



# Twin Tiers Chapter

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 2018-2019



Shaping Tomorrow's  
Built Environment Today

**April Meeting**  
April 16, 2019

## **ANNUAL SPRING SYMPOSIUM & PROFESSIONAL DEVELOPMENT SEMINAR**

**Holiday Inn - Binghamton**  
**8:00AM - 5:00PM**

**Earn up to 7.5 PDH!**

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](#)

### Inside this issue:

President's Corner	2
PAOE	3
Chapter Events Calendar	4
Spring Symposium Details	13
Training Events	18
ASHRAE Research Project	23
Industry Article	24
Employment Opportunities	27



**Corner**

**President's**

Dear Twin Tiers Chapter Members,

Thank you to everyone who attended the March meeting at the Cornell University Hydroelectric Plant. A special thanks to our speaker and tour guide, Frank Perry, who gave a great overview of the plant and its history dating back to the early days of Cornell. As always, the Statler provided a great meal, which was needed after all the walking that we did!

All couple of reminders for upcoming chapter meetings and events:

- The Spring Symposium will be April 16<sup>th</sup> at the Holiday Inn Arena Hotel in downtown Binghamton. Devin Shapley is organizing the event and can answer any specific questions and booking the speakers.
- The last official chapter meeting will be at Ommegang Brewery on May 21<sup>st</sup>. The chapter will be providing a bus as part of the registration fee. The meeting is being sponsored by Meier Supply.
- Year End Golf Outing and Clam Bake will be held on June 18<sup>th</sup>. Please let Travis Fisher or I know if you are interested in donating door prizes or being involved in organizing.

As the chapter year starts to draw to a close, please consider becoming involved with the chapter for next year. Our ASHRAE calendar year starts in July. Kyle Nedlik is the President-Elect and I know that he will be looking for help during his presidency. Becoming involved in the local chapter is a great way to network with engineers/contractors/owners/ reps who you may do business with over the course of your career. Please feel free to reach out to Kyle or I with any interest or questions.

Thanks,  
Mike McGinnis  
Twin Tiers Chapter President

**Chapter President**



Michael McGinnis  
(607) 727-3168  
[Email Me!](#)

**2018-2019  
Chapter Officers**

**President-Elect**

Kyle Nedlik  
(607) 321-6100  
[Email Me!](#)



**Vice President**

Devin Shapley  
(607) 723-9421  
[Email Me!](#)



**Treasurer**

Adam Keller  
(315) 487-8791  
[Email Me!](#)



**Secretary**

Matthew Lloyd  
(607) 239-3956  
[Email Me!](#)



**Newsletter Disclaimer Statement**

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## Twin Tiers Chapter

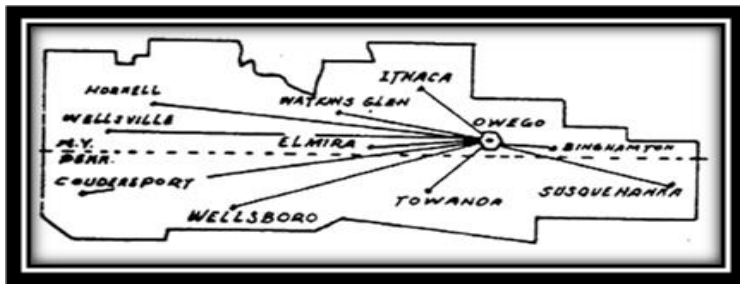
### Presidential Award of Excellence (PAOE)

	Chapter Operations	Chapter Technology Transfer	Electronic Communications	Grassroots Government Activities	Historical	Membership Promotion	Research Promotion	Student Activities
MIN/ PAR	600/1200	450/1050	250/500	500/650	100/300	500/800	800/1050	300/500
Current	965	700	580	350	785	850	830	50

POINTS CURRENT AS OF 4/12/2019

### Chapter Committee Chairs

<b>Technology Transfer</b> Kyle Nedlik (607) 321-6100 <a href="#">Email Me!</a>	<b>Government Activities</b> Adam Keller (315) 487-8791 <a href="#">Email Me!</a>	<b>Refrigeration</b> Rob VanSkiver (585) 591-8168 <a href="#">Email Me!</a>	<b>Golf &amp; Clambake Outing</b> Michael McGinnis (607) 727-3168 <a href="#">Email Me!</a>
<b>Membership Promotion</b> Chris Wolak (484) 350-1954 <a href="#">Email Me!</a>	<b>Nominating</b> Andrew Nice 607-760-5960 <a href="#">Email Me!</a>	<b>Meeting Reception</b> Matthew Lloyd 607) 239-3956 <a href="#">Email Me!</a>	<b>H.O. Ward Scholarship</b> Richard Sanguinito (607) 231-6605 <a href="#">Email Me!</a>
<b>Research Promotion</b> Glenn Roberts (315) 234-1527 <a href="#">Email Me!</a>	<b>Student Activities</b> Jason Gilbert (607) 777-2240 <a href="#">Email Me!</a>	<b>Membership Directory</b> Chris Wolak (484) 350-1954 <a href="#">Email Me!</a>	<b>Albern Education Fund</b> Jason Gilbert (607) 777-2240 <a href="#">Email Me!</a>
<b>Honors &amp; Awards</b> Michael McGinnis (607) 727-3168 <a href="#">Email Me!</a>	<b>Historian</b> Richard Sanguinito (607) 231-6605 <a href="#">Email Me!</a>	<b>Symposium– Fall/Spring</b> Kyle Nedlik (607) 321-6100 <a href="#">Email Me!</a>	<b>Auditing</b> Rick Sanguinito & Andrew Nice (607) 231-6605 / 607-760-5960 <a href="#">Email Me!</a>
<b>Webmaster</b> Petros Papathomopoulos (607) 723-9421 <a href="#">Email Me!</a>	<b>Newsletter Editor</b> Andrew Nice 607-760-5960 <a href="#">Email Me!</a>	<b>YEA: Young Engineers</b> Victoria Kramer (607) 321-6127 <a href="#">Email Me!</a>	<b>Publicity</b> Andrew Nice 607-760-5960 <a href="#">Email Me!</a>



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## Twin Tiers Chapter– Monthly Meeting Information

### *2018-2019 Meeting Dates:*

Date:	Speaker	Tech Session Topic, Tour or Meeting Info	Attendance:
18-Sep	Brendan Harder, Beer Tree Brewing Co.	TOUR: Beer Tree Brewing Co. tour of their facilities.	-
16-Oct	Multiple/TBD	Fall Engineering Symposium—Daytime	-
13-Nov	Kevin Diehl, Yaskawa America	VFD Drive Basics & Drive Harmonic Effects <i>Research Promotion Night &amp; YEA Night (YEA Event to Follow)</i>	-
18-Dec	Paul Torcellini, PhD, PE, ASHRAE DL	Creating a World of Zero Energy Buildings <i>Past President's Night &amp; History Night</i>	-
15-Jan	Dennis Hoover, Alvogen	TOUR: Recent Production Suite Fit-Outs, Pharma Technologies <i>Membership Promotion Night</i>	-
19-Feb	Jason Gilbert, Binghamton University Mike Eckhardt - McFarland Johnson	TOUR: Binghamton University School of Pharmacy & Pharmaceutical Sciences Tour <i>Student Night</i>	-
19-Mar	Frank Perry, Cornell University	TOUR: Cornell University Hydroelectric Plant Tour <i>Student Night</i>	-
16-Apr	Multiple/TBD	Spring Engineering Symposium—Daytime	-
21-May	Ommegang Brewery & Principle Design	Ommegang Brewery Tour <i>Donor Recognition Night</i>	-
18-Jun	None	Golf Tournament	-

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

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**Thank you  
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Team Leader



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**Ray Spears**  
Controls Account Manager

**Shey Doane**  
Sales Engineer



**Trane Commercial Systems**

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## History Report - March Meeting



## March Meeting Summary

Date: March 19, 2019

The group began at Cornell's Martin Y. Tang Welcome Center, and embarked on a walking tour of the university's hydroelectric facilities. The group walked along the penstock route down to the generation facility that houses the plant's electricity generating turbines. Following the tour, the group convened at the Statler hotel for the meeting/dinner and presentation portion of the meeting, where Frank Perry of Cornell's energy group gave a presentation on the plant's history and expanded on the technical aspects involved with operating and fine tuning the plant.

Eric LePore, P.E., was also awarded a first place ASHRAE Technology Award at the meeting for his work on the new Koffman Southern Tier Incubator.



**Photo 1:** Award – Eric LePore, P.E. receives his first place ASHRAE Technology Award



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## History Report - March Meeting



**Photo 2:** Cornell University Hydro-Electric Plant Interior



**Photo 3:** Cornell University Hydro-Electric Plant Beebe Lake

**Photo 4:** Cornell University Hydro-Electric Plant Map



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## Research Promotion Message

### Chapter Research Promotion

Dear ASHRAE Twin Tiers Member or Research Promotion (RP) Supporter,

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, 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.

For Research Information please see the following site:

<https://www.ashrae.org/standards-research-technology/ashrae-rp>

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

**Make check payable to "RP Donation-ASHRAE Twin Tiers"**

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

Matthew Hawley  
Kyle Nedlik  
Devin Shapley  
Raymond Millard  
Michael McGinnis

Petros Papathomopoulos  
Adam Keller  
Arthur Monaco  
Michael Colwell

Glenn Roberts  
BHV Sheet Metal Fabricators  
Mark Mattina  
Norman Scott

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

Email me, or come see me at a Chapter Meeting if you have any questions.

Glenn Roberts  
Twin Tiers Research Promotion Chair  
[Email Me](#)





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## CANSTRUCTION OF THE SOUTHERN TIER



Canstruction is a structure building competition where teams compete to design and build giant structures made entirely from canned foods, which are then donated to the area's food banks for distribution to those in need. The structures are up for a total of 8 days, and each structure has a sign that describes the structure and its meaning and purpose. This year's competition was held at the Oakdale Mall in Johnson City, NY, which is located in the center of the ASHRAE Twin Tier's Chapter footprint. The Oakdale Mall sees thousands of patrons walk through the mall each week, each of which are exposed to the structures and to the organizations that build them during the time that the structures are up for viewing.

The structure that our Chapter decided to build was a light bulb, titled "Illuminating the Future with Energy Efficiency". The title of our structure, accompanied with the description of the structure included on our sign, highlights ASHRAE's commitment to continued advancement in energy efficiency, and gave noteworthy amounts of exposure to the general public about ASHRAE's 90.1 standards and the continuous improvements that continue to be made to the standards every third year (see photo of ASHRAE sign below). Our participation in the event also allowed members of our chapter to collaborate with one another and design and build something together to support a noble cause, while subsequently creating something that exposed the general public to ASHRAE Standard 90.1 and its importance in ongoing efficient building design practices.

design-build  
competition

all proceeds benefit



### ASHRAE Twin Tiers Chapter Illuminating the Future with Energy Efficiency

ASHRAE has literally written the book on energy efficiency for commercial buildings. ANSI/ASHRAE/IES Standard 90.1: Energy Standard for Buildings Except Low-Rise Residential Buildings is an American National Standard published by ASHRAE and jointly sponsored by the IES that provides minimum requirements for energy efficient designs for buildings, except for low-rise residential buildings (i.e. single-family homes, multi-family buildings less than four stories high, mobile homes and modular homes). The original standard, ASHRAE 90, was published in 1975. There have been multiple editions to it since.

In 1999, the ASHRAE Board of Directors voted to place the standard on continuous maintenance, based on rapid changes in energy technology and energy prices. This allows it to be updated multiple times in a year. The standard was renamed ASHRAE 90.1 in 2001.[1] It has since been updated in 2004, 2007, 2010, 2013 and 2016 to reflect newer and more efficient technologies.

**Team Participants:**  
Jason Gilbert  
Petros Papathomopoulos

**Team Sponsors:**  
ASHRAE, Twin Tiers Chapter of ASHRAE



Number of Cans  
**1600**

#### Shopping List

Canned Corn  
Tuna  
Vienne Sausages

#### Visit

[www.FoodBankST.org](http://www.FoodBankST.org)  
to vote for your  
favorite structure!





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## CANSTRUCTION OF THE SOUTHERN TIER

ONE AWARD SHOW AWARD

CONGRATULATIONS TO  
PETROS PAPATHOMOPOULOS!!!

**canstruction® 2019**

**One Man Show Award  
ASHRAE**

thanks for your support of



**food & bank**  
of the Southern Tier



Sponsored by Broome

Signature

Date





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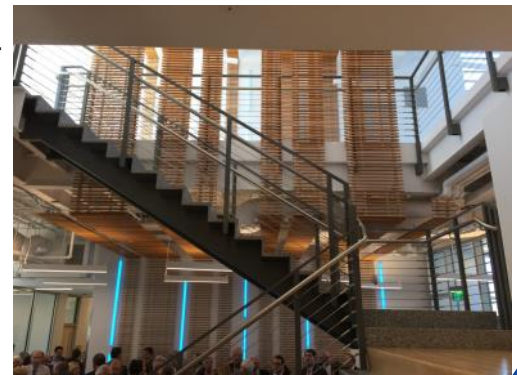
## ASHRAE TECHNOLOGY AWARD

**CONGRATULATIONS Eric LePore!!!**  
**ASHRAE TECHNOLOGY AWARD**



The ASHRAE Technology Awards recognize outstanding achievements by ASHRAE members who have successfully applied innovative building designs. Their designs incorporate ASHRAE standards for effective energy management and indoor air quality and serve to communicate innovative systems design. Winning projects are selected from entries earning regional awards.

**David J. Meyer, P.E., Jaimeeganleong Wilson, Ph.D., P.E., BEMP, BEAP, Eric J. LePore, P.E. and Alfred Rodgers, CPMP, new other institutional buildings category, Koffman Southern Tier Incubator, Binghamton, N.Y. The building is owned by Koffman Southern Tier Incubator.**



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**Thank you  
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## 2018 Business Cards



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**Joe O'Hara, NCT**  
Branch Sales Manager



**Richard R. Sanguinito, PE, LEED AP**  
*Vice President/Director of MEP Services*

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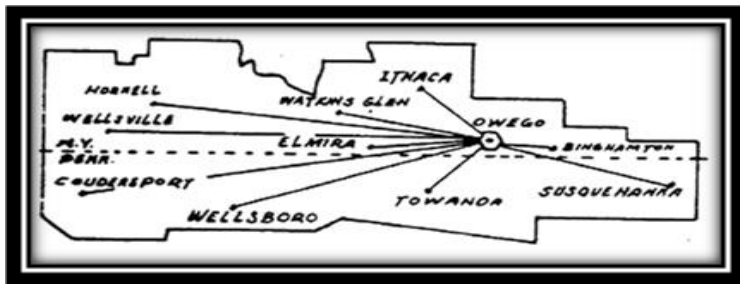
*Demand a Higher Standard<sup>SM</sup>*

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## Annual Spring Symposium and Professional Development Seminar

Tuesday, April 16, 2019, 8:30 A.M. – 5:00 P.M.

Holiday Inn Binghamton - Downtown, 2-8 Hawley St, Binghamton, New York

### EARN UP TO 7.5 Professional DEVELOPMENT HOURS!

The ASHRAE Twin Tiers Chapter 2019 Spring Symposium provides a local opportunity to bring together practicing professionals, engineers, academics, contractors, owners and others to discuss with respected experts issues and challenges that our industry faces. This year's symposium offers attendees opportunities to review some of the industry's latest energy efficient technology as well as techniques/methods that could employ them.

#### SCHEDULE OF EVENTS

8:00-8:30 A.M. Registration - Foyer  
Includes: Coffee, Muffins, & Fresh Fruit

8:30-10:00 A.M.

Binghamton Room

Endicott Room

"Advanced Building Energy Modeling for Early Design Support"  
1.5 PDH  
Daniel Nall P.E., ASHRAE DL

"Steam and Condensate Systems"  
1.5 PDH  
Christopher Bove & Matt Davidson

10:00-10:20 A.M. Morning Break – Foyer

10:20-11:50 A.M.

Binghamton Room

Endicott Room

"Evolution and Emerging Technologies of Fire Alarm Systems"  
1.5 PDH  
John Sendrowski, Johnson Controls

"Pressure Control Solutions for Potable Water"  
1.5 PDH  
Steven Wortman, Victaulic

12:00-1:40 P.M. Lunch & Presentation Followed by the Monthly Chapter Meeting

Lecturer: Stephanie Taylor MD, ASHRAE DL

Presentation: "The Healing Power of Indoor Air"

1:40-3:10 P.M.

Binghamton Room

Endicott Room

"Vibration Isolation of HVAC Systems"  
1.5 PDH  
James Tauby P.E., ASHRAE DL

"A Holistic Look at Condensing Systems and Optimization"  
1.5 PDH  
Jacob Hall, ProAir Plus

3:10-3:30 P.M. Afternoon Break – Foyer  
Includes: Soft Drinks & Snacks

3:30-5:00 P.M.

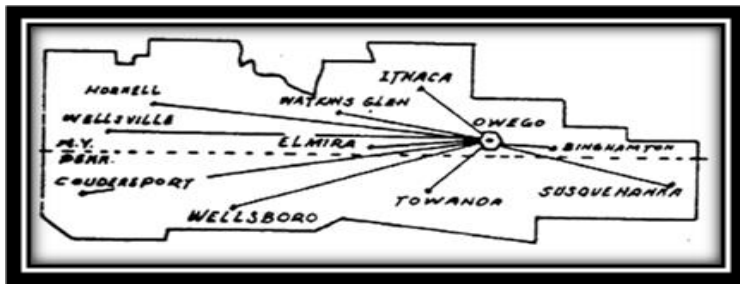
Binghamton Room

Endicott Room

"Laboratory Air Flow Control Devices"  
1.5 PDH  
Rob VanSkiver, H&V Sales

"Free-Cooling and Heat Recovery Opportunities"  
1.5 PDH  
Michael Collins & Gian Marc Casolini

Please Note: The ASHRAE Twin Tiers Chapter reserves the right to change the schedule, speakers and presentations without notice.



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

## Twin Tiers Chapter - March BOG Meeting Minutes



Board of Governors Meeting  
Date: March 19, 2019  
Location: Cornell Tang Welcome Center

### Agenda

Meeting was called to order at: 4:10 P.M.

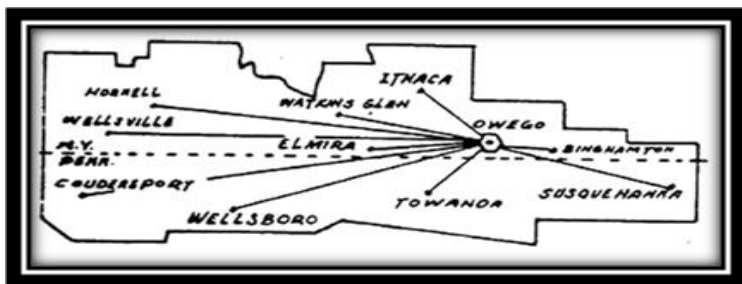
- Call to Order and Attendance:
  - Attended: Adam, Mike, Travis, Matt, Kyle, Victoria, Chris, Rob, Jason
  - Call-in: Glenn
- Item to Discuss:
  - Vote to approve the February Meeting Minutes  
To be approved via email vote
  - Review the calendar of events
    - April – Symposium Status  
Devin is looking for a lunch speaker to complete  
“Save the date” has been sent out  
Schedule should be complete by the end of the week  
Need to set up registration link on website (Petros)
    - May – Ommegang  
Meeting and bus are set up to leave from BU
    - June – Golf and Clam Bake  
Set up for June 18 at Links at Hiawatha
  - Construction Review  
Thanks to Petros for completing; need to make sure there is enough interest in helping with construction next year before registering
  - RP for March Madness  
Glenn has bracket set up on Yahoo – Mike will send out link to participate  
Brackets will be \$20 each  
Payouts will be:
    - ASHRAE Twin Tiers Chapter (50%)
    - First Place (35%)
    - Second Place (10%)
    - Third place (5%)
  - Chapter Bylaws update
  - RP Chair for 2019-2020 year  
Looking for volunteers to take over RP chair
    - Consider system where past president becomes RP chair
    - Glenn open to being chair for one more year if needed
    - Need to submit responsibilities to ASHRAE by April 1<sup>st</sup> for points
  - Secretary for 2019-2020 year  
Both Dana Schmidt and Victoria have expressed interest
  - Open Floor  
Chapter received one application for scholarship



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## Twin Tiers Chapter - March BOG Meeting Minutes

- Treasurer's Report (Adam Keller):
  - M&T: Account In Good Standing
  - PayPal: Account In Good Standing
  - H.O. Ward Account In Good Standing
  - William & Joan Albern: Account In Good Standing
  - Reimbursement checks had not been deposited  
Adam to transfer Paypal money to M&T account to make up difference from  
Construction expenses and December donations
- CTC (Kyle Nedlik/Devin Shapley):
  - Kyle Register for President training in April  
Hotel is booked, ready to go for first week of April  
Consider taking Devin as well
- YEA (Victoria Kramer):
  - First Social Event was Nov, first drink sponsored by Trane  
Victoria has been bringing speakers to Jason's class to discuss different parts of the  
engineering industry
- Membership Promotion (Chris Wolak):
  - MP training is in Kansas City in June
- GGAC (Adam Keller):
  - Adam looking for any volunteers that would like to join him at the "Day on the Hill" to  
represent the Southern Tier
- Student Activities (Jason Gilbert):
- Research Promotion (Glenn Roberts):
  - Reminder the chapter is to be reimbursed for the excess Dec donation to meet 30% of goal
  - NCAA Tournament
- History (Rick Sanguinito)
- Special Events
  - Golf and Clambake (Mike McGinnis and Travis Fisher)
    - Will set date to meet with golf course
    - Volunteers to collect door prizes
    - Putting contest
  - Construction – Chapter Opportunity Fund \$500, Tables from Symposium \$500



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## Twin Tiers Chapter - March BOG Meeting Minutes

- PAOE (Mike McGinnis): See below (as of 3/9/19)
  - Reminder to chairs that they can update PAOE points.

CATEGORY	PAR	MIN	PTS
Chapter Operations*	1200	600	965
Chapter Technology Transfer*	1050	550	600
Electronic Communications	500	250	450
Governmental Affairs*	650	500	350
Historical	300	100	785
Membership Promotion*	800	500	875
Student Activities*	500	300	50
RP*	1050	800	830

PAOE requires achieving minimum in 5 of the 6 categories marked with \*

- Pts – Have NOT Achieved Min
- Pts – Have Achieved Min, but not PAR
- Pts – Have Achieve PAR

- New Business

Meeting was adjourned at 4:50

Motioned: Chris

Second: Kyle





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### What Were They Thinking???



Seems legit to me!

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

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



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## 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!**

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

## TRAINING



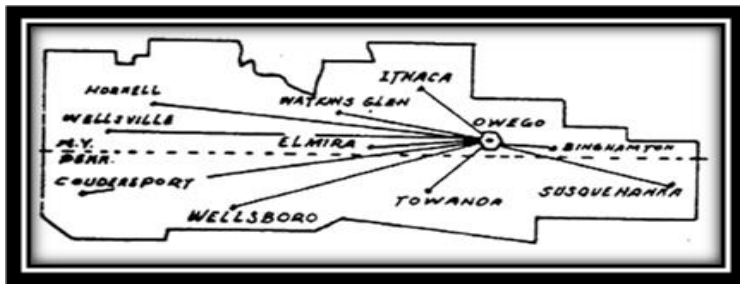
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American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

## TRAINING

### The Benefits of an ASHRAE Certification

#### SHINE IN A RISING FIELD

Certification validates critical job knowledge, skills and abilities in a given practice area.

#### GAIN A COMPETITIVE EDGE

ASHRAE certifications are recognized by over 35 national, state and municipal entities.

#### STAND OUT

Use the ASHRAE Certified logo and designation—e.g. Curtis Smith, BEAP, BEMP—in email signatures, professional networking and business cards to enhance your reputation.

#### ASHRAE WILL SING YOUR SUCCESS

Certificants and their employers are listed on the website and in ASHRAE eSociety.

### 5 Easy Steps to Earn and Maintain an ASHRAE Certification

#### 1. Read the *Candidate Guidebook*

Visit [www.ashrae.org/certification](http://www.ashrae.org/certification) and download the guidebook for the program in which you are interested.

#### 2. Complete the Application

Complete the online application at [www.ashrae.org/certification](http://www.ashrae.org/certification). Membership in ASHRAE is not a requirement for certification.

#### 3. Schedule an Examination

BCxP, BEAP, BEMP, CHD, HBDP, HFDP and OPMP examinations are offered at over 300 conveniently located computer-based testing centers worldwide. Candidates may schedule an examination appointment online or by telephone.

#### 4. Review Available Resources

The *Candidate Guidebook* for a program identifies available resources, including practice exams, that may help candidates gain an understanding of the body of knowledge that the examination tests. Purchase of books or course registrations is not a prerequisite to taking any ASHRAE certification examination.

#### 5. Renew the Certification

Each certification is renewable every three years. To retain certification, each certification holder must earn 45\* Professional Development Hours (PDHs) during the three year period following initial certification or the last renewal.

\*BCxP and BEAP require 50 PDHs.

Schedule an exam at one of over **300 testing centers** worldwide  
**TODAY!**



To learn more or apply, please go to  
**[ashrae.org/certification](http://ashrae.org/certification)**

### High-Performance Building Design Professional (HBDP)



The HBDP certification validates competency to *design and integrate sustainable HVAC&R systems into high performing buildings.*

Today's building design market requires use of ground-breaking technologies in new and existing structures to meet the need of building owners.

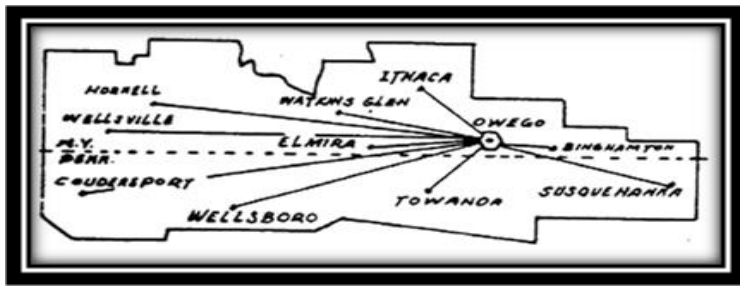
### Healthcare Facility Design Professional (HFDP)



The HFDP certification validates competency to *incorporate standards, guidelines as well as unique healthcare facility requirements and design principles in HVAC system design.*

Growing numbers of aging medical facilities, advances in technology, shifting environmental requirements and an increasingly older population have created a critical need for expansion and renovation of healthcare facilities.





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

## TRAINING

### NEW! Certified HVAC Designer (CHD)



Recognizing an industry need and demand for qualified HVAC designers, ASHRAE developed the Certified HVAC Designer (CHD) certification.

The CHD certification validates competency of an HVAC Designer, working under the responsible charge of an engineer, to design HVAC systems to meet building/project requirements, including load calculations, equipment selection and sizing, mechanical equipment room design, duct and piping design and layout for the development of HVAC plans for permit and construction.

In an "Industry Need" survey, ASHRAE Member respondents agreed:

- "The level of competence among HVAC Designers varies greatly" (95%)
- "HVAC Designer certification is a worthwhile professional development goal" (82%)
- "It is a tool to identify competent new hire prospects" (74%)

Application for the CHD launches March 1, 2019.

### Building Energy Modeling Professional (BEMP)



The BEMP certification validates competency to *evaluate, select, implement, calibrate and interpret the results of energy modeling software when applied to new and existing building and systems energy performance.*

The BEMP certification complements ASHRAE's Building Energy Quotient (BuildingEQ) program by helping to ensure that only qualified practitioners can submit As Designed Workbooks to receive building ratings from ASHRAE. Only those certified as BEMPs, and Professional

Engineers licensed in the jurisdiction where a BuildingEQ project is located, may submit the As Designed Workbooks to ASHRAE. Like BEAPs who may submit In Operation BuildingEQ Workbooks, BEMPs may display the BuildingEQ Certified Provider logo with descriptions of their services.

### Building Commissioning Professional (BCxP)



The BCxP certification, recognized by the U.S. Department of Energy (DOE) as meeting the Better Buildings Workforce Guidelines (BBWG), validates competency to *lead, plan, coordinate and manage a commissioning team to implement commissioning processes in new and existing buildings.*

Many building owners look for ways to lower energy bills, reduce change orders during construction, avoid premature equipment replacement costs, and create safer and healthier buildings. Building

commissioning measures and tunes up performance of existing buildings and ensures that new buildings begin their lifecycle at optimal productivity.

### Building Energy Assessment Professional (BEAP)



The BEAP certification, recognized by the U.S. Department of Energy (DOE) as meeting the Better Buildings Workforce Guidelines (BBWG), validates competency to *assess commercial building systems and site conditions, analyze and evaluate equipment and energy usage, and recommend strategies to optimize building resource utilization.*

The BEAP certification is integral to ASHRAE's Building Energy Quotient (BuildingEQ) program by helping to ensure that only qualified practitioners can submit In Operation Workbooks to receive building ratings from ASHRAE. Only those certified as BEAPs, or Professional Engineers licensed in the jurisdiction where a BuildingEQ project is located, may submit the In Operation Workbook. Additionally, only BEAPs (and BEMPs) may display the BuildingEQ Certified Provider logo with descriptions of their services.

### Operations & Performance Management Professional (OPMP)



The OPMP certification validates competency to *manage facility operations and maintenance to achieve building performance goals, including those related to indoor environmental quality, health and safety.*

Today's complex buildings can fade from green to gray when building operators don't realize the full potential of the systems they manage. Staying current with the latest facility operation strategies and technologies can reduce energy use in buildings by 10% to 40%.

**ASHRAE, the standard setter for sustainable building performance and system design and operation, validates through certification the critical knowledge, skills and abilities of professionals in seven key, built-environment fields.**

**Recognized by over 35 national, state and local government bodies – and with over 2,750 certifications earned – ASHRAE certifications increasingly have become the must-have credential for built-environment professionals.**

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



**Thank you  
Sponsors!**

## 2018 Business Cards



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**Chris Devins**  
Sales Engineer



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Fax (315) 433-9120  
chris.devins@trane.com  
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822 State Fair Blvd.  
Syracuse, NY 13209-1320  
www.proairplus.com



**Joseph Parisella, PE, CPD**  
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main: 607.238.5888  
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## ASHRAE RESEARCH PROJECT



RESEARCH MATTERS

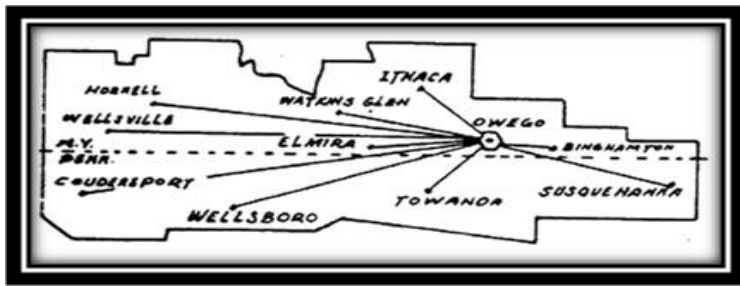


## We need your help!

We are looking for **middle schools, high schools and 2 to 4 story office buildings** from around the country that were designed to comply with ASHRAE 90.1-2010 (or equivalent) or ASHRAE 90.1-2004 code (or equivalent).

**Why?** We are conducting a study to collect and analyze basic building data including actual monthly energy use of 168 secondary schools and medium offices in 14 climate subzones across the U.S. The study will be based on actual energy cost analysis, with supporting building energy modeling, energy audits, and surveys of construction, facility, and operations staff. The study will be used to determine common factors among best and worst buildings and to provide recommendations for future energy codes and standards developments.

**Do you know of any such building and want to help the project?** Please contact the Principal Investigator, Dr. Joe Zhou, at [jzhou@seventhwave.org](mailto:jzhou@seventhwave.org), or phone: 608.210.7155, or fill out a simple, two-minute [online survey](#). We will then contact the building owner or designer for additional information.



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

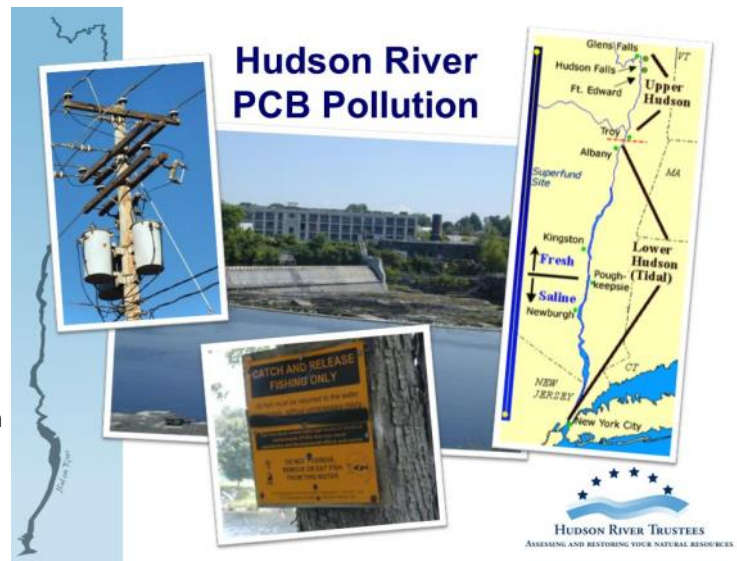
## INDUSTRY ARTICLE

# New York State Intends to Sue U.S. EPA for Failing to Meet Goals of Hudson River PCB

www.governor.ny.gov

By Press Office of NYS Governor April 11, 2019

Governor Andrew M. Cuomo and Attorney General Letitia A. James today announced New York State intends to sue the U.S. Environmental Protection Agency following the Certificate of Completion issued by the agency for General Electric's cleanup of PCB contamination in the Hudson River. Late last year, the New York State Department of Environmental Conservation released a [study](#) showing the cleanup of contamination in the upper Hudson River is incomplete and not protective of public health and the environment. At that time, the State demanded that EPA not issue the Certificate of Completion, as PCB - or polychlorinated biphenyls - levels in fish are still above EPA's own acceptable risk range. EPA's decision to issue the Certificate of Completion is contrary to the law and could make it much harder for EPA to require GE to implement more dredging or other remedial measures in the upper Hudson River, as needed to protect public health and the environment. EPA issued the Certificate of Completion on April 11.



"Time and again the Trump Administration puts corporations and polluters' interests ahead of public health and the environment," **Governor Cuomo said.** "The Hudson River is the lifeblood of communities from New York City to the Adirondacks but we know PCB levels remain unacceptably high in the riverbed and in fish. Since the EPA has failed to hold GE accountable for fulfilling its obligation to restore the river, New York State will take any action necessary to protect our waterways and that includes suing the EPA to demand a full and complete remediation. Anything less is unacceptable."

"The Hudson River is critical to the environment and economy of New York," **said Attorney General Letitia James.** "Despite the EPA's stance, the facts remain crystal clear: the cleanup of PCBs is incomplete, and allowing GE to walk away without accountability is dangerous to the health and wellness of New Yorkers. Once again, the EPA has failed to protect the environment, and failed to protect the residents of our state, but my office will work tirelessly to ensure the cleanup and restoration of the Hudson River carries on."

Before announcing the State's intent to sue, New York - through DEC and the Attorney General's Office - made numerous requests to EPA to fully assess the nature and extent of contamination left behind after six years of dredging to remove PCBs, which was required by EPA in order to meet the goals of the 2002 Record of Decision (ROD). In [August 2016](#), DEC challenged the effectiveness of EPA's cleanup remedy for the Hudson River. In [November 2016](#), DEC called for EPA to conduct additional sampling to ensure a legitimate cleanup of PCB contamination. In [December 2016](#), DEC released its independent analysis challenging the EPA's remedy to clean up PCBs and called on EPA to expand its investigation to the lower Hudson River. In [June 2017](#), DEC Commissioner Basil Seggos told EPA that it had failed New York by determining the dredging remedy effective. In [August 2017](#), after EPA failed to expand their investigation, DEC conducted its own sediment sampling, and in [November 2017](#), DEC and the Attorney General

Page 24  
In [November 2017](#), DEC and the Attorney General





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

## INDUSTRY ARTICLE

# New York State Intends to Sue U.S. EPA for Failing to Meet Goals of Hudson River PCB (Cont.)



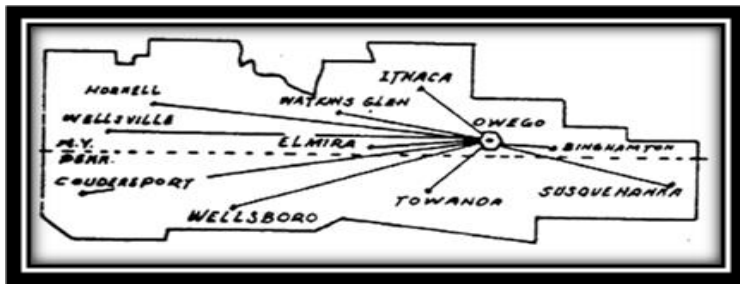
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[December 2017](#), DEC and the Attorney General wrote separately to EPA's then-Administrator Scott Pruitt, urging EPA to deny GE's request to certify the cleanup of the upper Hudson River complete. In March 2018, the Attorney General wrote EPA specifying an appropriate legal alternative to issuing a Certificate of Completion, and in October 2018, DEC and the Attorney General in a joint letter, requested that EPA withhold the Certificate of Completion until it can be determined based upon appropriate data that the remedy is complete and protective of human health and the environment. In [December 2018](#), DEC released its study of the contamination left behind by this failed cleanup project.

**Department of Environmental Conservation Commissioner Basil Seggos said,** "EPA is failing in its mission to protect our environment. EPA is obligated to direct GE to meet the cleanup goals set when the dredging remedy was selected. The federal government's failure to protect New York's environment and New Yorkers is unacceptable, and we are doing what we must to compel EPA and GE to finish the job and protect public health, the precious and irreplaceable Hudson River environment, and the communities that depend on a clean and healthy river."

In the absence of federal leadership, DEC conducted a comprehensive analysis to collect hundreds of new sediment samples, confirming that elevated levels of PCBs remain in the surface sediment of the Hudson River. DEC found that the average sediment PCB concentration varied significantly between different reaches of river, indicating there are still certain areas in the upper Hudson where PCB contaminated sediments remain. In addition, DEC collected nearly 230 fish samples and evaluated fish data generated by the EPA and GE during and after the dredging project. DEC found that fish PCB concentrations are not recovering at the rate anticipated by EPA. DEC also found that fish PCB concentrations in the lower Hudson have not recovered as a result of the remedial work in the upper Hudson.





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

## INDUSTRY ARTICLE

# New York State Intends to Sue U.S. EPA for Failing to Meet Goals of Hudson River PCB (Cont.)

To determine how much additional sediment cleanup is necessary to achieve the cleanup objectives in the ROD, EPA must direct GE to collect additional data to understand how to successfully meet the goals set in the ROD. EPA must also refine its understanding of the relationship between the remaining PCBs in upper Hudson sediments and the fish PCB concentrations in the upper Hudson to determine where and how much further sediment cleanup should be required of GE. DEC is also calling on EPA to compel GE to fund a full investigation of the lower Hudson, and if not, EPA should fund the work.



EPA admits that dredging work in the upper Hudson will have little to no beneficial impact in the lower Hudson. In its May 2017 Five-Year Review of the remedy's effectiveness, EPA stated that human and environmental risks from PCBs in the lower Hudson remain unacceptable and are not expected by EPA to improve because of the work in the upper Hudson. DEC is also calling on EPA to direct GE to collect additional data to determine if another round of sediment remediation is needed. EPA must also compel GE to fund a full investigation of the lower Hudson, where PCB concentrations in fish have not recovered. If GE refuses, EPA should fund this necessary work.

DEC and environmental organizations have repeatedly rejected the findings of EPA's Five-Year Review Report on the Hudson River cleanup remedy and called on EPA to not issue the Certificate of Completion to EPA. Under the Comprehensive Environmental Response, Compensation, and Liability Act and the National Contingency Plan, EPA is required to monitor effectiveness of the remedy to affirm that it is meeting the goals set by the ROD. EPA must take additional remedial action if the remedy fails to meet the goals required by the ROD.



"Governor Cuomo and Attorney General James Announce New York State Intends to Sue U.S. EPA for Failing to Meet Goals of Hudson River PCB" *New York State Governor Andrew M. Cuomo*. Press Office of the New York State Governor, 11 Apr. 2019. Web. 12 Apr. 2019. <<https://www.governor.ny.gov/news/governor-cuomo-and-attorney-general-james-announce-new-york-state-intends-sue-us-epa-failing>>.



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

## Twin Tiers Chapter– Employment Opportunities



### Mechanical Engineer

**Position Title:** Mechanical Engineer — MEP Design

**Location:** Ithaca, New York.

Taitem Engineering has an opportunity for an engineer with expertise in energy-efficient HVAC design and with knowledge of electrical systems. The successful candidate will work in Taitem's thriving Design Department, focusing on HVAC and electrical design for both new and existing buildings, and will also contribute to other design projects, as part of our MEP+S team.

Taitem is a progressive consulting firm based in beautiful Ithaca, New York. Founded in 1989, Taitem was recently named one of Central New York's best places to work by CNY Business Journal. Taitem is a mission-driven BCorporation, committed to the "triple bottom line" of people, planet, and profit. Taitem is known for its high-quality work in designing and supporting sustainable, high-performing buildings. "Taitem" stands for "technology as if the earth mattered," reflecting the firm's commitment to the environment. Flexible schedules, family-friendly policies, and support for excellence make Taitem a life-sustaining place to work.

**Required Skills and Qualifications:**

- Proficiency in AutoDesk Revit and AutoCAD
- Experience working independently on complex projects
- Engineering degree
- Five years in a comparable position
- Demonstrated ability to manage projects
- Ability and willingness to mentor junior engineers
- Strong knowledge of building codes, esp. for New York State
- Ability to communicate clearly and expertly with peers and clients

**Additional Skills and Qualifications:**

- New York Professional Engineer license or eligibility
- Knowledge of mechanical and electrical design for buildings
- Experience with energy-efficient technologies and sustainable design principles

**Compensation:** The recruiting range for this position is competitive and depends on the skills and experience of the applicant. This is a full-time benefits-eligible position. Benefits include medical and dental insurance, paid time off, professional development funds, and an employee assistance program.

Please submit your resume and letter of interest at <https://www.fitzii.com/apply/39168?s=fc>  
Taitem Engineering is committed to creating a diverse workplace and encourages applications from women and people of color.

Taitem Engineering, PC is an equal opportunity employer and will not discriminate against any employee or applicant on the basis of age, color, disability, gender, national origin, race, religion, sexual orientation, veteran status, or any classification protected by federal, state, or local law.

Visa sponsorship is not available for this position.





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

## Twin Tiers Chapter– Employment Opportunities



### **Mechanical Engineer**

Department: Building Engineering

Location: Elmira Heights, NY

LaBella Associates was established in 1978 and has been voted a Top Workplace for the last five years. We are headquartered in Rochester, NY with offices across New York, Ohio, Pennsylvania, Virginia, North and South Carolina, and Madrid, Spain. LaBella is a multi-disciplined architectural and engineering firm dedicated to client satisfaction through teamwork, respect, and trust. We provide services that take a project from start to finish—from an initial study to determine a project's feasibility to construction administration and start up, and everything in between.

#### Job Overview:

We are currently seeking a Mechanical Engineer/Designer with a career interest in Building Projects to work in our Elmira Heights, NY office. This position will work with other Engineers as part of a Project Team to develop concepts, strategies, designs, specifications and reports. Duties may also include assisting with energy clients.

#### Duties:

- Work with other Engineers as part of a Project Team to develop concepts, strategies, designs, specifications and reports.
- Work will be primarily on HVAC projects including many different building types, clean rooms, labs, and manufacturing spaces.
- Energy engineering. This may include building modeling and analysis to assist customers with recommendations and designs for energy savings.
- Renewable energy design
- Initial work may involve AutoCAD and Revit work for preparation of various types of drawings during the concept, schematic, design development and construction documents phases of projects.
- Coordinate design and drawings with multiple engineering disciplines.
- Assist in preparation of calculations needed to size equipment.
- Learn and master other software tools needed to complete design work.
- Make field visits with engineer to verify existing conditions.
- Communicate with equipment vendors to obtain necessary information on engineering products and systems.
- Assist the Project Manager/Engineer on a daily basis as needed to insure that project objectives and schedules are met.

#### Requirements:

- Background in AutoCAD and/or Revit is preferred.
- Bachelor's or Associates degree required.
- Experience in the A/E consulting business is a plus.
- Candidate must be able to work independently, as well as part of multi discipline teams producing mechanical engineering documents and must have well rounded experience in Mechanical Design.

Please apply online and/or send resumes directly to:

<https://www.labellapc.com/careers>  
[Rpascuzzo@labellapc.com](mailto:Rpascuzzo@labellapc.com)



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

## Twin Tiers Chapter– Employment Opportunities



### **CAD/Designer**

Department: Building Engineering

Location: Elmira Heights, NY

LaBella Associates, D.P.C is one of Rochester's Top 100 Fastest Growing Companies. We are headquartered in Rochester's High Falls District with offices across New York and Ohio, Pennsylvania, North Carolina, and an office in Madrid, Spain. We are a multi-disciplined engineering and architectural firm dedicated to client satisfaction through teamwork, respect, and trust.

We are currently seeking a CAD/Designer with a career interest in Building Projects to work in our Elmira Heights, NY office. The position included HVAC primarily, but skill set in piping CAD/Design also. This position will work with other Engineers as part of a Project Team to develop concepts, strategies, designs, drawings, specifications and reports. Duties may also include assisting with energy clients. The position will involve working with AutoCAD, Micro station, and Revit.

Candidate must be able to work independently, as well as part of multi-discipline teams producing mechanical construction documents.

Please apply online and/or send resumes directly to:

<https://www.labellapc.com/careers>

[Rpascuzzo@labellapc.com](mailto:Rpascuzzo@labellapc.com)



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

## Twin Tiers Chapter– Employment Opportunities



Design Your Career

### Senior Mechanical Engineer – Buildings

Our Buildings practice keeps people at its heart, recognizing that our shared journey forward is shaped by the meaningful and responsive places we design. From iconic designs to monumental groundbreakings, join us to bring transformational building solutions to life. Every day we apply our expertise, creativity, and passion to propel communities into the future—join us!

#### Your Key Responsibilities

- Preparation of specific 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

- Registered PE in the state of New York desired, registration in other states a plus
- Must have strong Mechanical Engineering skills in the area of 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

#### Education and Experience

Bachelor's degree in Mechanical Engineering  
A minimum of 8 – 12 years' experience is required

*This description is not a comprehensive listing of activities, duties or responsibilities that may be required of the employee and other duties, responsibilities and activities may be assigned or may be changed at any time with or without notice.*

Stantec is a place where the best and brightest come to build on each others' talents, do exciting work, and make an impact on the world around us. Join us and redefine your personal best.

Please apply online or directly at:  
(Endicott)

<https://stantec.jobs/endicott-ny/senior-mechanical-engineer-buildings/D1F3DB82CD724315831E3B823AD94301/job/>





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, 2018.
- New subscription will run the calendar year 2019.
  - Cost to advertise for the 2019 year is \$50.
- Sign up now for the 2018 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](mailto: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 2019**

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 2019. This is a great opportunity to get your name and business in front of the over 250 subscribers to our chapter newsletter. The price for the newsletter only is \$50 for the entire 2018 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](mailto:Twin Tier Newsletter Editor Email)

### Comments? Suggestions?

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