



Northeast Chapter

Thermal Briefs

MARCH 2015

APRIL MEETING TUESDAY, APRIL 21, 2015

Variable Refrigerant Flow Basics

Presenter: Jason Signor, PE
LG Commercial AC

Approval for 1 PDH credit pending!

12:00pm - Lunch and Presentation

Italian American Community Center, Washington Ave Ext

Members \$30 (\$40 with PDH)

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

RSVP to Tim Houle no later than Thursday, January 13th

Thoule@advancedcomfortsys.com or 518-844-8444 x3439

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The VRF Basics presentation covers the following aspects of variable refrigerant flow systems:

A brief history of VRF

The criteria that must be considered to properly design a VRF system
How VRF systems work.

Why VRF systems are an efficient solution for many design applications.

Comparison of installed cost between VRF and other HVAC solutions.

Applicable standards/guidelines.



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APRIL MEETING TUESDAY, APRIL 21, 2015

Speaker Bio:

Jason Signor:

Currently LGs commercial air conditioning division regional sales engineer, graduated from Alfred state college with a bachelor's degree in mechanical engineering technology. Work experience includes a brief stint as a civil engineer, approximately 8 years as consulting engineer with CHA concentrating in HVAC and plumbing design where he obtained his PE. Trying another path Jason left consulting to become a manufacturers' representative with LJ Early company for 2 years. He has now been with LG for almost 2 years concentrating in variable refrigerant flow systems.

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Message from the President

I think the question we are all asking is will Spring ever make it to Upstate New York? It has certainly been a tough winter in terms of snow accumulation and cold weather. In spite of the weather, we have been able to increase the attendance at our monthly meetings. I am so pleased to report this, as it was a major goal of mine when I started my term as President. I would like to thank all our members and guests who headed out in spite of the weather and joined our events. I would also like to thank Dan Williams our CTTC Chair for bringing us excellent speakers and topics.

Our membership chair Liesl Hammer is in the final stages of producing a Membership Directory for the Chapter, we are hoping to distribute to them at upcoming meetings. We have not produced a directory in a few years so we are excited to start this process again. Our goal is to produce this publication every other year, as a benefit of our membership in ASHRAE. It has taken many emails and hours to produce this with the most accurate information, Liesl has done an outstanding job and I sincerely appreciate all her efforts.

The Nominating Committee presented the following slate of officers for the 2015-2016 Chapter year:

David Houle	President – Elect
Adam Feather	Vice President
Kevin Doty	Treasurer
Trevor Gensch	Secretary
Timothy Houle	Board of Governor (2015-2016)
John Thomas	Board of Governor (2015-2016)
Russ Danforth	Board of Governor (2015-2016)
Todd Turcotte	Board of Governor (2015-2016)
Greg Kirkpatrick	Board of Governor (2015-2016)

Balloting will take place at our April 21, 2015 meeting.

I hope to see you all at our April meeting. Details will follow on the speaker and topic in the near future, so look for the email or check the Chapters website.

Sincerely,

Douglas Belokopitsky

Chapter President

Message from Historian

DOUG BELOKOPITSKY

NORTHEAST CHAPTER PRESIDENT 2014 - 2015



Doug was born and raised in Colonie, NY and attended Watervliet schools including Watervliet High School. Upon graduation he attended Hudson Valley Community College where he received an Associate Degree with a primary course of study in HVAC. He also is close to a Marketing Degree from Siena.

Doug started in HVAC because his family owned an installation and service business where he worked while in school before going to work for WW Granger in Albany where he was a product specialist for air moving products. After eight years with WW Granger, Doug took an outside sales position with FW Webb where he has worked for sixteen years. He is now Commercial Sales Manager for New York State.

The variety and opportunities that the HVAC industry provides makes this industry very enjoyable for him.

Doug started with ASHRAE seven years ago after attending several meetings and technical sessions. Gene Hickok encouraged him to join as a way to meet the engineering community and network with like-minded people in the industry who enjoy the educational benefits that ASHRAE can provide in addition to the social interaction.

About seven years ago he became the Research Promotion Chair and received an Honorable Mention Award. He served the chapter as Secretary, Treasurer, Vice President, President-Elect and finally President of the Northeast Chapter for 2014-2015 Society year.

Doug is looking forward to serving on the Board of Governors next year and has some interest in serving at the Region I level.

Doug is married to his wife Kyle who is an Attorney for New York State United Teachers (NYSUT). He has two sons. Zachary just graduated from the University of Miami with a degree in Finance. Jackson is five and is in Kindergarten.

In his spare time he likes to travel and the Caribbean is a favorite spot. He enjoys water sports and has a boat on Saratoga Lake. He also like to ski and hike and do home projects when time permits.

We wish him well and hope to see him at the Regional level at some point in the future.

Stan Westhoff

Message from Membership

March

Message from Membership Promotion

Membership Analysis - That's what I've been doing lately. This month I thought I'd share some interesting facts I've learned studying our Membership demographics.



Did you Know?

There are only 21 women in our Chapter? That's less than 8%.

There are 4 Students in our Chapter?

The average age of our members is 50. (Yeah that surprised me too)

YEA members number 19%. Members over 35 are 71% and 10% are *"timeless"*

Roughly half our members are Associate Members, 48% Full Members and of those, 10% are Life Members.

Our members list 10 states as their primary address. 88% are located in NY. Of that 88%, 95% are located in the (more than) greater Albany area. The next area of concentration is around Poughkeepsie.

62% of members receive their correspondence at work, the other 36% at home. (Yes, I know that doesn't add up. J The other few have some other lingo in that database field, like "Ship To")

The Society assigns members to our chapter, but not all members choose to join the local chapter. 88 or 32% of the members on our roster are NOT members of the local chapter. That's a pretty high percentage, even considering some of our members are from neighboring states.

Speaking of which.

If you are NOT a member of the local Chapter, your name will not appear in the Roster we plan to release in April. Go online and check your profile. It should read: "Chp_Active." If it lists you as "Chp_Assigned" it means you either did not check off our chapter (NORTHEAST) when you paid your dues online, or you haven't given Mr. Tim Houle the extra \$30 (in addition to the per meeting cost) for our local chapter dues.

Dues can also be paid directly to our Treasurer, who is Mr. David Houle this year, or mailed in to the address below.

To join the local chapter, please send a check for \$30, payable to ASHRAE NE CHAPTER, to

ASHRAE NE Chapter

PO Box 13933

Albany, NY 12212-3933

Any Questions?

Direct those or errors noted to liesl.hammer@gmail.com

Message from Research Promotion

Please consider placing your business card ads in our next issue. The small \$60 contribution we require goes completely to Research promotions and allows your ad to run the entire year. If you have any job postings you'd like to post we only ask a small contribution of \$50 per month. This Newsletter is circulated to over 200 monthly!

If you would like to make a donation to RP please contact me at cschmidt@b2qassociates.com. For further information on ASHRAE Research and the work your contributions support please visit: <https://www.ashrae.org/standards-research--technology/research-promotion> Here you can contribute and learn about current and past ASHRAE Research projects.

Thank you all very much for your generosity!

Thanks again,
Chris Schmidt

Message from Refrigeration

Thermal Brief Article for March 2015 - Refrigeration Committee

You would not believe all the types of new and old equipment on show at the 2015 AHR Show in Chicago, January 26 -28. The weather was fairly mild too!

I believe the newest but really the expanded technology that will affect the industry is the ECM fan/pump motor. For many years the ECM technology quietly crept into market place on small evaporator motors and pumps. Benoit was the brand that was prevalent in the ½ - 1 HP range.

Many of the high efficiency packaged terminal units such as residential furnaces, fan coils, unit ventilators and water source heat pumps used the ECM fans up to 6 tons.

Later we saw the manufactures of "CRAC" unit replace the belt driven forward curved fans with these new internal rotor motors which have been in production in Europe for many years.

Today the limit of 1 HP has been broken. They now have ECM technology up to 3 HP or 8,000 CFM at a total static of 4 inches. One manufacturer stated that they would have this technology up to 12 HP in the near future.

Last year we saw several manufacturers of large custom handling units utilize several direct drive fans in an array or "fan-wall" with variable speed drives operating all fans with one VFD or each fan having its own VFD. At the show there was a 3,000 CFM AHU with four (4) ECM fans in an array.

Just think... no more belts, sheaves, or pulleys! No more bearing blocks to lubricate...fans so light that you won't need a block & tackle to remove and service....and AHUs will now be shorter.

Ray Hickey, Northeast Chapter ASHRAE Refrigeration Chair

Message from Student Activities

Below is a scholarship we offer annually. If you know of any hard working students that could use a break, spread the word!

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		Address		Phone
Name & Relation		Address		Phone
Please list any associations with ASHRAE Northeast chapter members.				
Name & Relation		Address		Phone

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

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



Message from Newsletter Editor

The Chapter would like to thank Justin Dascoli of Phoenix Controls for presenting OR and Critical space HVAC solutions at our March meeting.



Business Card Ads

We are currently accepting business card advertisements for this year's newsletters. The cost of a business card ad is \$60.00 per year. The newsletter is published monthly, September through June (ten total issues).

Your business card ad will circulate to OVER 200 RECIPIENTS each month!



Employment Opportunities

We are currently accepting employment opportunity advertisements for this year's newsletters. The cost of a business card ad is \$50.00 per month. Again, the newsletter is distributed to OVER 200 RECIPIENTS each month!

Interested in placing an ad? Please contact me at Erick_moser@genpt.com





Mechanical Engineer / Entry & Intermediate Levels

Stantec Consulting Services, Inc. 3 Columbia Circle, Suite 6, Albany, NY 12203 has immediate openings for entry and intermediate level mechanical engineers to help us further grow to support the needs of our clients. Our Albany office has decades of experience in buildings engineering via intelligent design with innovative execution. Our team in Albany specializes in buildings engineering with a strong emphasis on central utility systems and HVAC for industrial, pharmaceutical and biotech clients with extended experience in commercial, institutional, laboratory and higher education design.

Your Responsibilities:

- Performing load calculations for new and renovation construction projects.
- Sizing and selection of mechanical and plumbing equipment (AHUs pumps, fans, plumbing fixtures, chillers, boilers, etc.)
- Produce complete sets of mechanical and plumbing drawings and specifications.
- Coordination of documents with other disciplines (Architectural, Structural, Civil, Electrical, Process) and ability to also work efficiently with construction contractors.
- Prepare engineering studies and schematic design for new HVAC/Utilities systems and analyze the operation of existing systems.
- Knowledge of mechanical and plumbing code requirements and ability to make interpretations or exceptions where required.
- The ability to manage, prioritize and expedite multiple priorities.



Assess project requirements, breakdown of project into tasks and coordination with Project Managers to determine scope of work for mechanical tasks.

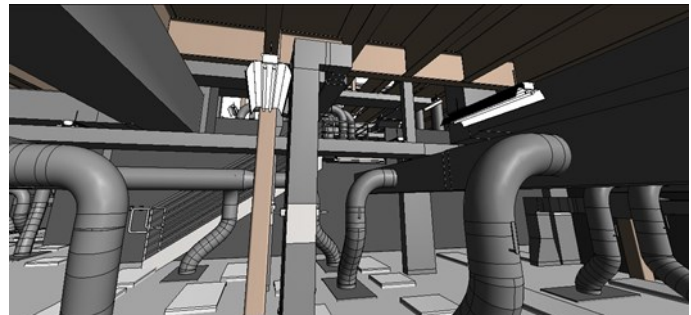
Your Capabilities and Credentials:

- Bachelor's Degree in Mechanical Engineering or 7+ years of mechanical design experience
- Pharmaceutical, Biotech, Life Sciences or Laboratory design experience is preferred, but not required
- Registered Professional Engineer (PE) preferred, but not required
- HVAC and Utilities design experience
- Experience with AutoCAD, Revit, Trane Trace or Carrier HAP beneficial
- Must be able to work well independently as well as with a larger team of designers and engineers.

Must be detail-oriented with effective communication skills both verbally and written.

Stantec [Stantec.com] offers a competitive benefits plan including health insurance, 401-K plan, dental, vision, employee stock purchase, vacation, paid holidays and more. Salary negotiated based on candidate qualifications. Send resumes to Jared Waugh.

Email: jared.waugh@stantec.com



Our Company

SSOE is a leading design and construction management firm focusing on the industrial, food, automotive, energy, and advanced technology research/manufacturing sectors. Design and construction excellence, efficient delivery, and total client satisfaction have led to our unprecedented growth and leadership position. We are looking for strong candidates who share our vision and passion.

Established in 1948, we have 29 offices in 8 countries. The position described below is for our **Albany** location. To learn more about us, please visit www.ssoe.com.

Positions Available

Due to our increasing number of projects and growing clientele-base, SSOE is seeking a full time **Mechanical Project Engineer** to join our dynamic and innovative team. The Project Engineer will be responsible for performing a variety of engineering assignments and will oversee various projects by effectively utilizing resources to provide a finished product that meets all aspects of the construction/engineering specifications and design. It is desired that the candidate have 5-10 years of applicable experience. PE license preferred.

Primary duties and responsibilities:

Interface with multiple disciplines, Project Management, System Owners, customers, contractors and AHJ teams.

Manage engineering project workflows, delegate work and ensure projects are profitable and delivered on time.

Perform mechanical wet-side, hydronic systems design, mechanical dry-side HVAC and exhaust systems design.

Perform plumbing and fire Protection systems design, Process mechanical systems design and Control systems design.

Mentor junior staff

Prepare performance and equipment specifications

Provide technical supervision and direction of project team members (including engineers, designers, drafters and administrative personnel).

Review design documents prepared by other engineers, designers and drafters

Knowledge, skills, and abilities:

Mechanical design background in industrial and advanced tech facilities, cleanroom design experience a plus.

Project management skills including preparing budgets, proposals and tracking financial performance.

Central Utilities and Energy Plant Experience.

Experience in systems design and implementation from concept design and criteria development through commissioning and turnover.

Familiar with applicable Codes and Standards including ability to understand and apply Client's Design Standards.

Ability to read and interpret construction contract documents.

Effective communication presentation skills.

Some travel may be required.

Effective communication and impromptu problem solving skills

Must be authorized to work in the United States on a full-time basis for any employer. SSOE is a drug-free work place. All offers of employment are contingent upon successfully passing a drug screen with negative results, as well as clear background check results.

Only qualified candidates will be contacted. No phone calls or inquiries, please.

If you are interested in applying for this position, and you meet the requirements, please submit your resume and cover letter including salary requirements to: Paula Catellier at pcatellier@ssoe.com



The Superior Group is seeking a Sales Engineer for a distributor in the Albany area.

Summary: Supports the company's sales goals through professional sales techniques and good customer service, maintains quality relations with existing accounts, and provides sales and marketing coverage by performing the following duties.

Duties and Responsibilities include the following. Other duties may be assigned.

- Develops maximum sales potential out of assigned territory through competitive sales techniques and knowledge of the company's products and services as well as the competition's strengths/weaknesses.*
- Creates customized proposals to meet specific customer requirements in an efficient, detailed and timely manner.*
- Builds and maintains quality relations with existing assigned accounts and increases volume of sales on a consistent basis.*
- Utilizes company leads to expand current customer base and follows up all leads promptly.*
- Stays abreast and advises management of market conditions regarding products, product updates, service offerings and new technologies through available resources by participating in appropriate professional organizations.*
- Provides accurate and complete documentation for order entry and purchasing.*
- Completes and submits sales reports each month on sales calls, outstanding quotes, jobs out for approval and quotes lost with complete documentation.*
- Completes and submits expense reports and mileage logs on a monthly basis with complete documentation.*
- Ensures a professional and orderly company image at all times.*
- Attends and participates in company sales meetings.*
- Assists in the training of co-workers as assigned.*
- Occasional overnight travel may be required

Required Skills / Qualifications:

- Bachelor's Degree
- 6 years of experience in a technical sales role
- Valid driver's license
- Ability to lift 75 pounds
- 1 year of experience working with computer databases

Preferred Skills / Qualifications:

- Excellent communication, math and mechanical skills

If interested call:

Connor Dean | Recruitment Specialist
Superior Talent Resources, Inc.

716.630.2979

Northeast Chapter Officers and Board of Governors 2014-15

Chapter President:	Douglas Belokopitsky
President Elect/CTTC/Program Chair:	Dan Williams
Vice President/ Newsletter Editor:	Erick Moser
Treasurer:	David Houle
Secretary:	Adam Feather
Board of Governors	John Thomas
Board of Governors:	Russ Danforth
Board of Governors:	Greg Kirkpatrick
Board of Governors:	Trevor Gensch
Board of Governors:	Tim Houle
Membership Chair:	Liesl Hammer
Student Activities Chair:	Dave Ricci
Research Promotion Chair:	Chris Schmidt
Refrigeration Chair	Ray Hickey
Historian:	Stanley Westhoff
YEA:	Brian Meneghan
Government Activities:	Open

