



Northeast Chapter

# Thermal Briefs

DECEMBER 2015

## DECEMBER MEETING Tuesday, December 15, 2015

### Building a Net Zero Lab in the United Arab Emirates: Mission Impossible?

*By Gordon P. Sharp*

#### ***1 PDH credit APPROVED***

6:00pm – Dinner and Presentation

Italian American Community Center, Washington Ave Ext

Members - \$30 (\$40 with PDH)

Non-Members - \$35 (\$45 with PDH)

Students - \$15

\*\*\*\*PAST PRESIDENTS NIGHT! \*\*\*\*

Past Presidents - Free admission

#### **Happy Hour Beings at 5:30pm**

RSVP to Tim Houle no later than Monday, December 14th

[Thoule@advancedcomfortsys.com](mailto:Thoule@advancedcomfortsys.com) or 518-884-8444 x3439

#### **Seminar Description:**

Laboratories with their intense use of outside air and safety concerns are one of the most challenging building types to achieve net zero. In fact, some might say it can't be done at least for many climates. However, a path does exist to achieve net zero energy or at least near net zero using multiple technologies such as VAV lab and exhaust fan control, demand based control of ACH's, chilled beams or hydronic cooling, and heat recovery. This seminar will explore this topic from a holistic viewpoint and provide a detailed review of an actual case study of a large near net zero lab project in Abu Dhabi, UAE..

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## Message from the President

It's unbelievable how quickly this year seemed to fly by. Thank you all for a great 2015.

Please be sure to bring donations for the City Mission Schenectady to the upcoming December Chapter meeting, on Tuesday, December 15th. Of most use are men's winter coats and boots (USED) any sizes, men's underwear (sizes L/XL/2X/3X, **NEW**), and men's white tee shirts (sizes L/XL/2X/3X, **NEW**). The City Mission has 75 men staying with them each night and clean clothes are a dire need. If it's more convenient, checks can be made out to **City Mission Schenectady**. The HVAC industry treats us fairly well, let's share a little bit of our prosperity with those in the community who aren't as fortunate.

I would like to recognize Bill Gerstler (Northeast Chapter Past President, 2008-2009 and ASHRAE Fellow) and Chet Vogel (also an ASHRAE Fellow), for their great work with the MANE 4760 HVAC course at RPI. Six (6) of our chapter members were present to observe the students' final presentations on Wednesday, December 9<sup>th</sup> and the practical knowledge that the students have acquired from Bill and Chet is wonderful to see. It's reassuring to know that our local industry will have new talent entering the workforce year after year. For those of you that joined us at Brown's and then RPI, thank you so much. Hopefully more of you will be able to join us next year to help encourage the students toward becoming contributors to ASHRAE and the HVAC industry at large.

Lastly, I would like to wish you, your family, friends, colleagues and acquaintances a safe and happy holiday season!

Sincerely,

Dan Williams

2015-2016 Northeast Chapter President

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## Message from the Newsletter Editor

*Greetings! A few items to bring to your attention:*

- \* *Paypal is a feature on our website! <http://northeast.ashraechapters.org/> Use this to pay ahead for meetings or any special event we may have listed.*
- \* *Want to see some content in the newsletter that currently isn't shown? Let me know! Forward suggestions to me at [adam.feather@trane.com](mailto:adam.feather@trane.com). Thanks!*

# Message from Membership Promotion

I recently attended an ASHRAE training session in Denver and learned more about members advancing from Associates to full Members that I thought I'd share for this month's Newsletter.

First of all, here's what I already knew, and many of you may too:

- There are only three Types of Memberships: Students, Associates and Members
- There are two Membership Status levels: Active and Grace (= Member's dues are over 3 months late)
- There are seven "Print" Grades: Students, Affiliates, Associates, Members, Retired, Life and Fellows. These different grades apply primarily to how much a member pays for membership and what level of benefits they receive. For example, Life Members no longer pay annual dues; Affiliates don't receive the Handbooks. The vast majority of us are Associates & (Full) Members.
- To hold any officer position or any positions on the Regional or Society levels, one must be a Member.
- If you are an Associate with education, professional licensure or work experience of 12 years or more, you are eligible to upgrade to a full member. Looking at our roster, there are **93 members** who might be able to upgrade to Members.

Now here's what either I didn't know, or was a little on the fuzzy side about, **Despite** being the Membership Chair for a Year!

- Read that last bullet one more time. Yeah, you probably missed it too. Key phrase: "**With education. . . . of 12 years or more.**" I thought that meant 12 years as an engineer! Not so. Education beyond high school counts as part of the 12 years.
- Additionally, graduates of accredited colleges get 1-1/2 years counted for every year of education.
- For Non-college graduates or Graduates of a non-accredited college, they count 1 year of education as 1 year.
- If you have your P.E. License, they credit you with 3 additional years.

So look at your professional value one more time. Are you eligible to Advance? A BS grad from an accredited college with their P.E. and four years of post-college experience is eligible! Additionally, I thought, well if I'm comfy in my current job and have no intention of serving on a Tech Committee, Standing Committee or as an Officer or on any Regional or Societal Level of ASHRAE, what do I care what type of Membership I have? Well, if adding another asset to your professional resume isn't a priority now, realize this: To serve on any of those upper-level positions requires **3-5 years as a full member** before you are eligible. So even if you don't desire it today, that could change down the line, especially if you lose your job or your employer wants some influence on Standards or increased marketing exposure.

For more information on what experience qualifies for advancement, please see Section 2.7 of the [ASHRAE Bylaws](#).

**So how do you Advance to Member?** Update your ASHRAE bio online, and notify [membership@ashrae.org](mailto:membership@ashrae.org) that you have an updated bio and wish to be considered for grade advancement. Copy your local Membership Chair (Liesl Hammer this year) on that email also, so the NE Chapter is notified and can make sure it doesn't get lost in the shuffle. Questions? Contact Membership Promotion at [Liesl.Hammer@gmail.com](mailto:Liesl.Hammer@gmail.com)

# Northeast Chapter Officers and Board of Governors 2015-16

Chapter President:	Dan Williams
President Elect/CTTC/Program Chair:	David Houle
Vice President/ Newsletter Editor:	Adam Feather
Treasurer:	Kendra Potasiewicz
Secretary:	Trevor Gensch
Board of Governors	Russ Danforth
Board of Governors:	Gregory Kirkpatrick
Board of Governors:	Todd Turcotte
Board of Governors:	John Thomas
Board of Governors:	Tim Houle
Board of Governors:	Douglas Belokopitsky
Honors & Awards Chair:	Kristin Gustafson
Membership Chair:	Liesl Hammer
Student Activities Chair:	Dave Ricci
Research Promotion Chair:	Chris Schmidt
Refrigeration Chair	Ray Hickey
Historian:	Stanley Westhoff

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***Please consider volunteering for a regional or society level position or let us know if you think of anybody who would be good for any of the positions listed at the following link:***

**<https://www.ashrae.org/society-groups/committees/>**

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**If you have a professional relationship with any local government officials, please let us know!**

The ASHRAE Northeast Chapter would like to reach out to them to promote sustainability topics. Government officials might include school board, state or provincial legislative committee, state or provincial agency, city council, county board, etc.

# Refrigeration Article

REMEMBER TO BRING YOUR DONATION TO THE DECEMBER MEETING for the City Mission of Schenectady.

They are looking for **men's underwear in sizes (L), (XL), (2XL), and (3XL), winter socks and previously enjoyed winter coats**. I know my comments to my wife, if she gave me her choice of underwear to me for Christmas! But this is different! The director of the City Mission specifically mentioned these "gifts" to the 70+ men that are currently staying at the City Mission shelter, trying to get their lives back together.

Don't be a last minute shopper!

Thank you,  
Ray Hickey Refrigeration Chair

# Message from the Chapter Historian

The year was 1976 - 77 and the Northeastern New York Chapter President was Clifford H. Vickery.

The Annual Steak Roast was held September 20, 1976 at the Bavarian Chalet on Route 20 in Guilderland with Golf at the Colonie Town Golf Course. Chair for the event was Bob Peck, Jr. Dinner meetings were held at Sleasman's Hofbrau in Latham. On April 30, 1977 the Annual Banquet & Casino Night was held at Michael's Restaurant in Latham. The night included Casino games, cocktail hour, full course Prime Rib dinner and dancing to music of the Galaxy Quartet.

Loran Appleby, a member of the chapter was serving as Chairman of the Long Range Planning Committee of the Society. This was the first chapter member to be appointed to a very important committee at Society.

A Chapter dues of \$10 per year was initiated.

Larry Pedersen was the Finance Chairman.

And that is the way it was in 1976 - 77.

Northeast Chapter Historian

*Stan Westhoff*

## Current PAOE Chapter Summary

Membership Promotion	Student Activities	Research Promotion	Historical	Chapter Operations	Chapter Technology Transfer	Chapter Grassroots Government Activities	Chapter PAOE Point Totals
425	-	-	-	275	-	-	-

PAOE stands for the Presidential Award of Excellence and is a point system used within ASHRAE to **evaluate the success of each chapter**. Officers and grassroots chairs have the opportunity to earn PAOE points based on achievements and accomplishments designated by the ASHRAE Society President. Example activities for earning PAOE points include starting a new student chapter, holding at least eight regular chapter meetings in a year, and educating non-members about ASHRAE technologies and goals.



**ASHRAE NORTHEAST CHAPTER  
SCHOLARSHIP APPLICATION**

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

The ASHRAE Northeast Chapter Scholarship Program is designed to encourage and assist in the education of men and women pursuing a career in the field of heating, ventilating, air conditioning and refrigeration (HVAC&R) through its granting of scholarships. The program also serves the public interest by aiding in the education of men and women to become qualified to practice within the HVAC&R field.

**Personal Data**

Last Name		First Name		Middle Initial	
Student's Home Address					
City		State		Zip	
E-mail address		Home Phone			
Date of Birth		Citizen-ship			

**Education**

High School		H.S. Location	
H.S. Course of Study		Year Graduated H.S.	
College or University		Location	
Major		Cumulative Grade Point Average	
Anticipated College or University Graduation Date			
Other School		Location	
Course of Study		Year Graduated	
Anticipated Graduation Date			

**Education** *(continued)*

List of Engineering/ Technical Courses taken to date (applicant may refer to transcript):
Extra Curricular Activities and Hobbies:

**Professional Data** *(provide a brief resume of your work experience)*

Employer		From/To Dates	
Brief Job Description			
Employer		From/To Dates	
Brief Job Description			
Employer		From/To Dates	
Brief Job Description			

**Professional Goals**

What is your particular interest in a field(s) covered by ASHRAE, and describe one or more ways that the HVAC&R industry affects the lives of people in today's society. (300 words maximum, attach extra pages as required)

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## References

Please provide a total of two references along with a separate letter of recommendation from either: Professor, Faculty, Business Person or Former Employer.	
Name & Relation	
Name & Relation	
Please list any associations with ASHRAE Northeast chapter members.	
Name & Relation	

Basic Criteria which all Scholarships are granted:

1. Full time enrollment in a college, university, or technical institute. Undergraduate students should be entering their sophomore, junior or senior year with at least one full year of studies remaining in the year for which the scholarship is granted. Graduate students can apply at any point during their studies as long as they have at least one full year of studies remaining in the year for which the scholarship is granted.
2. Study that is applicable to service in the HVAC&R profession.
3. A cumulative grade point average (GPA) of at least 3.0 on a scale where 4.0 is the highest (attach official transcript).
4. Association with the region covered by ASHRAE Northeast Chapter (Capital Region) by attendance to a school in the area or permanent address in the area.

I believe all of the above information to be true and complete and I hereby apply to the American Society of Heating Refrigeration and Air-Conditioning Engineers –Northeast Chapter for an ASHRAE Scholarship. I certify that I am not receiving full funding for my education from an employer, any branch of the Armed Services or any other organization.

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Date

**APPLICATIONS MUST BE POSTMARKED BY Thursday, March 31th, 2016:**



Mail or email completed application to:  
 Johnson Controls Inc.  
 116 Railroad Ave.  
 Albany, NY 12205  
 518-451-2700  
 David.e.ricci@jci.com

Dave Ricci

# Employment Opportunities

**We are currently accepting employment opportunity advertisements** for this year's newsletters. We have revised our cost for these postings. Rather than a set 'price' there is no cost, but we do highly encourage and appreciate any and all donations to RP, to aid in reaching our RP fundraising goal. Again, the newsletter is distributed to OVER 200 RECIPIENTS each month!

Interested in placing an ad? Please contact me at [adam.feather@trane.com](mailto:adam.feather@trane.com).

## Business Card Ads

The ASHRAE Northeast Chapter would like to thank the following sponsors for choosing to help us by making a donation to ASHRAE Research Promotion:

**We are currently accepting business card advertisements** for this year's newsletters. The cost of a business card ad is \$10.00 per month (this money goes directly to Research Promotion; it is not income for our chapter operations).

If you list an ad for the remainder of the year you will receive 1 month free and your ad will circulate to **OVER 200 RECIPIENTS** each month!

Interested in placing an ad?

Please contact me at [adam.feather@trane.com](mailto:adam.feather@trane.com).

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today.

