



Northeast Chapter

# Thermal Briefs

JANUARY 2016

## JANUARY MEETING Tuesday, January 19, 2016

### One of Kind HVAC&R System

*By Ray Hickey*

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

12:00pm – Lunch and Presentation

Italian American Community Center, Washington Ave Ext

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

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

Students - \$15

RSVP to Tim Houle no later than Tuesday, January 12th  
[Thoule@advancedcomfortsys.com](mailto:Thoule@advancedcomfortsys.com) or 518-884-8444 x3439

#### **Seminar Description:**

This presentation is a case study of a Hospital HVAC system where the DX cooling systems were redesigned due to a variety of original design flaws and miss-communication between the owner and designer. The systems had a major refrigeration management problem and created multiple compressor failures and unscheduled periods of maintenance and repairs. The new design build team identified the problems with the existing systems and changed most of the equipment to provide an energy efficient and hardy system. Topics covered include considerations when retrofitting systems from R-22 to environmentally friendly refrigerants, review of compressor technologies, design of refrigeration piping systems, electronic and mechanical refrigerant flow controls and accessories.

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# Speaker Bio

Name: Ray Hickey

Title: Mechanical Sales Engineer

Company: Advanced Comfort Systems, Inc.

Ray Hickey has been providing energy solving solutions for the HVAC&R industry for decades. He graduated from Hudson Valley Community College with an AAS in HVAC and California Polytechnic College with a BS in Environmental Engineering. He has worked for a consulting engineer, mechanical contractor, refrigerant controls manufacturer, and three manufacturer's representative. Ray has worked in the HVAC&R industry for five decades.

Ray joined ASHRAE in 1969 and RSES in 1974, and has been a member of AEE and AFE. Through these societies and work, he has taught refrigeration and presented energy seminars to the engineering, architecture, and contractors throughout Vermont and New York. He has spent time in the committee chairs in ASHRAE, RSES, AFE and AEE. He is currently the Northeast Chapter ASHRAE chairperson for Refrigeration, the Champlain Valley Chapter ASHRAE attendance chairperson and on the programs committee at the AEE Capital District Chapter.

Ray spends his working time promoting unique energy efficient products by providing assistance to TA companies and working with utilities to process financial incentives for the end users.

In his spare time he golf's, curl's, works in a food pantry, and enjoys his large family.

## 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	455	760	-	275	125	-	2040

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

## Message from the President

Happy 2016 ASHRAE Northeast Chapter Members! We've had a great run in 2015. We kicked off the 2015-2016 chapter year with the annual golf outing at Airway Meadows Golf Club, where we had 106 golfers and 44 tee flags. The staff there have been enormously accommodating to our organization. We've had presentations on topics ranging from High Efficiency Wood Pellet Biomass boilers, presented by our own Chapter Past-President Khaled Yousef, to Proportional Integral Derivative Controls, presented by Kevin Diehl who has 28 years of field experience, to Laboratory Demand Based Controls, presented by ASHRAE Distinguished Lecturer and founder of both Phoenix Controls and Aircuity, Gordon Sharp. Combined, these presenters have 75 years of experience in the HVAC industry! That is a lot of 'lessons-learned' that they have put into their presentations for our benefit. These monthly presentations are a great way to advance our knowledge of systems and solutions in the HVAC field from people who have "been there, done that".

We've announced a handful of new chapter members over the past three months, and hope to meet those folks soon at our upcoming chapter meetings. Please encourage your colleagues to join the Northeast Chapter of ASHRAE so they can get to know the local HVAC community. Making connections with people at our Chapter events is a great way to open opportunities to advance your career.

In the first half of 2016 we'll have the chance to learn about a variety of topics at our monthly meetings, including but not limited to, destratification, hydraulic separation, ASHRAE Standard 100 and water source heat pumps.

I wish you all the best in 2016!

Sincerely,

Dan Williams

2015-2016 Northeast Chapter President

## 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

*Happy New Year!*

Can you believe it's 2016 already? I heard the song "1999" by Prince the other day, and it reminded me of all the craziness the turn of the Millenium created at the time. Just think, that was almost two decades ago!

As we head into the new year, we would like to **update the Roster and release it in a pdf version**. So, we need the help of ALL MEMBERS to participate by verifying your Roster data is correct. Since everyone (except recent members) should have a hard copy of the 2015 Roster, please look up your name and verify the information is still accurate. It will be listed in two locations:

Member Listing:	Name, Company, and Preferred Contact Phone
Company Listing:	Main Company Address, Phone, Fax, Website Your preferred email address - either within the company or your private address if you prefer contact there instead

If the information needs correction, please send Liesl Hammer an email with the following Subject line "**ASHRAE NE Chapter 2016 Roster Correction**" with the corrections clearly noted. Last year's Roster information was compiled from the information in the Society's database (plus a zillion phone calls and emails sent trying to chase everyone down) so please go online and check that all these same data fields listed above are updated on the Society's database as well.

#### **Steps for updating your contact info:**

- 1) Log into [www.ashrae.org](http://www.ashrae.org) by selecting 'Join or Login' in the upper right corner. Enter your email address and password then select 'Sign In.'
- 2) Hover over the 'Membership & Conferences' tab and select 'My Membership.'
- 3) Under 'Manage Personal Information,' select 'update your Bio/View or Edit Your Profile.'
- 4) Select the Orange '**Contact Information**' icon/ link. Update as needed.
- 5) While you're there, check the other icons and update your information as preferred.

**YOUR DEADLINE:** PLEASE COMPLETE BY February 1, 2016

## Meet Our Members

Mr. Scott Burger, joining us from ARCADIS  
**Make sure you give a warm Welcome to our New Members when you meet them!**

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

***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/>**

**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.**

# Message from the Chapter Historian



December 15, 2015 was Past Presidents & Chapter History Night at the Italian American Community Center. Ten former presidents were in attendance. A Chapter History Display complete with photo album was presented.

Pictured from Left to Right are Khaled Yousef (2007-08), Gus Ziamandanis (1974-75), Bradley Fisher (1994-95), Gerard Maricano (1992-93), Stan Westhoff (1985-86), Evan Walden (1993-94), Mike Carr (2011-12), Doug Belokopitsky (2014-15), Rich Vehlow (2005-06) and Mark Cambria (2010-11).

Submitted by Chapter Historian,

*Stan Westhoff*



**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		Citizenship			

**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)



## 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



Northeast HVAC Solutions, Inc. seeks an experienced sales engineer to promote and market top tier HVAC manufacturer's equipment to commercial and industrial customers as well as specifying engineers. Sales of equipment involving the specification, pricing, proposal creation as well as the entire order process will be required of the candidate. Successful candidate will have knowledge of hydronic systems including pumps and cooling towers. The candidate must be able to navigate a fast paced position utilizing all electronic sales tools and company processes. Mechanical engineers with P.E. are encouraged to apply. Positions available in the Clifton Park and Syracuse, NY offices. Advancement opportunities are offered after a successful track record of performance is demonstrated. Position will be an integral part of the growth of the company and only serious and committed individuals should apply. Please email compensation requirements, resume and letter of introduction to [corp@nehvacolutions.com](mailto:corp@nehvacolutions.com). All inquiries are kept in strict confidence.

# 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).

### 2 WAYS TO REGISTER

**Internet:** [www.ashrae.org/orlandocourses](http://www.ashrae.org/orlandocourses)

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

### Full-Day Professional Development Seminars

**\$485/\$395** ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs

#### Commercial Building Energy Audits

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

#### Energy Modeling Best Practices and Applications

Tuesday, January 26, 2016 – 9:00 a.m. to 4:00 p.m.

#### Commissioning Process in New & Existing Buildings

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

#### Operations & Maintenance of High-Performance Buildings

Tuesday, January 26, 2016 – 9:00 a.m. to 4:00 p.m.

#### Designing HVAC Systems to Control Noise & Vibrations

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

### Half-Day Short Courses

**\$159/\$119** ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs

#### Laboratory Design: The Basics and Beyond

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

#### Advoiding IAQ Problems

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

#### Troubleshooting Humidity Control Problems

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

#### Commissioning Process & ASHRAE Standard 202

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

#### Understanding & Designing Dedicated Outdoor Air Systems

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

#### Complying with Standard 90.1-2013: HVAC/Mechanical

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

#### Variable Refrigerant Flow System Design & Applications **NEW!**

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

#### Evaluation and Control of Legionella in Building Water Systems **NEW!**

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

#### Air-to-Air Energy Recovery Applications: Best Practices

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

#### Exceeding Standard 90.1-2013 to Meet LEED Requirements

Monday, January 26, 2016 – 9:00 a.m. to 12:00 p.m.

## ASHRAE HVAC Design Training

### 2 Courses, 5 Days of Intense Instruction

Atlanta • Halifax • Hong Kong • Houston • Kuala Lumpur

Miami • Minneapolis • San Francisco • Vancouver

### HVAC Design: Level I – Essentials - Registration is \$1,264 (\$1,009 ASHRAE Member)

Gain practical skills and knowledge in designing 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.

### HVAC Design: Level II – Applications - Registration is \$854 (\$699 ASHRAE Member)

*HVAC Design: Level II – Applications* provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit [www.ashrae.org/hvactraining](http://www.ashrae.org/hvactraining) to register.

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.

