



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

May Meeting
May 21, 2019

OMMEGANG BREWERY

**BREWERY TOUR & TASTING
VISITOR CENTER TOUR**

5:30AM - 8:15PM

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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TWIN TIERS TALK



Corner

President's

Dear Twin Tiers Chapter Members,

Thank you to everyone who attended the April Spring Symposium meeting in downtown Binghamton. It was great to see all of the familiar faces. A big 'Thank You' Devin Shapley who coordinated the entire event.

All couple of reminders for upcoming chapter meetings and events:

- The May meeting will be at Ommegang Brewery in Cooperstown NY. Transportation will be provided as part of the registration cost. See the flyer for more details
- Year End Golf Outing and Clam Bake will be held on June 18th. Please let Travis Fisher or I know if you are interested in donating door prizes. Registration is posted on the website.

This year, we once again had the opportunity to award a scholarship to college students interested in pursuing a degree in the engineering field. This is made possible each year through our H.O. Ward Scholarship Fund. Congratulations to the recipient, Osman Hasan (Binghamton University).

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!](#)



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

Twin Tiers Chapter

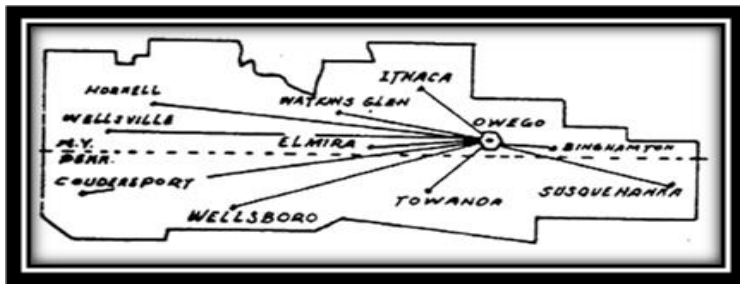
Presidential Award of Excellence (PAOE)

	Chapter Operations	Chapter Technology Transfer	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	1140	1150	580	550	785	850	830	671

POINTS CURRENT AS OF 5/7/2019

Chapter Committee Chairs

Technology Transfer Kyle Nedlik (607) 321-6100 Email Me!	Government Activities Adam Keller (315) 487-8791 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 Matthew Lloyd 607) 239-3956 Email Me!	H.O. Ward Scholarship Richard Sanguinito (607) 231-6605 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 Jason Gilbert (607) 777-2240 Email Me!
Honors & Awards Michael McGinnis (607) 727-3168 Email Me!	Historian Richard Sanguinito (607) 231-6605 Email Me!	Symposium- Fall/Spring Kyle Nedlik (607) 321-6100 Email Me!	Auditing Rick Sanguinito & Andrew Nice (607) 231-6605 / 607-760-5960 Email Me!
Webmaster Petros Papathomopoulos (607) 723-9421 Email Me!	Newsletter Editor Andrew Nice 607-760-5960 Email Me!	YEA: Young Engineers Victoria Kramer (607) 321-6127 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

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 & 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 & 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 Refrigeration & Donor Recognition Night	-
18-Jun	None	Golf Tournament	-

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

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



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

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 Adelmann
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

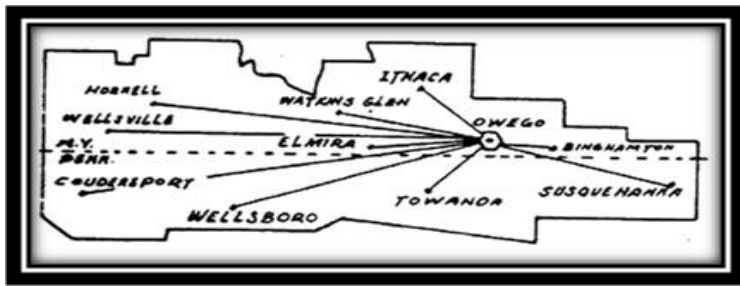
Petros Papathomopoulos
Adam Keller
Arthur Monaco
Michael Colwell

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](#)



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

H.O. WARD SCHOLARSHIP AWARD



By
Rick Sanguinito Scholarship Chair 2018-2019

H. O. WARD SCHOLARSHIP

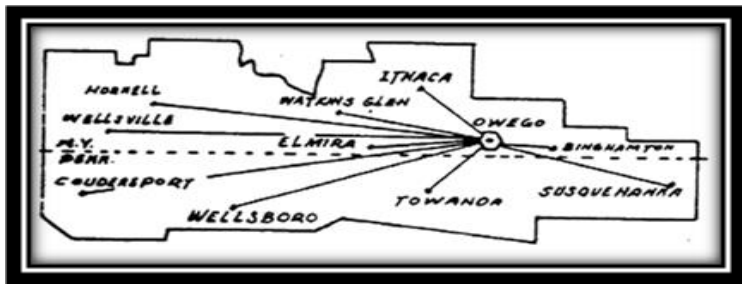
Date: May 25, 2019

Congratulations to the H.O. Ward Scholarship this year. The Twin Tiers Chapter of ASHRAE is issued the following Scholarship for 2019.

- Osman Hasan \$1,000 Scholarship
Binghamton University

We look forward to next year's applications!!

I want to thank all who were involved in evaluating the scholarship applications and providing input in selecting this year's recipients.



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

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

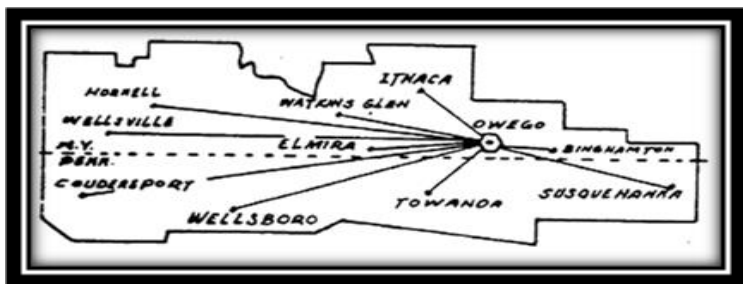
Shopping List

Canned Corn
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Vienna Sausages

Visit

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

CANSTRUCTION OF THE SOUTHERN TIER

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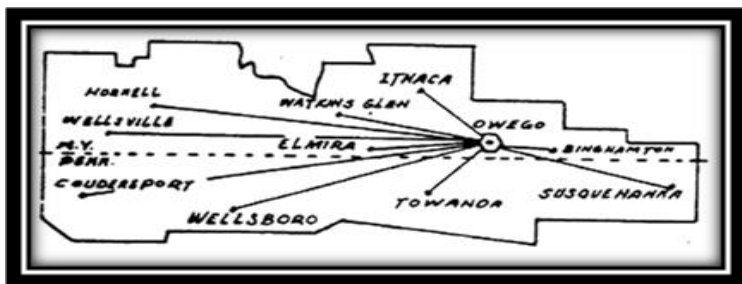
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American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

May Chapter Meeting Announcement

May 21, 2019

ASHRAE Twin Tier May Chapter Meeting

DATE: Tuesday, May 21th, 2019

TIME: 5:30 PM

TOUR & MEETING LOCATION: Ommegang Brewery
656 Co Hwy 33
Cooperstown, NY 13326

BUS PICKUP LOCATION #1: **Binghamton University Physical Facilities**
Binghamton University - Intersection of Bunn Hill Access Rd. & West Dr.
4400 Vestal Pkwy E.
Binghamton, NY 13902

BUS PICKUP LOCATION #2: **Chenango Park and Ride**
Intersection of Chenango Bride Rd. & Kushman Blvd.
Binghamton, NY 13901

SPEAKER: Mike & Dan O'Reilly - Principle Design

DESCRIPTION: Brewery Ommegang is a brewery located near Cooperstown, NY, that specializes in Belgian-style ales. Ommegang, a 20-year-old brewery, is one of Upstate New York's top beer destinations. In addition to its year-round offerings of beer and food, it hosts several festivals and a summer concert series.

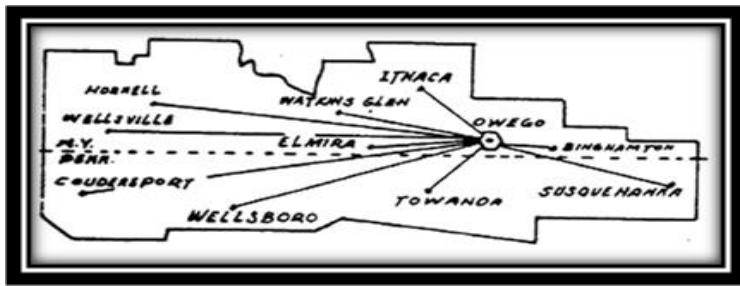
In 2018, Ommegang underwent a \$2 million renovation to its facilities. The renovations included a new main entrance, new indoor seating along a windowed wall with unobstructed views of surrounding fields and hills, a new 4,000-square-foot covered patio, and expanded retail space to accommodate the brewery's growing number of small batch limited releases. The renovations doubled the size of the visitor's center.

The meeting will begin with a tour of Ommegang's facility, with Mike and Dan O'Reilly from Principle Design giving a tour of the newly renovated Visitor Center's mechanical systems. After the tour, the group may participate in a complimentary tasting in Ommegang's Tasting Room. Following the tasting, dinner will begin, and after dinner and a brief Chapter Meeting an open bar social/networking hour will commence. The tasting, dinner, and open bar is sponsored by Meier Supply and LG.

Bus transportation will be provided by the Chapter from Binghamton University's Physical Facilities Building and Chenango Park and Ride in Chenango Bridge to Ommegang and back, for those who would like to utilize this service. Please note that the bus will leave the designated stops at the exact times listed, and no later.

This month's event will also be our chapter's 2018-2019 refrigeration night, as well as donor recognition night.





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

May Chapter Meeting Announcement (Cont.)

May 21, 2019

ASHRAE Twin Tier May Chapter Meeting

AGENDA:

4:00: Bus Departs from Stop #1 Binghamton University Physical Facilities
 4:15: Bus Departs from Stop #2 Chenango Park and Ride
 5:30: Bus Arrives at Ommegang Brewery
5:30-6:30: Ommegang Facility Tour, Visitor's Center Mechanical Tour, & Tasting
6:30-7:00: Begin Dinner, & Brief Chapter Meeting
7:00-8:15: Social Hour & Networking
 8:15: Bus Departs from Ommegang Brewery
 9:30: Bus Arrives at Stop #2 Chenango Park and Ride
 9:45: Bus Arrives at Stop #1 Binghamton University Physical Facilities

MENU:

Entrees:

- Spinach and Mushroom Stuffed Pork Tenderloin
- Braised Beef with Hungarian Goulash
- Herb Crust Cod Loin with Lemon Caper Butter Sauce

Sides:

- Fondant Potatoes
- Oven Roasted Seasonal Vegetables

Desert:

- Carrot Cake
- Cheese Cake

Refreshments:

- Water, Soda, & OPEN BAR

REGISTRATION:

Register online at <http://twintiers.ashraechapters.org/> (Under the "Programs" Tab)
 \$25.00 Early Registration (By 3/14/2019)
 \$30.00 (After 3/14/2019)

CONTACT:

Kyle Nedlik
 (Please call, text, or email me at below with any questions or if you get lost)

E: [Email Me!](mailto:kyle.nedlik@ashrae.org)

C: (607) 321-6100



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

Twin Tiers Annual Golf Tournament!

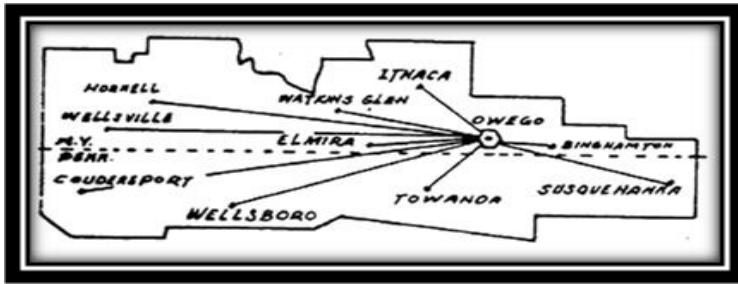


Annual Golf Tournament and Clambake

The date for the annual golf tournament and clambake is **Tuesday, June 18.** The event, both golf and clam bake, will be held at **The Links at Hiawatha Landing**. The day will begin with a 10:30am shotgun start. As in past years, the round will include lunch at the turn and keg beer all day. We will have prizes for the winning foursome, closest to pin and drive closest to the line. With its great success over the past few years, the putting contest will also be returning.

The clambake will take place immediately after golf, approximately 4pm. The menu will include 2 dozen steamed clams per person, thin sliced ribeye steak sandwiches with sautéed onions/peppers/mushrooms, chicken spiedies, salt potatoes, corn on the cob, garden salad, soft drinks, and beer. There will be door prizes. Our hope is to see lots of non-golfers join all the golfers from earlier in the day.

As always, the golf committee is looking for donations for door prizes and giveaways. Please contact Mike McGinnis or Travis Fisher with any questions. Thank you.



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

Twin Tiers Annual Golf Tournament!

2019 Golf Tournament & Clambake - Tuesday, June 18 2019

Golf shotgun start at 10:30 AM & Clambake at approx. 4:00 PM

Golf Tournament:

The Links at Hiawatha Landing

2350 Marshland Rd, Apalachin, NY 13732 • (607) 687-6952

- ❖ Captain & Crew format. Includes greens fees, two carts, lunch at the turn, soft drinks, keg beer & prizes for winners. (Foursomes only)
- ❖ We will also be holding a putting contest to raise money for the chapter Research Promotion. The purchase of a golf ticket includes entry to the putting contest and \$20 per golfer will be put toward the chapter RP goal.

Clambake:

The Links at Hiawatha Landing

2350 Marshland Rd, Apalachin, NY 13732 • (607) 687-6952

- ❖ Menu: The menu will include thin sliced ribeye steak sandwiches with sautéed onions/peppers/mushrooms, chicken species, salt potatoes, corn on the cob, garden salad, soft drinks, and beer and Two Dozen Steamed Hard Shell Clams Per Person
- ❖ Great Door Prizes and a 50/50 raffle to benefit the Twin Tiers ASHRAE Chapter

Captain's Name & Company: _____

For tickets or more information, contact:

Mike McGinnis
mmcginnis@rlkistler.com
607-727-3168

Travis Fisher
tf222@cornell.edu

Package	Early Bird Price (on or before 5/24)	Regular Price (After 5/24)
Golf only (4 person team)	\$300	\$325
Golf, 4 Clambake tickets, Putting Contest for 4	\$525	\$575
Golf, 4 Clambake tickets, Hole Sponsor, Putting Contest for 4	\$600	\$675
Hole Sponsor (includes 1 clambake ticket)	\$115	\$130
Clambake Tickets	\$50	\$60

Note: All forms and payment must be received by June 7, 2019

Payment & Registration may be completed online @

<http://twintiers.ashraechapters.org> or you may send the registration form and a check to confirm your reservation.

Checks should be made payable to Twin Tiers ASHRAE.

Please mail checks to Mike McGinnis, 12 Overbrook Ave, Binghamton NY 13903



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

Twin Tiers Annual Golf Tournament!

2019 Golf Tournament & Clambake - Tuesday, June 18, 2019

Golf shotgun start at 10:30 AM & Clambake at approx. 4:00 PM

Golf Tournament and Clambake:

The Links at Hiawatha Landing

2350 Marshland Rd, Apalachin, NY 13732 • (607) 687-6952

Individual Tee & Hole Sponsorship

We are asking for your support at our annual golf outing for hole or tee sponsorship. Note that we will be using colored logos this year, same as last year. If you would like to use a new logo, please email it to us.

- ❖ The cost is \$130.00 per hole or tee (\$115 if your payment is received by the early-bird deadline of 5/24).
- ❖ A free clam bake ticket is provided for you as a sign of our gratitude.

If you have donated in the past, we would like to take this opportunity to Thank You for your continued support. If this is your first sponsorship, we certainly appreciate your help.

Sponsor: _____

For payment or more information, contact:

Mike McGinnis
mmcginnis@rlkistler.com
607-727-3168

Travis Fisher
tf222@cornell.edu

Note: All forms and payment must be received by June 7, 2019

Payment & Registration may be completed online @

<http://twintiers.ashraechapters.org> or you may send the registration form and a check to confirm your reservation.

Checks should be made payable to Twin Tiers ASHRAE.

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I don't have any words for this one!

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*** 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



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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.

LOCAL TOUR / TRAINING



High Performance Laboratory & Business Incubator Facility

Binghamton, NY

Friday, May 10, 2019

CEUs: 3.0 AIA LU/HSW pending; certificates of attendance provided to all attendees

[REGISTER NOW](#)

\$25 Members/\$35 Non-Members

Join NESEA for a tour of the new Koffman Southern Tier Incubator, an innovative facility that provides labs and shared facilities for start-up companies. The tour will be hosted by Pathfinder Engineers & Architects.

This project has been recognized as a recipient of a 2019 ASHRAE Technology Award, an honor given to just eight buildings worldwide. This award recognizes the outstanding and innovative technical design that is proven through actual building operating data.

Attendees will see an opening presentation about the history and design of the building before touring the facility with members of the project team. Several topics will be covered during the tour, with an emphasis on the engineering and architectural strategies that allow this building to meet energy goals while meeting the needs of such diverse occupants.

You can read more about the building in [this case study](#), which was published in the March 2019 issue of the *ASHRAE Journal*.

Project Details

- **Square Footage:** 38,000
- **Type of Construction:** New
- **Units:** 10 wet labs, 8 dry labs; 22 offices, plus common spaces

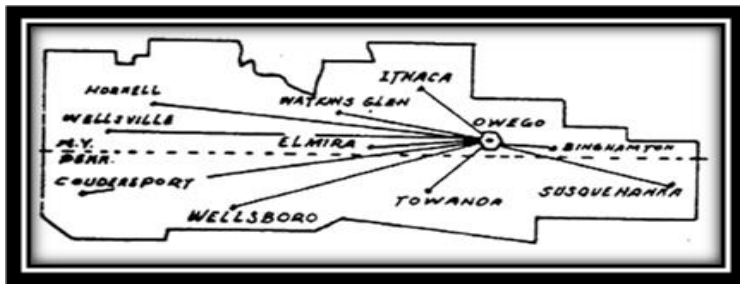
The hybrid GSHP system is integrated with high performance hydronics for radiant heating and cooling. Lab HVAC systems, which represent 60% of the total building HVAC energy use, feature:

- 56% energy recovery via a heat pipe from exhaust (No cross contamination)
- 10 low flow fume hoods
- GSHP water-to-water integrated with moderate temperature, dual temperature hydronics and chilled beams
- Active pressure control for safe negative relationships between public corridor and lab anterooms and anterooms to labs
- Visual color-coded lab safety pressure indicators in public corridors for occupant safety



12:30PM	Doors open, registration, networking and coffee
1:00PM	Welcome by NESEA
1:10PM	Overview of the project by the host
2:00PM	Tour of project begins; attendees rotate through content-specific stations
3:45PM	Group Reconvenes back at initial meeting point
4:00PM	Reception with light refreshments
4:15PM	Q&A Panel with members of project team
5:00PM	Event Concludes

If you have questions about this event, you can contact Florence at fmacgregor@nesea.org or 413-774-6051 x10.



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 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. 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

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

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, 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.

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:

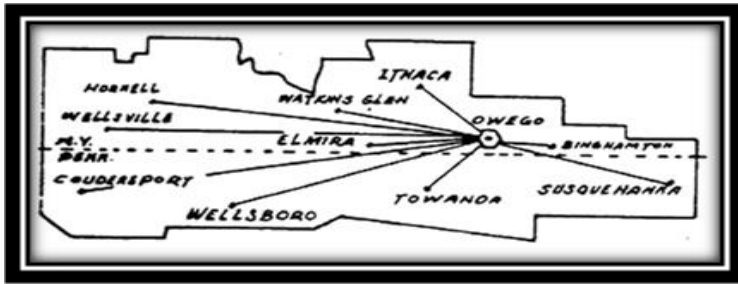
- Work with other Engineers as part of a Project Team to develop concepts, strategies, designs, specifications and reports.
- Work will be primarily on HVAC projects including many different building types, clean rooms, labs, and manufacturing spaces.
- Energy engineering. This may include building modeling 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



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



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.

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

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:

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Ithaca, NY 14851-6706