Zero Energy Building definition developed by DOE helps increase expectations and orient the buildings industry towards even greater achievements. USGBC applauds DOE’s effort to define zero energy buildings and we look forward to continuing to champion the cause of building efficiency and renewable energy applications to meet the ambitious goals of this definition.”



In collaboration with the National Institute of Building Sciences (NIBS), DOE initiated a process last year to work with a large, diverse set of building industry stakeholders to develop its common definition of what it means to be a zero energy building. Thousands of project teams throughout the country are looking to push the envelope and achieve a zero energy building. In fact, the number of zero energy buildings doubled from 2012 to 2014 across 36 states, according to the New Buildings Institute. The growth of zero energy buildings has highlighted a lack of clarity and consistency across the industry on key definitional issues that increasingly were the source of market confusion, underscoring the need for DOE to help develop a commonly accepted definition and approach.

“NIBS and USDOE have created a set of clear and concise definitions for zero energy buildings that will help to narrow the broad array of terminology currently used in the industry,” said Ralph DiNola, CEO of New Buildings Institute. “These consistent definitions will contribute to the growth of zero energy building construction across this country. NBI supports the definitions as a federal position and will promote this effort through the work we do leading programs, practices and policies to get to zero across North America.”

Generally speaking, a zero energy building produces enough renewable energy to meet its own annual energy consumption requirements, thereby reducing the use of non-renewable energy in the building sector. There are a number of long-term advantages of buildings meeting this goal, including lower environmental impacts, lower operating and maintenance costs, better resilience to power outages and natural disasters, and improved energy security.



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

## INDUSTRY ARTICLE

# DOE Releases Common Definition of Zero Energy Buildings, Campuses and Communities; ASHRAE Commends Efforts (Cont.)

ASHRAE

"We applaud the Department of Energy's continuing work to promote buildings that use less energy. For more than 150 years, AIA-member architects have worked to advance our quality of life through design," said Elizabeth Chu Richter, FAIA, president of the American Institute of Architects (AIA). "From designing the next generation of energy-saving buildings to making our communities healthier and more vibrant, the 86,000 members of the AIA shape our future through their work. The quality of this future is wholly dependent on sustainable, resilient buildings that reduce the nation's reliance on non-renewable energy sources. That is why the Department of Energy's work is vitally important to the industry and nation as a whole."

Reducing building energy consumption in new building construction or renovation can be accomplished through various means, including integrated design, energy efficiency retrofits, reduced plug loads and energy conservation programs. Reduced energy consumption makes it simpler and less expensive to meet the building's energy needs with renewable sources of energy. By clarifying what it means to be a zero energy building, this definition will help more building owners determine if developing a zero energy building is right for them. By creating this common definition for zero energy buildings, building owners and project teams can now better focus their effort on implementing strategies to improve the performance of their buildings.

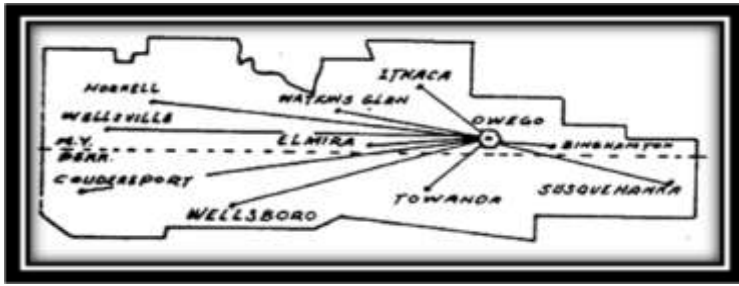
"The National Association of State Energy Officials (NASEO) commends the Department for taking this critically important step to help define Zero Net Energy," said David Terry, executive director of National Association of State Energy Officials (NASEO). "For too long, uncertainty in the market place around this issue has been a barrier to many private and state efforts in the move toward Zero Net Energy buildings. This action supports existing state energy office efforts which have resulted in Zero Net Energy schools in Kentucky, state office buildings in Iowa, and new homes in many states. Providing standard definitions will help states and private sector partners expand the pace of Zero Net Energy construction."

"IBPSA-USA welcomes the development of this industry-standard definition for zero energy buildings," said Mike Wilson, Executive Director of IBPSA, the US Affiliate of the International Building Performance and Simulation Association. "We intend to promote the use of this definition by IBPSA-USA members, who play a vital role in the development of successful zero energy buildings through the application of building performance simulation."

"For one hundred and twenty one years ASHRAE has been a national and global leader in standards development that fulfills our mission of serving humanity and promoting a sustainable world. We commend the Department of Energy on its efforts to seek consensus on the issue of energy efficiency in the built environment," says David Underwood, president of ASHRAE. "The 53,000 world-wide members of ASHRAE have diverse interests in how to approach Zero Energy Buildings but all share a desire to move this goal forward. This definition of Zero Energy Buildings will certainly become one of the tools used by the world-wide marketplace to move towards a sustainable future."

The Zero Energy Building Definition can be viewed here: <http://energy.gov/eere/buildings/downloads/common-definition-zero-energy-buildings>.

Contact: Jodi Scott / Public Relations / 678-539-1140 / [Email](#)



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## INDUSTRY ARTICLE

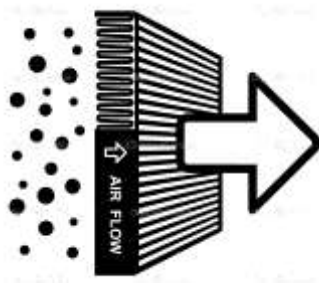
# Compliance Path based on Use of Filtered Recirculated Air Proposed for ASHRAE Residential IAQ Standard

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ATLANTA – A new optional credit for improving filtration combined with ensuring sufficient air flow through filters is being proposed for ASHRAE's residential indoor air quality standard.

ANSI/ASHRAE Standard 62.2-2013, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*, is the only nationally recognized indoor air quality standard developed solely for residences. It defines the roles of and minimum requirements for mechanical and natural ventilation systems and the building envelope intended to provide acceptable indoor air quality in residential buildings.

Eight proposed addenda to Standard 62.2-2013 are currently open for public comment. To comment or learn more, visit [www.ashrae.org/publicreviews](http://www.ashrae.org/publicreviews).

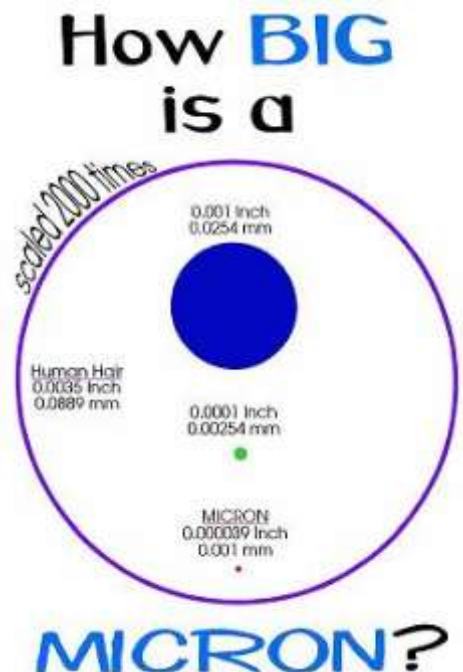


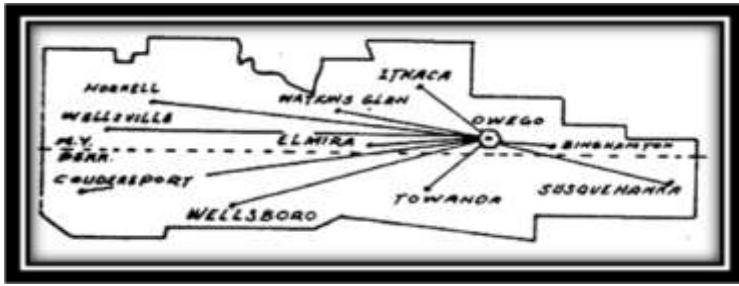
Among them is addendum k, which is open for public comment until Oct. 4, 2015. The addendum would create a compliance path based on the use of recirculated air that has been filtered to reduce exposure in the building interior to particulate matter not exceeding 2.5 microns.

"These particles (PM<sub>2.5</sub>) have been found to be one of the most important indoor contaminants from a health perspective," Paul Francisco, 62.2 committee chair, said. "This change would provide an optional credit for having improved filtration combined with ensuring that sufficient air flowed through the filter. This would be the first time the standard has fo-

cused on a specific contaminant."

In addition, addendum v is open for public review until Oct. 19. The addendum sets out requirements for non-continuous ventilation. Whereas the standard has included an option for intermittent ventilation, this proposed change provides calculation procedures for a broader range of potential operation schedules. It also contains a limit on how much contaminants can increase over a short term due to non-continuous operation to ensure this type of operation does not result in periodic excessive contaminant levels, according to Francisco.





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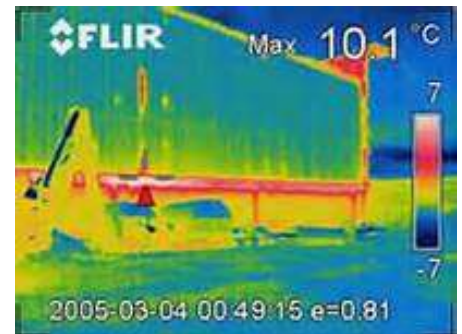
## INDUSTRY ARTICLE

# Compliance Path based on Use of Filtered Recirculated Air Proposed for ASHRAE Residential IAQ Standard

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Other addenda are scheduled for review until October 4, 2015 are:

- Addendum o. The committee approved a proposal to change references to “whole-building” or “whole-house” ventilation to “dwelling unit” ventilation in the main body of the standard. This proposed change ensures consistency in Normative Appendix A (Existing Buildings).
- Addendum p would clarify the requirement in Section 7.2.2 (Demand-Controlled Local Exhaust Fans) that fans have at least one speed setting meeting the minimum required exhaust airflow rate where the corresponding sone rating is 3 or less. Currently, the language in this section would permit any fan with a high speed setting exceeding 400 cfm to be exempt from the sone requirement, even if operating on a lower speed setting. Closing this loop hole will ensure that occupants that have typical sized range hoods will have at least one speed setting rated  $\leq 3$  sone.
- Addendum q adds an alternative combustion safety testing method based on performance in lieu of the prescriptive requirements that were the sole basis previously.
- Addendum r would provide guidance on this topic while aligning the language with the latest draft of BSR/RESNET/ICC 380, “Standard for Testing Airtightness of Building Enclosures, Airtightness of Heating and Cooling Air Distribution Systems, and Airflow of Mechanical Ventilation Systems.”
- Addendum s provides a mechanism for accounting for the differences between balanced and unbalanced ventilation. Standard 62.2 has not previously distinguished between balanced and unbalanced ventilation, despite it being well-known that these interact with natural infiltration in different ways to produce different overall air exchange rates.

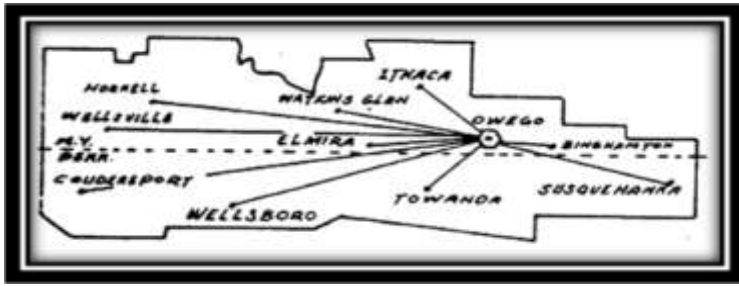


Addendum u adds an alternative method to reduce transfer air in existing buildings. The compartmentalization requirement in the existing standard is extremely difficult and cost-prohibitive to meet for many existing buildings. While this is a desirable target, an alternative for existing buildings to meet the standard with reasonable effort is needed.

To comment or learn more, visit [www.ashrae.org/publicreviews](http://www.ashrae.org/publicreviews).

Contact: Jodi Scott / Public Relations / 678-539-1140 / [Email](mailto:jodi@ashrae.org)





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## Twin Tiers Chapter– Employment Opportunities

If your company has any Employment Opportunities that you would like to advertise in the Newsletter please send to ASHRAE



### **Outside Sales Engineer**

Outside Sales Engineer Wanted – H&V Equipment Sales, Inc.

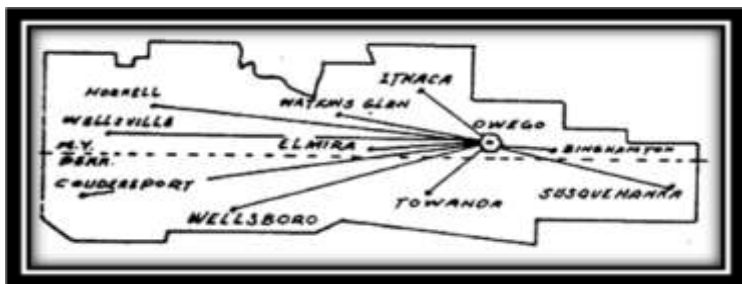
H&V Equipment Sales, Inc. a manufactures representative for applied HVAC equipment is seeking a motivated salesperson to help expand its market presence in Western and Central NY.

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H&V Equipment Sales, Inc. is a division of H&V Group.



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The Twin Tiers Chapter of ASHRAE can accept business card advertising with the following provisions:

- The company must be associated with HVAC&R technology.
- The company must be a local service provider, a local manufacturer, or a manufacturer's representative serving the area.

If you aren't sure, just ask.

We are now accepting business card advertisements for the newsletters that will be published in 2016. This is a great opportunity to get your name and business in front of the over 200 subscribers to our chapter newsletter. The price for the newsletter only is \$50 for the entire 2016 year.

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### Comments? Suggestions?

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**We welcome your feedback!**



### *ASHRAE Mission Statement*

ASHRAE will advance the arts and sciences of heating, ventilation, air conditioning, refrigerating and related human factors to serve the evolving needs of the public and ASHRAE members.

## **Ethics Requirement for PE**

PE's in NYS will be required to have one hour of Ethics within their 36 hours of continuing education for registration periods beginning August 1, 2011 and after.

### *ASHRAE Vision Statement*

ASHRAE will be the global leader in the arts and sciences of heating, ventilation, and air conditioning.

ASHRAE will be foremost authoritative, timely, and responsive source of technical and education information, standards and guidelines.

ASHRAE will be the primary provider of opportunity for professional growth, recognizing and adapting to changing demographics, and embracing diversity.

***Advancing HVAC&R to  
serve humanity and pro-  
mote a sustainable world"***