



Northeast Chapter

Thermal Briefs

FEBRUARY 2016

FEBRUARY MEETING Tuesday, February 16, 2016

Air Movement for Energy Efficient Comfort in Conditioned Spaces

By Laurel Christensen

1 PDH credit APPROVED (and free!)

12:00pm – Lunch and Presentation

Italian American Community Center, Washington Ave Ext

Members - \$15

Non-Members - \$20

Students - \$15

RSVP to Tim Houle no later than Tuesday, February 12th
Thoule@advancedcomfortsys.com or 518-884-8444 x3439

Seminar Description:

As we move increasingly towards market viable net-zero buildings with initiatives like ASHRAE Vision 2020 and the 2030 Challenge, we must reevaluate the role that typical building components play in a facility's energy efficiency. ASHRAE 55 has highlighted the impact of elevated air speed on thermal comfort, and in recent years innovative designs have reestablished air movement as an integral part of occupant comfort and energy conservation. Furthermore, recent changes to Appendix G of ASHRAE 90.1 allow the inclusion of energy savings from using elevated air speed in energy simulations. When integrated into new building designs, air movement allows a reduction of air conditioning capacity and ductwork. In the winter, low speed air circulation redirects heated air trapped at the ceiling, resulting in significant energy savings. Project teams working on net-zero buildings have proven the effectiveness of incorporating air movement in building plans as part of an integrated design strategy.

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Speaker Bio

Name: Laurel Christensen

Title: Architect / Engineer Specialist

Company: Big Ass Solutions

Laurel Christensen is a 2013 graduate of the Masters of Architecture program at the University of Kentucky College of Design, and has been representing Big Ass Solutions in the Northeast for the past two years. As a LEED Green Associate with a passion for design and sustainability, she focuses on educating Architects and Engineers on more energy efficient alternatives to traditional mechanical systems, using elevated air speeds for both perceived cooling and winter time de-stratification.

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	605	760	-	275	125	-	2190

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

I would like to thank all of the chapter members who joined us for the January meeting, and one member in particular who we are all familiar with that presented for us, of course that's Ray Hickey, Advanced Comfort Systems. Thank you Ray for taking the time to create a presentation for the chapter and presenting the case study of an especially troublesome refrigeration system. We appreciate the experiences and knowledge that you shared with the rest of us.

If you've purchased Superbowl Squares to help promote ASHRAE Research Promotion, thank you for your participation and good luck! Enjoy the game (and the commercials). We look forward to seeing you all in a couple of weeks when Laurel Christensen from Big Ass Fans presents on the topic of *Air Movement for Energy Efficient Comfort in Conditioned Spaces* for our February meeting. It's sure to *stir up* some good conversation.

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. Thanks!*

Message from Membership Promotion

ASHRAE Northeast Chapter Roster 2016

is now being prepared! This year we will be releasing the Roster in a PDF format electronically and are asking all members to

OPT IN or OUT to verify their preference regarding inclusion in the pdf release. We hope to complete the work for release by our March Chapter meeting. (Not required for those of you who attended January's Chapter Meeting and already reviewed your info.)

Please cut and paste the following text into an email and send to Liesl.Hammer@gmail.com

Subject Line: **ASHRAE NE Chapter 2016 Roster**

(Pick one of the following statements)

- No, I do not wish to be included in the 2016 Roster.
 Yes, please include me in this year's Chapter 2016 Roster!

(Pick one of the following statements)

- My contact info as printed in the 2015 Roster is correct as is.
 My contact information should read as follows: *(Edit the following for your contact info)*

Member Listing: **Hickey, Raymond** (518) 884-8444
 Advanced Comfort Systems, Inc

Company Listing: **Advanced Comfort Systems, Inc** (518) 884-8444
 12B Commerce Drive (518) 884-8411
 Ballston Spa, NY 12020-1389
 www.advancedcomfortsys.com
 Raymond Hickey rhipkey@advancedcomforsys.com
 Tim Houle thoule@advancedcomfortsys.com

LADIES NIGHT DAY OUT!

Ladies, You are cordially invited to attend a gathering of your fellow ASHRAE Women Members on

April 12, 2016
 Time and Location TBD

Save the Date!

Meet Our Members

Mr. Daniel Mangan
 Mr. Ching-Jen Tang

EYP AE
 GE Global Research

Make sure you give a warm Welcome to our New Members when you meet them!

Message from the Chapter Historian

The year was 1989-90 and the Northeastern New York Chapter President was Timothy Gannon.

The Annual Steak Roast was held September 18, 1989 at the Western Turnpike Golf Club. Bill Seward was in charge of the golf tournament and Joe Ting arranged for the raffle prizes. The volleyball tournament was set up by Richard Barcori with trophies for the first place team and members of that team.

Dinner meetings were held at Donovans restaurant in Clifton Park and the Albany Ramada Inn. A tour of the Shop & Save Supermarket machine room was conducted in October. The February meeting was during Engineers' Week at the Empire State Plaza with a seminar on global warming with the speaker being Robert Kwartin the Program Manager of the Global Change Division of the US EPA and James Calm the Director of Research for ARI.

On June 15, 1990 the Northeastern New York Chapter hosted a social event and Officers' Installation at the Saratoga Raceway. A good time was had by all.

And that is the way it was in 1989-90.

Northeast Chapter Historian

Stan Westhoff



Ray Hickey presenting about refrigeration systems at our January lunch meeting.

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.



NYS WBE SHOWCASE MARCH 15TH, 2016

**THE CAPITAL DISTRICT NATIONAL WOMEN IN
CONSTRUCTION (NAWIC CHAPTER #261) PRESENTS**

Meet the WBEs Event will be held March 15th at 5:00pm at The Century House in Latham. Use this exclusive opportunity to meet the successful NYS certified WBEs and expand your company's network.

Under Governor Cuomo's leadership by the end of 2014, State agencies and authorities were awarding 25.12 percent of all contracts to MWBEs far exceeding the Governor's stated goal of 20 percent. That spending translates into over \$1.9 billion in contracts with MWBEs, the highest of any State in the country. In 2014, Governor Cuomo increased the statewide goal to 30 percent – leading, again, the country in increasing opportunities for minority and women-owned businesses. (Sourced NYS WBE Forum Page)



**New York State
Women Business
Enterprise Showcase
Invited are all State
Agencies, Architects,
Subcontractors,
Owners, Developers
and Engineers.
Meet & Greet NYS
Certified Women
Business Owners
Multiple trades will
be available to meet.**

For more details visit
www.nawicnycap.org
Email carol@campito.com
or eileenv@mechtest.com
Carol@campito.com or
eileenv@mechtest.com

**BROUGHT TO
YOU BY NAWIC
CAPITAL
DISTRICT
CHAPTER #261**



**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)

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. 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.

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.

2 WAYS TO REGISTER

Take 3 or more courses and save 15% off registration!

Internet: www.ashrae.org/orlandocourses

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

Note: You may register up to 24 hours prior to an online course. Courses are in US Eastern Time.

Combined Heat & Power: Creating Efficiency through Design & Operations

Mon, March 28, 2016 - 1:00 pm to 4:00 pm EDT

Commissioning Process & Standard 202

Wed, March 30, 2016 - 1:00 pm to 4:00 pm EDT

Advanced High Performance Building Design

Mon, March 23, 2016 - 1:00 pm to 4:00 pm EDT

IT Equipment Design Evolution & Data Center Operation Optimization

Wed, April 6, 2016 - 1:00 pm to 4:00 pm EDT

Complying with Standard 90.1-2013: HVAC/Mechanical

Wed, April 13, 2016 - 1:00 pm to 4:00 pm EDT

Laboratory Design: The Basics and Beyond

Mon, April 18, 2016 - 1:00 pm to 4:00 pm EDT

Standard 188-2015 - Successfully Managing the Risk of Legionellosis

Mon, April 25, 2016 - 1:00 pm to 4:00 pm EDT

Air-to-Air Energy Recovery Applications: Best Practices

Wed, April 27, 2016 - 1:00 pm to 4:00 pm EDT

Instructor: Paul Pieper

Functional Requirements of Standard 62.1-2013

Mon, May 2, 2016 - 1:00 pm to 4:00 pm EDT

Instructor: Hoy Bohanon

Variable Refrigerant Flow System Design & Applications

Mon, May 16, 2016 - 1:00 pm to 4:00 pm EDT

Instructor: Dermot McMorrow

The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH Credits.

Exceeding Std 90.1-2013 to meet LEED Requirements

Part 1: Mon, April 11, 2016 - 1:00 pm to 4:00 pm EDT

Part 2: Wed, April 20, 2016 - 1:00 pm to 4:00 pm EDT

O&M of High-Performance Buildings

Part 1: Tue, May 17, 2016 - 1:00 pm to 4:00 pm EDT

Part 2: Wed, May 18, 2016 - 1:00 pm to 4:00 pm EDT

ASHRAE HVAC Design Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Cleveland • 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 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.

