



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

Special points of interest:

- President Message
- Twin Tier News
- Monthly Meetings
- Society News
- Scholarships
- Business Card Advertisements
- Employment

ASHRAE 2016-2017



January Meeting

Past Presidents, History, &
Membership Promotion Night

January 17, 2017

Presentation:

Introduction to Cleanroom Design

R. Vijayakumar, Ph.D.

ASHRAE Distinguished Lecturer

TWIN TIERS TALK



To register, visit the Chapter website:

<http://twintiers.ashraechapters.org>

Please send all newsletter comments to:

Andrew Nice, Editor
c/o Meier Supply Co.
275 Broome Corporate Parkway
Conklin, NY 13748

[Email the Editor](#)

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Corner

President's

Happy New Year Twin Tiers,

I hope everyone had a chance to rest and enjoy the holidays with family and friends. This month's meeting always sneaks up fast, so I apologize for the delay in distribution of the newsletter and meeting flyer.

To ring in the new year we have a huge event this month and a special guest! We have the pleasure of having a Distinguished Lecturer, R. Vijayakimar, to discuss the basics of cleanroom design at Cornell University's Statler Hotel. We hope to have a short tour of CU's cleanroom at Duffield Hall as well. Stay tuned!

This month's theme is past presidents night. Twin Tiers will honor our past presidents with free admission and recognize them at the meeting.

Hope to see you all there!

-Travis
Twin Tiers Chapter President

Chapter President



Travis R. Fisher
(607) 255-5608

[Email Me!](#)

2016-2017 Chapter Officers

President-Elect

Petros Papathomopoulos
(607) 723-9421

[Email Me!](#)



Vice President

Michael McGinnis
(607) 727-3168

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Treasurer

Kyle Nedlik
(607) 321-6100

[Email Me!](#)



Secretary

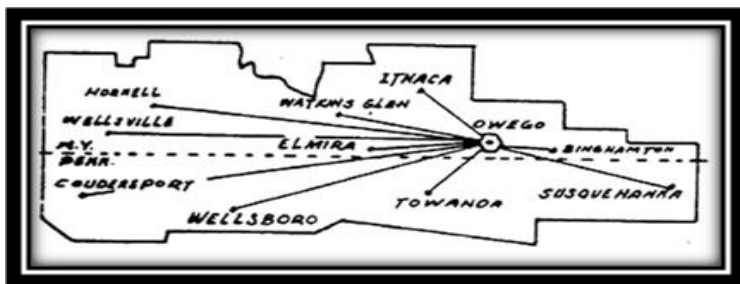
Devin Shapley
(607) 723-9421

[Email Me!](#)



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

Twin Tiers Chapter

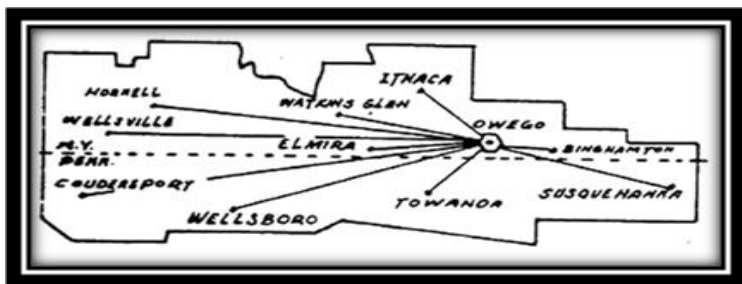
Presidential Award of Excellence (PAOE)

	Chapter Operations	Chapter Technology Transfer	Grassroots Government Activities	Historical	Membership Promotion	Research Promotion	Student Activities
MIN/PAR	600/1200	450/1050	500/650	100/300	500/800	800/1050	300/500
Current	595	250	350	330	905	690	100

POINTS CURRENT AS OF 1/11/2017

Chapter Committee Chairs

Technology Transfer Petros Papathomopoulos (607) 723-9421 Email Me!	Government Activities Doug Breese (585)402-7090 Email Me!	Refrigeration Rob VanSkiver (585) 591-8168 Email Me!	Golf & Clambake Outing Michael McGinnis (607)727-3168 Email Me!
Membership Promotion Chris Wolak (484) 350-1954 Email Me!	Nominating Andrew Nice 607-760-5960 Email Me!	Meeting Reception Kyle Nedlik (607) 321-6100 Email Me!	H.O. Ward Scholarship Jason Gilbert (607) 777-2240 Email Me!
Research Promotion Glenn Roberts (315)234-1527 Email Me!	Student Activities Jason Gilbert (607) 777-2240 Email Me!	Membership Directory Chris Wolak (484) 350-1954 Email Me!	Albern Education Fund Richard Sanguinito (607) 231-6605 Email Me!
Honors & Awards Doug Breese (585)402-7090 Email Me!	Historian Richard Sanguinito (607) 231-6605 Email Me!	Symposium– Fall/Spring Petros Papathomopoulos (607) 723-9421 Email Me!	Auditing Rick Sanguinito & Jason Gilbert (607) 231-6605 Email Me!
Webmaster Mike Colwell (570) 706-0690 Email Me!	Newsletter Editor Andrew Nice 607-760-5960 Email Me!	YEA: Young Engineers Devin Shapley (607)723-4979 Email Me!	Publicity Andrew Nice 607-760-5960 Email Me!



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

Twin Tiers Chapter– Monthly Meeting Information

2016-2017 Meeting Dates:

Date:	Speaker	Tech Session Topic, Tour or Meeting Info	Attendance:
20-Sep	Andy Nice, Meier Supply Co.	VRF Training Center Tour and Properly Specifying VRF Presentation	21
18-Oct	Stan Kutin, Bell & Gossett	Advancements in Pumping & Motor Efficiency	23
15-Nov	Mark Casadevall, Ardagh Group Steven Walker, Ardagh Group	Tour of Ardagh Group LEED Canning Facility	23
20-Dec	Theodore Firnstein, Siemens	Green Lab Solutions (PDH) Theme: RP Night	20
17-Jan	R. Vijayakumar, Ph.D. ASHRAE Distinguished Lecturer	Basics of Cleanroom Design Themes: Past President, Membership Promotion, History	
21-Feb	Mike Gavin, REHAU Inc	Snow and Ice Melting Systems (PDH) Theme: Refrigeration	
21-Mar	Jason Gilbert, Binghamton University	Binghamton University Tour Themes: Student Night, YEA, History	
18-Apr	Multiple/TBD	Spring Engineering Symposium—Daytime	
16-May	Jason Gilbert, Binghamton University	Binghamton University Tour Themes: Student Night, YEA	
20-Jun	None	Golf Tournament	

NOTE: Speakers and topics are subject to change based on availability.

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

Membership Promotion Message

Chapter Membership Promotion

Chris Wolak

As we begin a new chapter year I would like to remind everyone that ASHRAE has two different membership grades: Associate and Member. Full member status is available to all members with 12 years of experience in the industry. This includes any post high school education. For example, if you have eight years' experience in the industry and hold a bachelor's degree, you would be available for full member status. If you have the required experience, all you need to do is to upgrade your bio at ASHRAE.org and send me a note once its updated. Since we started the new year, the following associate members have been upgraded to full member status:

Glen Roberts
Petros Papathomopoulos
Joe Parisella
Mike McGinnis
Travis Fisher
Rob VanSkiver

Our chapter roster indicates that we have 25 members over the age of 32 that are associate status, next time you renew your membership please take a few minutes to update your bio.

Chris Wolak
Twin Tiers Membership Chair

[Email Me](#)



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

Twin Tiers ASHRAE H.O. Ward Scholarship

Twin Tiers Chapter

Last year we had Two scholarship recipients

Ryan Phillips

- H. O. Ward scholarship 2016
One Thousand dollars \$1,000.00
- Mr and Mrs Dave Stipanuk Supplement 2016
Three Hundred Seventy Five dollars \$375.00

Amanda Breese

- H. O. Ward scholarship 2016
Five Hundred dollars \$500.00
- Mr and Mrs Dave Stipanuk Supplement 2016
Three Hundred Seventy Five dollars \$375.00

We are offering scholarship opportunities for student members, children of members, grandchildren of members, nephews and nieces of members.

Please consider passing this application to your children or grandchildren. The program is guided for HVAC interest. This would include but not limited to

- HVAC trade school students
- Engineering students in building programs
- Engineering students with an interest to become a Professional Engineer (Mechanical)
- Engineering students in manufacturing (HVAC equipment)
- Engineering / trade school student that can demonstrate how their study relates to HVAC aspect like building trades, equipment manufacturing, research and development, HVAC maintenance, etc..

APPLICATIONS MUST BE SUBMITTED BY FEBRUARY 15, 2017

Head over to our website for the application.

<http://twintiers.ashraechapters.org/>

Richard Sanguinito

Twin Tiers H.O. Ward Scholarship Committee Chair

[Email Me](#)



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

January Meeting Announcement

January 17, 2017

Past President's, History, & Promotion Night!!!

January Chapter Meeting

Presentation: Introduction to Cleanroom Design

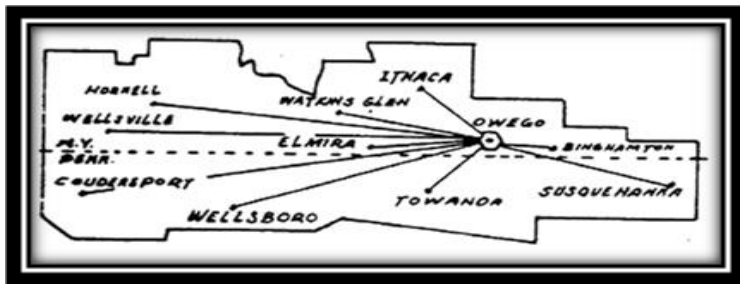
Description: Ensuring that a cleanroom meets its desired cleanliness objectives requires an understanding of the key elements of cleanroom designs. This seminar will present the essential concepts of air filters and their performance, good airflow management, and common room layout and designs. Since these are the key elements of good cleanroom designs, a basic knowledge of these will lead to good designs.

This presentation is approved for 1.0 PDH.

Presenter: R. Vijayakumar, Ph.D. – ASHRAE Distinguished Lecturer

Mr. Vijayakumar is the founder and head of AERFIL, a consulting company devoted to providing technical and business solutions and services for the filtration and contamination control industry as well as educational and training support for the industry. His current clients include major filtration companies in China, Brazil and India. With over 30 years' experience in leading filtration and particle test instrument companies to go with his PhD in particle technology, Vijayakumar is a globally recognized expert and mentor in contamination control and filtration sought after by clients worldwide. He is an adviser to NASA for air filtration systems for space habitat.

In keeping with his philosophy that knowledge grows only by sharing, he teaches freely and often wherever someone wants to learn the subject. He has been on the faculty of the short course on air and gas filtration at the University of Minnesota since its inception and is a Distinguished Visiting Professor at the Chinese Academy of Building Research. He has taught courses in cleanroom designs for ASHRAE, and is a Distinguished Lecturer for them lecturing around the world on various aspects of filtration and cleanroom designs. He has served as the President of the IEST, the premiere contamination control organization in the US. Currently, he chairs standards development committees at the ISO and in the US writing standards for high efficiency filters used in cleanrooms, hospitals, and indoor environments.



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

January Meeting Announcement

January 17, 2017

January Chapter Meeting

- DATE:** Tuesday, January 17th, 2017
- TIME:** 5:15PM
- MEETING LOCATION:** Cornell University - Statler Hotel
130 Statler Drive
Ithaca, NY 14853
- SPECIAL EVENT:** Past President's Night
History Night
Membership Promotion Night
- SPEAKER:** R. Vijayakumar, Ph.D. – ASHRAE Distinguished Lecturer
- AGENDA:** 5:15 – 5:45 – Social Time
5:45 – 6:30 – Brief Chapter Meeting and Dinner
6:30 – 7:45 – Presentation followed by Q&A
- MENU:** Buffet Dinner
- REGISTRATION:** Register online at <http://twintiers.ashraechapters.org/> (Under the "Programs" Tab)
\$25.00 Early Registration (By 1/13/2017)
\$30.00 (After 1/13/2017)
- CONTACT:** Petros Papathomopoulos
(Please call, text, or email me at below with any questions or if you get lost)
E: [Email Me!](mailto:petros@twintiers.ashraechapters.org)
C: (607) 725-6900



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

Research Promotion

Dear ASHRAE Twin Tiers Member,

As the RP Chair and a fellow member of the Twin Tiers Chapter, I wanted to personally ask you for your help in supporting ASHRAE Research. ASHRAE's research program, established in 1912, supports 140 research projects with a combined value of more than \$15 million. Research focus includes energy and resource efficiency, indoor environmental quality, design and operation and management tools, alternative technologies and materials and equipment. Through scholarships, grants and awards, the Society supports engineering education for undergraduate students and research projects for graduate engineering students and new post-doctoral scholars.

You can either donate directly with a credit card, see link below:

<https://xp20.ashrae.org/secure/researchpromotion/rp.html>

or send a check to:

ASHRAE Research Promotion
att. Patricia Adelman
1791 Tullie Circle NE
Atlanta, GA 30329

Subject Line of "RP Donation-ASHRAE Twin Tiers"

Again, a personal *Thank You* for the following who have already donated:

Companies:

Air Temp Heating & Air Conditioning Inc
Louis N Picciano & Son Incorporated

Individuals:

Mr Brenton J Ingraham
Mr Kyle Nedlik, BS
Mr Glenn P Roberts
Mr Travis Fisher
Mr Petros Papathomopoulos, PE
Mr Michael T McGinnis
Mr Devin Shapley
Mr Raymond C Millard
Mr Christopher Kopec
Mr Glenn P Roberts

I hope that ASHRAE and I can count on your support this year.

Email me ([Email Me!](#)), or come see me at a Chapter Meeting if you have any questions.

Regards,
Glenn Roberts
Research Promotion Chair

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



**Thank you
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Joe O'Hara
Territory Sales Manager



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

Research Promotion

ASHRAE FACTS & STATS



MISSION: Founded in 1894, the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) is an international nonprofit technical engineering society. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration (HVAC&R) to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

MEMBERSHIP: ASHRAE's technical foundation is built by its 50,000 volunteer members and a professional staff of 105. Across more than 132 countries, ASHRAE's membership in 171 chapters and more than 240 student branches includes consulting engineers (34%), contractors (10%) manufacturers (8%), manufacturing representatives/sales (6%), and architects (5%).

EXPERTISE: ASHRAE's areas of expertise include energy efficiency, indoor air quality, codes and standards, and guidance for a safe environment during extraordinary incidents.

STANDARDS: ASHRAE – with 123 standards and guidelines that establish recommended design and operation practice – is one of only five standards-developing organizations in the U.S. that can self-certify that its standards have followed American National Standards Institute's (ANSI) standards development procedures.

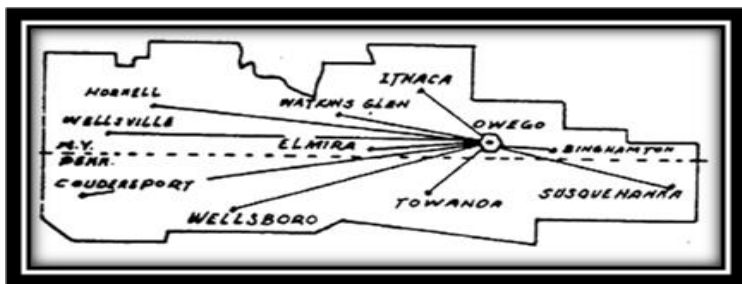
RESEARCH: ASHRAE's research program, established in 1912, supports 140 research projects with a combined value of more than \$15 million. Research focus includes energy and resource efficiency, indoor environmental quality, design and operation and management tools, alternative technologies and materials and equipment. Through scholarships, grants and awards, the Society supports engineering education for undergraduate students and research projects for graduate engineering students and new post-doctoral scholars.

TECHNICAL OVERSIGHT: ASHRAE has some 100 technical committees that drive the ASHRAE research program, develop standards, sponsor the technical program at ASHRAE meetings, develop technical articles, special publications and educational courses and write the *ASHRAE Handbook*.

PUBLICATIONS: ASHRAE produces hundreds of publications, including the *ASHRAE Handbook*, the bible of the HVAC&R industry, books on specialized topics within the field, and various CDs and DVDs. The Society also publishes the peer-reviewed monthly *ASHRAE Journal*, quarterly *High Performing Buildings* and bimonthly *HVAC&R Research*, the most prestigious reporting of archival research in the fields of environmental control for the built environment.

CONTINUING EDUCATION: Through the ASHRAE Learning Institute, ASHRAE offers courses in a variety of formats, including eLearning, professional development seminars (in locations around North America or online), short courses (seminars offered during ASHRAE meetings) and self-directed learning courses (home study courses).

MEETINGS: Visit ASHRAE.org/RP for the most up to date information.



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

Past President's Night

We will honor the chapter's past presidents at the January chapter meeting at the Statler Hotel in Ithaca, NY. As part of our appreciation to those who have served the chapter in this capacity, the chapter will sponsor the cost of their dinner. We also welcome them to share any ASHRAE experiences or memories at the meeting. Individual letters have been mailed to each past president, but please feel free to spread the word if happen to see any of them. Thank you.

~ASHRAE Twin Tiers Chapter Officers





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

Binghamton University's Student Chapter

The students of the Binghamton University Student Branch of ASHRAE would like to thank the Twin Tiers Chapter of ASHRAE as well as everyone who donated and supported our efforts in attending the 2017 ASHRAE Winter Conference. Please keep in mind it is never too late to donate. We are very close to reaching our goal of sending 3 students to the Winter Meeting / AHR Expo. If you or your company would like to make a donation, please visit the link on our chapter website (<http://twintiers.ashraechapters.org/>) or send a check to the Student Branch Advisor:

Jason Gilbert
Physical Facilities Design Team
Binghamton University
4400 Vestal Parkway East (PO Box 6000)
Binghamton, NY 13902-6000

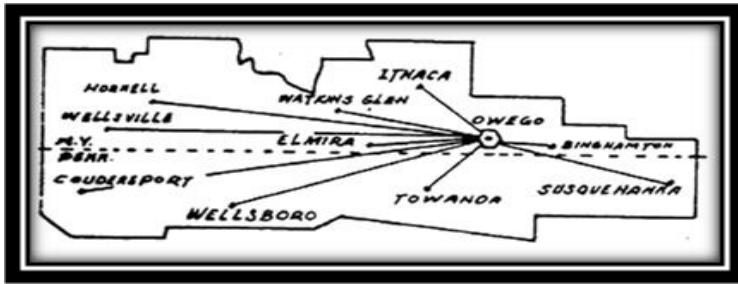
The Binghamton University Student Branch of ASHRAE was founded this year and have been working towards growing our organization to become a more recognized presence within the university as well as introduce our members to the HVAC industry. Attending the AHR Expo, and the Winter Meeting, exposes us to the industry and bringing our experience back to the rest of the members would benefit our organization greatly.

Your contributions have helped us achieve this major milestone and bringing us one step closer in our efforts to provide opportunities for aspiring HVAC&R engineers to network and expand their knowledge of this field. Thank you so much for your help and support.

We would like to give a special thanks to the following supporters:

Twin Tiers Chapter of ASHRAE
Victaulic
BHVfab
R.L. Kistler
Delta Engineers
Meier Supply
Pro Air Plus
Mike Colwell

Sincerely,
Binghamton University, ASHRAE Student Branch Executive Board



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

Twin Tiers Chapter – December BOG Meeting Minutes

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

TWIN TIERS CHAPTER (<http://www.twintiers.ashraechapters.org/>)

Board of Governors Meeting Minutes

Date: Tuesday 12/0/2016 @ 4:00 PM

Location: Holiday Inn, Binghamton, NY

MEETING MINUTES

The meeting was called to order at: **4:04 PM**

- Call to Order and Attendance:
 - Attendance: **Andy Nice, Chris Wolak, Victoria Kramer, Mike McGinnis, Rob VanSkiver, Adam Keller, Devin Shapley, Kyle Nedlik, Jason Gilbert**
- General Announcements – Mike McGinnis (Sitting in for Travis and Petros)
 - Research promotion night!
- Treasurer's Report – Kyle
 - All accounts are in good standing.
 - Audit: 2015-2016 approved.
 - Budget – Good standing, review possible impact of Student Chapter Donation.
 - Thompsons – Still working on online access. Travis still needs to send back paperwork. We need to send a new Corporate Resolution, need to remove Doug if he is on there.
 - Any Receipts or Open Items –
- CTC – Mike/Petros
 - DL Information – Is VJ all set for January meeting? Accommodations, meeting needs? Has the Statler been reserved? PDH?
 - Monthly Meetings –
 - Did we change the format in the Newsletter? The monthly meeting information does not include the location.
 - May Meeting
 - Petros verifying snow melt speaker, discuss good install locations. Other presenter's possibly?
- YEA – Devin/Victoria
 - All set for this evenings Water Street Brewery tour? First round is on ASHRAE Twin Tiers, Kyle Nedlik will be in attendance to purchase first round. Make sure attendees are on attendance sheet. **Brewery tour to be held tonight. Next YEA event to be planned**
 - Any updates for second YEA event? Technical tour/ hockey game?



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

Twin Tiers Chapter– December BOG Meeting Minutes

- Membership Promotion – Chris
 - Updates? **Free meeting cards being given out tonight**
- PAOE Responsibility – Travis Fisher
 - PAOE duties during the year.

Expectations		Current	PAR	Min
Membership Promotion	Chris Wolak	830	800	500
Student Activities	Jason Gilbert	100	500	300
Research Promotion	Glenn Roberts	510	1050	800
Historical	Rick Sanguinito	230	300	100
Chapter Operations	Travis Fisher	595	1200	600
Chapter Technology Transfer	Petros Papathomopoulos	250	1050	450
Grassroots Government Activities	Petros Papathomopoulos	350	650	500

- Student Activities – Jason Gilbert **Raised \$1500**
 - Student Scholarships: Jason/Rick **Need \$1000 students & \$1500 for Jason**
 - Jason would like to reimburse membership fees for students who are successful chapter officers.
 - Determine how much the student chapter has raised so far. President feels based on the student chapters' efforts we should donate whatever the remaining balance is so the student chapter officers can attend the winter conference. **\$2500 to be donated to student chapter. Will vote in Jan.**
 - Member Shirts: Andy – Select new design/color for this year.
 - Shirts will be given to members who are attending the CRC & Members with attend ½ of the Meetings (4 meetings).
 - Current free shirt count: **17**
- Research Promotion – Glenn Roberts
 - PAOE
 - We are currently only \$421 away from earning an extra 50 PAOE points (30% before December 31st) **Kyle to donate \$450 from chapter before 12/31. Will make this up with newsletter advertising.**
 - Discuss options to reach this goal, is it worth pursuing?

- New Business

Symposium to be held at Holiday Inn

Meeting adjourned at **4:50** Motioned: **Devin** Second: **Chris**

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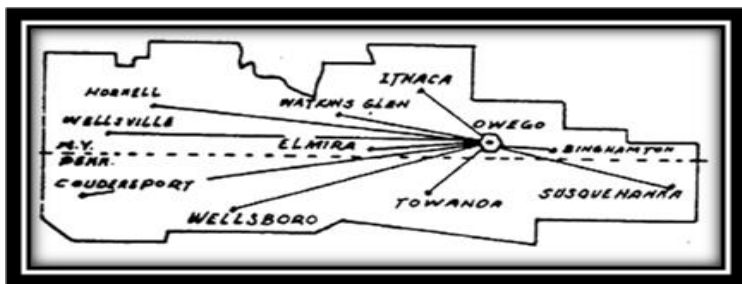
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American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

History Report - December Meeting Summary



By
Rick Sanguinito Historian 2016-2017

DECEMBER Meeting Summary

Date: December 20, 2016

The December 2016 meeting was a presentation by Theodore Firnstein, Business Development Manager, Siemens Industry, Inc. Ted provided education for consulting engineers and other technical professionals on the basic requirements and effects of environmental controls in laboratories. He identify the codes and standards for occupant safety in labs and then compare energy usage in labs and non-lab applications and provide suggestions for reducing energy consumption in

After the meeting was a YEA Tour of the Water St. Brewing Co.

Twin Tiers ASHARE would like to thank those who attend this meeting. If you were unavailable for this meeting, please consider join us for the January meeting. The people who attend included the following:

Theodore Firnstein
Chris Kopec
Emily Ormsby
Glenn Roberts
Kyle Nedlik
Mike Eckhardt
Travis Fisher
JasonGilbert

Andy Nice
Christopher Wolak
Eric LePore
Joe O'Hara
Adam Keller
Mike McGinnis
Victoria Kramer

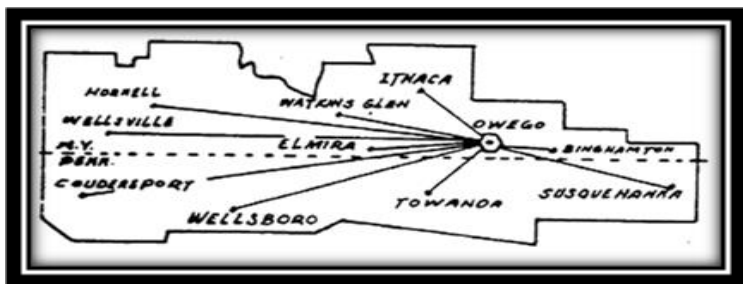
Charles Grochowiak
Devin Shapley
Gary Hilton
Kevin McKeon
Michael Colwell
Rob Van Skiver
Evan Bixby

Also, below is a list of attendees for the December ASHRAE YEA Event at Water St. Brewing:

Kyle Nedlik
Emily Ormsby
Devin Shapley
Chris Wolak

Kevin McKeon
Mike Eckhardt
Chris Kopec
Mike McGinnis

Victoria Kramer
Andy Nice
Glenn Roberts
Charlie Grochowiak



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

History Report - December Meeting Summary



PHOTO 1 - YEA Tour of Water Street Brewery



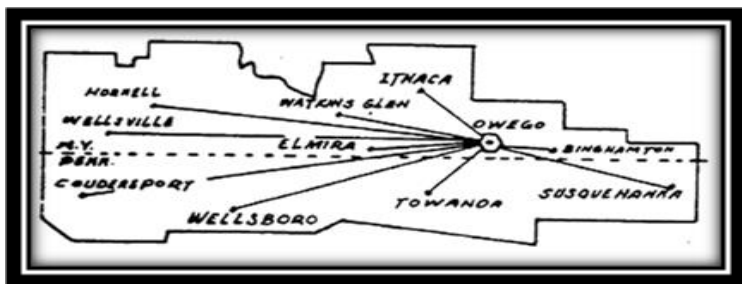
PHOTO 2 - Water Street Brewery



PHOTO 3 - Water Street Tour



PHOTO 4 - Sampling the Product



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

What Were They Thinking???



Opps?

Do you have a funny, “unique”, or just plain horrible installation picture?
Please send them to the Editor at anice@meiersupply.com

*** All names/brands are removed to protect the guilty. ***



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

TRAINING



New York State Professional Engineers **Self Study Ethics PDH Available!**

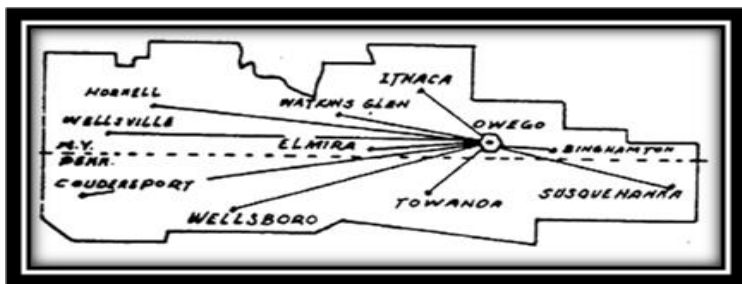
As a licensed professional in New York State, it is your professional responsibility to know the legal and ethical requirements governing the practice of your profession and to be alert to changes in those requirements. The New York State Board for Engineering and Land Surveying, in an effort to help you stay abreast of your professional responsibilities, has developed this short, self-study educational activity in ethics.

This educational activity is based on the New York State Education Law Articles 130 and 145, the Rules of the Board of Regents Parts 1, 3, 17, 18, 28, 29, 31, and the Regulations of the Commissioner of Education Parts 59 and 68. It is strongly recommended that, prior to taking the self test, you review these [foundational materials](http://www.op.nysed.gov/prof/pels/pelaw.htm) (<http://www.op.nysed.gov/prof/pels/pelaw.htm>) on the engineering web site.

Once you have reviewed the foundational materials, proceed to complete the self test below. When you have completed the self test, click the "Get your score" button at the bottom of the page. You should print this screen and save it as evidence of satisfactory completion of this educational activity. A score of 90% or greater will allow you to claim 1 Professional Development Hour (PDH) of educational activity credit in ethics ONCE in each three-year registration period. Retain your printed screen for no less than 6 years from the date of completion.

Take Your PE Ethics Self Test Here!

<http://www.op.nysed.gov/prof/pels/peceselftest.htm>



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

TRAINING



New York State Professional Engineers
Need a few extra PDH?
FREE Online Courses are Available!

www.aecdaily.com

www.ronblank.com

The above websites offer free online courses that are approved for credit!





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

INDUSTRY ARTICLE

Governor Cuomo Presents the 30th Proposal of 2017 State of the State: \$45 Million Revitalization of Syracuse Hancock International Airport

www.governor.ny.gov

By Press Office of NYS Governor Jan. 11, 2017

Governor Awards \$35 Million in Upstate Airport Economic Development and Revitalization Competition Funding to Accelerate Airport's Redesign

Airport Redevelopment Project Will Create More than 850 Construction Jobs

Redesign Includes New Regional Aviation History Museum, Glass Pedestrian Bridge, and a Cold Weather Green Roof

Governor Andrew M. Cuomo today announced that Syracuse Hancock International Airport will receive \$35.8 million in funding to drive forward a \$45.1 million transformation of the airport. This investment will turn an archaic facility into a state-of-the-art transportation hub that meets the needs of the 21st century traveler. The overhaul of the airport's aging infrastructure includes a wide-scale redesign of the grand hall, food, beverage and retail concessions, and the exterior façade. In addition, a new Regional Aviation History Museum, glass pedestrian bridge, and eco-friendly roof will be built along with new flooring and furniture to provide a welcoming atmosphere for travelers from across the world. The project is expected to create more than 850 construction jobs.



"Central New York requires a world-class airport to serve as a front door to the region's array of attractions and keep the region competitive in the 21st century – and that's exactly what this project will accomplish," **Governor Cuomo said.** "This investment takes revitalization efforts to new heights by transforming the Syracuse Hancock International Airport to improve travel in and out of Central New York. Through the Upstate Airport Competition, we are bringing a state-of-the-art flying experience in cities across the state, attracting more businesses with new economic opportunities, and laying the groundwork for continued growth for decades to come."

To remain competitive in today's global economy, New York must reimagine and rebuild the gateways to this State. Governor Cuomo's announcement today was part of the second round of the \$200 million Upstate Airport Economic Development and Revitalization Competition, which first launched last year.



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

INDUSTRY ARTICLE

Governor Cuomo Presents the 30th Proposal of 2017 State of the State: \$45 Million Revitalization of Syracuse Hancock International Airport (Cont.)

Transforming Syracuse Hancock International Airport

The Syracuse Hancock International Airport supports more than 7,500 jobs and generates nearly \$597 million in economic impact throughout Central New York. This latest investment will increase economic opportunity, attract new businesses and visitors, and improve the overall passenger experience. The remaining funding for the project will be provided by the airport, county and federal government. The project will renovate, rehabilitate and revitalize the Syracuse Hancock International Airport's facilities and infrastructure, transforming it into a world-class passenger transit center.

The specifics of the redesign plan announced today are outlined below:

- A wide-scale redesign of the terminal building will offer travelers a more spacious airport that features new flooring and furniture.
- A new Regional Aviation History Museum will be located in the transit center, designed with assistance from the Onondaga Historical Association, to feature educational displays, a visual timeline of significant events, and an exhibit area to showcase historic people from airport's past.
- A new exterior façade will provide natural light to the passenger drop-off area for the first time in decades and will feature an eco-friendly green roof canopy.
- Above the passenger drop-off area, a new glass pedestrian bridge will provide passengers using mobile airline tickets a more efficient route, connecting them directly to flights by skipping the ticketing lines.
- The exterior of the airport will feature perforated Corten Steel panels to withstand inclement weather, energy efficient windows, and a new rainwater collection system.
- The airport will also be outfitted with energy efficient lighting and a cold weather green roof to make better use of space, while promoting eco-friendly practices.



The construction projects related to this revitalization are expected to create a total of 869 new jobs in Central New York. The new Syracuse Hancock International Airport is expected to be completed by 2019.

"Governor Cuomo Presents the 30th Proposal of 2017 State of the State: \$45 Million Revitalization of Syracuse Hancock International Airport" New York State Governor Andrew M. Cuomo. Press Office of the New York State Governor, 11 Jan. 2017. Web. 11 Jan. 2017. <<https://www.governor.ny.gov/news/governor-cuomo-presents-30th-proposal-2017-state-state-45-million-revitalization-syracuse>>.



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

Twin Tiers Chapter– Employment Opportunities



Senior Mechanical Engineer

Engineers thrive on solving problems by putting their logic and creativity together. They are able to invent, explore, and question to enhance the areas around us. IBI Group engineers work in multiple disciplines and collaborate on larger initiatives.

IBI Group's Binghamton, New York office is searching for a Senior Mechanical Engineer to join its growing team.

Are you looking for a challenging opportunity that can move your career to the next level?

Then come discover what IBI has to offer.

IBI Group offers you a career you can Define...Discover It!

Responsibilities:

- Responsible for the technical and design development for assigned projects.
- Functions in the role of project leader and handles project management tasks and supervises the mechanical design and technical aspects.
- Produces design work according to established standards, methods, and procedures of the office.
- Coordinates and develops the layout, design, drafting, and specifications produced by architectural and engineering staff members who are part of the project team.
- Develops project cost estimates.
- Supervises technical staff and provides design guidance.
- Supervises the preparation and checks the accuracy of contract documents.
- Incorporates applicable codes, construction techniques, and sequences in various projects including all aspects of cross disciplines.
- Conducts site observations as required to perform the design.
- Conducts site observations of mechanical systems during construction operations. Performs other associated construction phase tasks.

Qualifications:

- Experience in designing HVAC systems for educational, commercial, institutional, and industrial facilities
- In addition to HVAC system design experience; experience with Plumbing design and Fire Protection design strongly desired.
- At least 5 years design experience
- Bachelor's degree in Mechanical Engineering
- EIT required; Registration as a Professional Engineer in New York State strongly desired
- Working knowledge of AutoCAD, BIM/Revit
- Effective communication (verbal and written) in English
- Strong team player
- Highly proactive and detail oriented
- LEED certification is a strong asset

We are a global team of dedicated and experienced architects, engineers, planners, designers and technology professionals who share a common desire – to help our clients create livable, sustainable, and advanced urban environments.

From high-rises to industrial buildings, schools to state-of-the-art hospitals, transit stations to highways, airports to toll systems, bike lanes to parks, we design every aspect of a truly integrated city for people to live, work, and play.

Our collaborative and combined approach focuses not only on creating the best solutions today, but also determining the right solutions for tomorrow.

We believe cities in the future must be designed with intelligent systems, sustainable buildings, efficient infrastructure, and a human touch.

At IBI, we're defining the cities of tomorrow.

Applicants for U.S. based positions with IBI Group must be legally authorized to work in the United States. Verification of employment eligibility will be required at the time of hire. Visa sponsorship is not available for this position.

IBI Group is an Equal Employment Opportunity/Affirmative Action Employer and maintains a Drug-Free Workplace.

EOE-M/F/Vet/Disability

Contact: Linda Gauld linda.gauld@ibigroup.com (+1 519 472 7328 ext 261)



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

Twin Tiers Chapter– Employment Opportunities



Design Your Career

Senior Mechanical Engineer – Buildings

Your Opportunity:

Our Buildings Engineering group specializes in the design and development processes unique to buildings. Working closely with our clients, our dedicated professionals help to establish and understand the needs of a range of building projects. This is where great ideas and rewarding careers are built. For both public and private sector clients, we provide unique plan checking capabilities as well as energy engineering and performance engineering services, covering each of the major engineering disciplines- structural, mechanical, and electrical. In addition, we bring together innovative and functional design solutions for companies involved in the discovery, research and development, and commercial scale manufacturing of pharmaceuticals, biotechnology, and medical device products. Focused on providing cost-effective solutions to engineering challenges, we are involved in a diverse range of projects from the initial planning stages to design, construction, and commissioning. Our structure cultivates career growth and provides opportunities as unique as you are.

Your Duties:

- Duties will include but are not limited to preparation of project proposals and resulting contracts, project implementation plans, resource planning, quality control and design review, project team review and coordination, client, and financial management.
- May assist as mechanical engineering lead overseeing the engineering & design of plumbing / fire protection / HVAC and other mechanical systems for new and renovated buildings.
- Mechanical engineering - actual designs including the completion of code reviews, preparation of the basis of design, system calculations, mark-up of drawings, specification preparation, field investigations, construction estimating and site inspections and other such design as required to execute the mechanical construction for new or renovated buildings.
- May perform project manager duties as needed.
- Some travel to site locations or other Stantec offices may be required.

Your Capabilities and Credentials:

The successful candidate will possess:

- Requires a B.Sc. Mechanical Engineer
- NYS PE desired, registration in other states a plus
- 7+ years' experience required
- Must have strong Mechanical Engineering skills in Plumbing, Fire Protection, HVAC, and related mechanical systems
- Prior management experience is a plus
- Prior consulting engineering experience is required
- Experience using Autocad, Revit, Trane Trace or Equest is a plus
- Excellent verbal and written communication skills
- Excellent interpersonal skills with team members and clients

We put people first, and it shows. We're proud to be one of New York's Best Places to Work, as named by The Business Council of New York and NYS-SHRM.

Please apply online directly at:

- (Rochester) <https://jobs-stantec.icims.com/jobs/25804/senior-mechanical-engineer---buildings/job>
- (Endicott) <https://jobs-stantec.icims.com/jobs/25927/senior-mechanical-engineer---buildings/job>



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

Twin Tiers Chapter– Employment Opportunities

MECHANICAL ENGINEER

CORNING

Job Number: 179603

Location: Corning, NY

Are you interested in “Life Changing Innovation”? As with Thomas Edison, we have a history of working with the world’s greatest innovators. We solve our customers’ most complex problems that others can’t or won’t. Collaboration, Innovative Spirit and Career Development are just a few of the reasons world class professionals choose Corning Incorporated for a career. We are headquartered in Corning - a vibrant city in Upstate, NY where residents enjoy the benefits of a rich arts and culture scene, one of the world’s fastest-growing wine regions and a family friendly area with affordable homes and quality education.

Corning is the world leader in specialty glass and ceramics, creating and manufacturing keystone components that enable high-technology systems.

Corning’s history is filled with breakthrough technologies that have played an important role in the way the world works. We thrive on solving difficult, commercially relevant problems through an innovative and collaborative research and development process. Corning succeeds through sustained investment in R&D, more than 160 years of materials science and process engineering knowledge, and a distinctive collaborative culture.

Scope of Position:

- Provide HVAC engineering support within the Business Services Division (BSD) Facility Operations Engineering Department at Sullivan Park (SP).
- Assume a primary role of “HVAC Engineer” for the Facilities Operations organization.
- Additionally, support and lead various engineering projects within our organization.
- Participate on and/or lead 6-Sigma DMAIC or DESGN Performance Excellence projects.
- Identify improvement opportunities, justify, and lead implementation of those improvements.
- Complete process documentation as required.

Day to Day Responsibilities:

- Provide HVAC engineering support for maintenance and project support.
- Troubleshoot facility equipment including: Air Handling Units, Make-up Air Units, AC units, Exhaust fans (centrifugal/DEF), return air fans, HW packaged boiler systems and piping distribution, central chilled water system and piping distribution.
- Develop preventative maintenance programs for HVAC systems
- Identify HVAC training needs for Maintenance Group as required.
- Provide energy management/reduction support.
- Audit, revise, create process documentation for HVAC systems
- Provide occasional after hours technical support, ie. On-call or weekend support.



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

Twin Tiers Chapter– Employment Opportunities

MECHANICAL ENGINEER (Cont.)

CORNING

Travel Requirements: Minimal

Hours of work/work schedule/flex-time:

- Standard 40 hour work week, plus occasional weekend project work and on-call coverage – (1) week per (2) month period.

Education and Experience:

- Min. 4 yr Bachelors of Science Degree
- Min. 4 years HVAC experience in Facilities Operations/HVAC Industry

Qualifications:

- HVAC Equipment experience – must be highly skilled in HVAC system design and operation.
- Perform engineering calculations of building heating/cooling loads, energy profiles, equipment selections, sizing of duct-work/piping distribution systems.
- Working knowledge of Facilities equipment and associated Building Control Management System operation.
- Hands-on troubleshooting experience and excellent troubleshooting skills and ability.
- Must have experience leading significant HVAC projects.
- Good communication and interpersonal skills, capable of working with all payrolls
- Good planning and organizational skills, capable of handling multiple tasks and priorities
- Self-starter, results oriented, requiring minimal supervision
- Basic CAD skills (preferably ACAD)
- Basic MS Office skills (MS Word, Excel, Power Point, MS Outlook w/ scheduling capability)
- Prior experience in either installation, system design, or maintenance of building infrastructure equipment.
- Process Control and Discipline knowledge and application experience, SPC understanding, Data Analysis experience using various statistical tools (ie: SPC XL, DOE Pro, Minitab, other)
- Understanding of quality systems (ie: Performance Excellence 6-Sigma, KT, Manufacturing Excellence, ISO)
- Additional computer skills (VISIO, Access, Tabware, Peoplesoft, ACAD and Revit BIM)
- Experience writing Process documentation (SOP's, Machine Specs, O&M's)
- Experience working in a Union environment
- Experience working in a Manufacturing environment.

EOE/AA including Veterans and Disabled.

**IF YOU ARE INTERESTED IN THIS OPPORTUNITY, PLEASE FEEL FREE TO CONTACT DAVID WATKINS AT
716-688-6751 OR WATKINS@CORNING.COM**



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

Twin Tiers Chapter– Employment Opportunities

LABELLA

Associates

Engineering
Architecture
Environmental
Planning

SENIOR MECHANICAL ENGINEER – PROJECT MANAGER

LaBella Associates, D.P.C. is one of the area's Top 2015 Workplaces. We are headquartered in Rochester's High Falls District with offices across New York and in Maine, North Carolina, Ohio, Pennsylvania, and an office in Madrid, Spain. We are a multi-disciplined architectural and engineering firm dedicated to client satisfaction through teamwork, respect, and trust.

We are currently seeking a Senior Mechanical Engineer to lead mechanical project teams in our Elmira Heights, NY office. Project work will involve clients in multiple Market Sectors. This position will report to the Mechanical Engineering Discipline Leader.

Responsibilities:

- Work closely with the mechanical engineering staff to develop concepts, strategies, construction documents and engineering reports for new building and renovation projects.
- Assist the energy group in conducting Energy Audits for Municipal, Commercial, and Industrial clients.
- Recognize energy reduction potential in buildings through the use of high efficiency equipment.
- Mentoring, guidance and performance appraisal for the mechanical engineering team.
- Client and Business Development.
- Proposal writing to initiate new business.
- Work with Commissioning Teams as necessary to provide reinforcement to this market focus.

The ideal candidate will possess:

- Bachelor's degree in Mechanical Engineering.
- Minimum 10 years engineering experience with a professional A/E services firm.
- Strong writing, organizational and communications skills
- Ability to work under pressure, and multi-task efficiently
- A New York PE license is mandatory.
- Familiarity with NYSERDA and the related incentive programs.

Resumes should be accompanied by a cover letter demonstrating how your past experience qualifies you for this position. All inquiries will be kept confidential.

LaBella offers a strong benefits package including health insurance, dental insurance, professional development, paid time off, 401k and much more.

<https://home.eease.com/recruit/?id=14921471>



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

Twin Tiers Chapter– Employment Opportunities

LaBella

Associates

Engineering
Architecture
Environmental
Planning

Mechanical Engineer

LaBella Associates, D.P.C. is one of the area's Top 2015 Workplaces. We are headquartered in Rochester's High Falls District with offices across New York and in Maine, North Carolina, Ohio, Pennsylvania, and an office in Madrid, Spain. We are a multi-disciplined architectural and engineering firm dedicated to client satisfaction through teamwork, respect, and trust.

We are currently seeking a Mechanical Engineer with a strong focus and background in Building Projects to work in our Elmira Heights, NY Office. This position will work closely with the mechanical engineering staff to develop concepts, strategies, designs, drawings, specifications and reports.

Individual must be able to work independently, as well as part of multi-discipline teams producing mechanical engineering documents. Individual must have well rounded experience in HVAC design. Energy conservation and commissioning experience is a plus. A Bachelor's degree and minimum of 4 years of experience working at an A/E consulting firm preferred.

Resumes should be accompanied by a cover letter demonstrating how your past experience qualifies you for this position. All inquiries will be kept confidential.

LaBella offers a strong benefits package including health insurance, dental insurance, professional development, paid time off, 401k and much more.

<https://home.eease.com/recruit/?id=14921441>



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

Twin Tiers Chapter– Business Cards Advertisement for Newsletter

ADVERTISE your business card:

- Current business card adds will expire at the end of this year, December 31, 2017.

- New subscription will run the calendar year 2017.
- Cost to advertise for the 2017 year is \$50.
- Sign up now for the 2017 year On Pay Pal <http://twintiers.ashraechapters.org>

Or Send Check and copy of business card to Twin Tier News Letter Editor:

Meier Supply Co.
Attn: Andrew Nice
275 Broome Corporate Parkway
Conklin, NY 13748

- Email a copy of your business card to Twin Tier Newsletter Editor Email.

From Web site please visit: <http://twintiers.ashraechapters.org>

Go to the News Letter tab, and place your order to advertise your business card.

Business Card Advertising 2017

The Twin Tiers Chapter of ASHRAE can accept business card advertising with the following provisions:

- The company must be associated with HVAC&R technology.
- The company must be a local service provider, a local manufacturer, or a manufacturer's representative serving the area.

If you aren't sure, just ask.

We are now accepting business card advertisements for the newsletters that will be published in 2017. This is a great opportunity to get your name and business in front of the over 200 subscribers to our chapter newsletter. The price for the newsletter only is \$50 for the entire 2017 year.

Business card ads can be placed using a scanned electronic copy of your business card, or you can mail your card to me (please no staples or paper clips).

Questions? Call or email
Thank you for your support!
Andrew Nice

Twin Tier Newsletter Editor Email

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



Comments? Suggestions?

Andrew Nice, Editor
c/o Meier Supply Co.
275 Broome Corporate Parkway, Conklin, NY 13748
anice@meiersupply.com

We welcome your feedback!



ASHRAE Mission Statement

ASHRAE will advance the arts and sciences of heating, ventilation, air conditioning, refrigerating and related human factors to serve the evolving needs of the public and ASHRAE members.

Ethics Requirement for PE

PE's in NYS will be required to have one hour of Ethics within their 36 hours of continuing education for registration periods beginning August 1, 2011 and after.

ASHRAE Vision Statement

ASHRAE will be the global leader in the arts and sciences of heating, ventilation, and air conditioning.

ASHRAE will be foremost authoritative, timely, and responsive source of technical and education information, standards and guidelines.

ASHRAE will be the primary provider of opportunity for professional growth, recognizing and adapting to changing demographics, and embracing diversity.

***Advancing HVAC&R to
serve humanity and pro-
mote a sustainable world"***

Twin Tiers Chapter Mailing Address:
Twin Tiers ASHRAE Chapter
P.O. Box 6706
Ithaca, NY 14851-6706