



Northeast Chapter

Thermal Briefs

JANUARY 2015

FEBRUARY MEETING TUESDAY, FEBRUARY 17, 2015

Cleaning and Treating HVAC Systems

Presenter: Jerry Meyer Jr

M.I.S of America

Approved 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 cleaning and treatment of new HVAC systems is often a secondary concern, frequently left off of new specs or left for the contractor or owner to complete. New products and new metallurgy bring new solutions, there are easy solutions to the problem. Correctly specifying the best cleaning and treating solutions prevents the little problems that over time will become big problems. The presentation discusses cleaning/treating existing systems, steam systems, closed loop and open systems."



Northeast Chapter

Thermal Briefs

JANUARY 2015

DECEMBER MEETING TUESDAY, FEBRUARY 17, 2015

Speaker Bio:

Jerry Meyer Jr, CWT, *President*

Jerry graduated from SUNY Oswego in 1993 with a dual Bachelor's Degree. After coming to M.I.S. of America full time in the fall of that year he took over and developed the Central New York territory. He served water treatment customers from Watertown and Canton areas in the North to Binghamton in the South and Albany in the East. Jerry assumed the responsibilities of Sales Manager in August of 2006 and President in 2012. Jerry is a CWT, Certified Water Technologist, and has extensive experience in troubleshooting water treatment concerns.

He has spoken and presented for local ASHRAE, ESB, SOBG, Plastic Engineering Society, and other organizations, covering water treatment, basic maintenance, troubleshooting, Legionella Management Programs, and non-chemical devices.

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Message from the President

I hope that everyone had a safe and holiday season and Happy New Year. The holidays are a great time of the year, but if you're anything like me you may be glad they are over and we can focus our energy on the New Year.

At our December meeting we celebrated "Past Presidents" night, and had a great showing of Past Presidents in attendance. I would like to take the opportunity to thank them for joining us on an evening that is dedicated to their prior service to the chapter. Our speaker that evening was Joe Klotz of Johnson Controls and his topic was New "Found Money" for Facility Managers. While I was not present that evening the feedback I received was positive and the course evaluations proved that.

In January we hosted an ASHRAE Distinguished Lecturer. Ron Jarnagin is not only a Past Society President but was instrumental in drafting ASHRAE 90.1, I am grateful he presented.



Our next presentation will be a lunch presentation Tuesday February 17th and will cover HVAC cleaning and Treatment.

11:45am Sign-in/Registration

12:00pm Lunch

12:10pm Chapter Business

12:15pm Technical Presentation

1:05pm Q/A

1:15pm Adjourn

Lastly, we still have openings for speakers at future meetings. If there is a particular subject matter you would like to see or if you have a speaker in mind, please contact the Chapter Technology Chair, Dan Williams, danw@sagellp.com

Sincerely

Doug Belokopitsky

Northeast Chapter of ASHRAE

President.

Message from Membership

Roster Update:

Last month I issued a “Last Call” to have people update their membership bios to make sure they are correct for the upcoming Roster release. I realize now that Major Holiday time is *not* a very good time to request extra attention from our members. My bad!



WHERE ARE YOU?

61 people on the roster have NO Company and Job Title listed.

Since I recognized several of the names (two are BOG Members), and I know where they work, I expect many more of the others are likely just outdated too. Since a section of the roster will list each member by firm, this will mean a **large** number of people will be listed under “No Company Listing” if they don’t update their profile. If this applies to you, I believe you would prefer to see your name listed accurately. So go check your data; you might think it’s accurate when it’s not.

How to do? Log in to <https://www.ashrae.org> and follow these steps:

- Under the blue pulldown Header titled “Membership & Conferences” all the way to the right, click on **My Membership**

Under “Manage Personal Information” click on **Update Your Bio / View or Edit Your Profile**
On the ribbon line at the top click on **Bio Info**

- Make sure your Employer and Job Title are correct and filled in
- Then go to **Contact Info** and make sure your primary email is the correct address

While you’re at it, check all your entries for each of the ribbon tabs. Can’t hurt to make sure it’s all the way you want it while you’re there!

Sales Reps:

The Roster Committee will need updated Line cards or a list of all the manufacturer’s you represent. One section of the roster will be dedicated to products only and will list who is the local representative for that particular product. **Please note:** this **will not** be a reprinting of your line cards; the format is much different than the previously released roster. You will want your products listed!

Please send updated line cards to liesl.hammer@gmail.com If you’d like to see a sample layout, feel free to drop me a line requesting a copy.

Liesl Hammer

ASHRAE Northeast Chapter Membership Promotion Chair

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

In 1987 the MONTREAL PROTOCOL meeting was convened to discuss substances that caused reduction in the earth's ozone layer. It ended up identifying chemical compounds that somehow if discharged through manufacturing or operating equipment leakage would deplete the fragile ozone layer. The next step was to reduce and eliminate these chemicals/materials/processes. Many countries joined in on this project and many refrigerants were scheduled to be reduced and finally phased out of production.

The Ozone Depletion Potential (ODP) was given to many chemicals/products which would let one identify which specific chemical/product/ refrigerant would cause the most damage. All refrigerants used Refrigerant 11 (R-11) as a datum point reference And R-11 was given the value of 1.0 ODP. The less the value or ODP of the refrigerant, the better for the ozone layer.

For your reference, the following is a list of some older refrigerants and their ODP.

12 used in older refrigerators and medium temperature refrigeration applications	- 1.0 ODP	R-
used in most air conditioning applications	- 0.055 ODP	R-22
502 used in low temperature refrigeration	- 0.334 ODP	R-
-123 used in some centrifugal chillers	- 0.02 ODP	R

Now we have refrigerants that have gotten the ODP down to (0) zero.

R-12 was replaced with R-134A.

R-22 was replaced with R-407C and R-410A.

R-502 was replaced with R-404A.

R-123 was replaced with R-134A.

We are talking about high volume equipment and high refrigerant volume usage....

There are still many other different refrigerants that are used in smaller applications such as medical, non medical propellants, transport, motor vehicles, domestic, and ultra low temperature applications.

Message from Refrigeration

OOPS! What about Global Warming Potential (GWP)?

GWP is a relative measure of how much heat a greenhouse gas traps in the atmosphere. It compares the amount of heat trapped by a certain mass of the gas in question to the amount of heat trapped by a similar mass of carbon dioxide.

There must be a reason why they always pick on refrigerants we use so we can invent or use newer refrigerant. I also believe they like to put taxes on these refrigerants.

So the GWP of our “new refrigerants are as follows with the datum reference of R-12 at 10,000 GWP.

R-134A has a GWP of 1,400.

R-407C has a GWP of 1,774.

R-404A has a GWP of 3,922.

R-410A has a GWP of 2,088.

Now what is our next step?

Let us break it down by application.

Commercial refrigeration could use R-717 ammonia with a (0) ODP and (0) GWP.

Or CO₂ with a (0) ODP and a (1) GWP.

Or R-290 Propane with a (0) ODP and a (3.3) GWP.

Or R-134A with a (0) ODP and a (1,430) GWP.

Domestic Refrigeration could use R-600A with a (0) ODP and a (3) GWP.

Or R-152A with a (0) ODP and a (124) GWP.

Or R-134A with a (0) ODP and a 1,430 GWP.

Unitary Air Conditioning could use R-407C with a (0) ODP and a (1,774) GWP.

Or R-22 with a (0.055) ODP and a (1,180) GWP.

Or R-410A with a (0) ODP and a (2,088) GWP.

Motor Vehicle could use CO₂ with (0) ODP and (1) GWP.

Or R-1234yf with a (0) ODP and (4) GWP.

Or R-152A with a (0) ODP and (124) GWP.

Or R-134A with a (0) ODP and (1,430) GWP.

Some of the other “good” ones are:

R-227EA

R-142B

R-245FA

R-1233ZD(E)

R-1234ZE(A)

Isobutane

Hexane

Heptane

And there is more.....you're going to have to figure it out!

Ray Hickey

Refrigerant 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

With winter among us we find ourselves less likely to venture out in the cold weather. I urge you to fight cabin fever and come to our monthly meetings. There's typically a PDH attached to our presentations for the PE's in the crowd. The meals are good and the location is easy to find right by Crossgates commons. If you've never attended a meeting perhaps it's time to see what it's all about? Meet mingle and be involved with the most important organization in our industry, ASHRAE!

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!

Interested in placing an ad? Please contact cschmidt@b2qassociates.com



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@rpfedder.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.

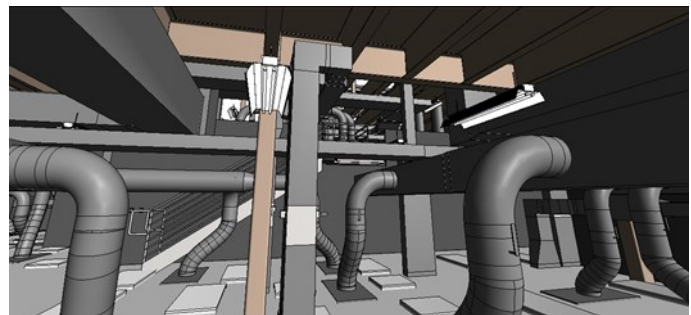
Your Capabilities and Credentials:

- 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





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
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Historian:	Stanley Westhoff
YEA:	Brian Meneghan
Government Activities:	Open

