



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 2017-2018



Shaping Tomorrow's
Built Environment Today

February Meeting February 20, 2018

TOUR:

Binghamton University Heating Plant

TOUR GUIDES:

Sandy DeJohn, Martin Curtis, & Jason Gilbert

PRESENTATION:

Binghamton University Heating Plant

SPEAKERS:

Sandy DeJohn, Martin Curtis, & Jason Gilbert

TWIN TIERS TALK



To register, visit the Chapter website:

<http://twintiers.ashraechapters.org>

Please send all newsletter comments to:

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

[Email the Editor](#)

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



Corner

President's

Dear Twin Tiers Chapter Members,

February is here and this means that we are half way through the 2017-2018 ASHRAE season. February is also the month of National Engineers Week (February 18–24, 2018). National engineer's week was founded in 1951 by NSPE with the goal of promoting a diverse and well-educated future engineering workforce. It does so by increasing understanding of and interest in engineering and technology careers and by raising public awareness of engineers' positive contributions to quality of life. For more information you can refer to the DiscoverE website: (<http://www.discovere.org/our-programs/engineers-week>)

Please take the time to thank the engineer in your life, or if you're it, just pat yourself on the back for making the world a better place!

Our January meeting found us touring the newly renovated Upson Hall and discussing the challenges and solutions that went into making the project a success. As always, Lanny Joyce, Mark Howe and the rest of Cornell's staff were wonderful hosts.

February's meeting and tour will be hosted by another regular contributor, Jason Gilbert, of Binghamton University. Come join us for what is slated to be another great tour, meet BU engineering students that will be attending the event and maybe help tip the scales in their career decision process. Be that positive influence and show them how wonderful it is to be thinking and dreaming HVAC all day long every day of the week.

Sincerely,
-Petros Papathomopoulos
Twin Tiers Chapter President

Chapter President



Petros Papathomopoulos
(607) 723-9421

[Email Me!](#)

2017-2018 Chapter Officers

President-Elect

Michael McGinnis
(607) 727-3168

[Email Me!](#)



Vice President

Kyle Nedlik
(607) 321-6100

[Email Me!](#)



Treasurer

Devin Shapley
(607) 723-9421

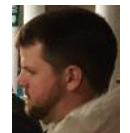
[Email Me!](#)



Secretary

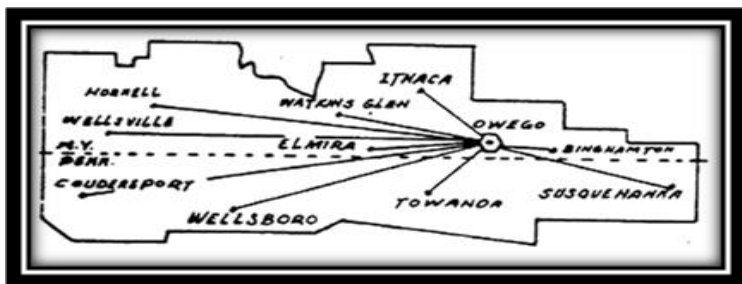
Adam Keller
(315) 487-8791

[Email Me!](#)



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Twin Tiers Chapter

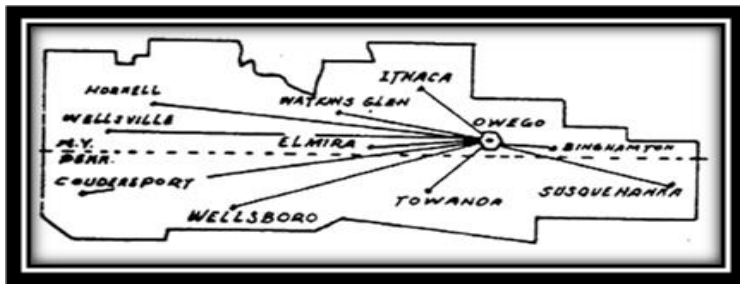
Presidential Award of Excellence (PAOE)

	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	790	1075	319	700	685	760	570	225

POINTS CURRENT AS OF 2/15/2018

Chapter Committee Chairs

Technology Transfer Michael McGinnis (607)727-3168 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 Devin Shapley (607)723-4979 Email Me!	H.O. Ward Scholarship Richard Sanguinito (607) 231-6605 Email Me!
Research Promotion Glenn Roberts (315)234-1527 Email Me!	Student Activities Victoria Kramer (607) 321-6127 Email Me!	Membership Directory Chris Wolak (484) 350-1954 Email Me!	Albern Education Fund Jason Gilbert (607) 777-2240 Email Me!
Honors & Awards Petros Papathomopoulos (607) 723-9421 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 Mike Colwell (570) 706-0690 Email Me!	Newsletter Editor Andrew Nice 607-760-5960 Email Me!	YEA: Young Engineers Devin Shapley (607)723-4979 Email Me!	Publicity Andrew Nice 607-760-5960 Email Me!



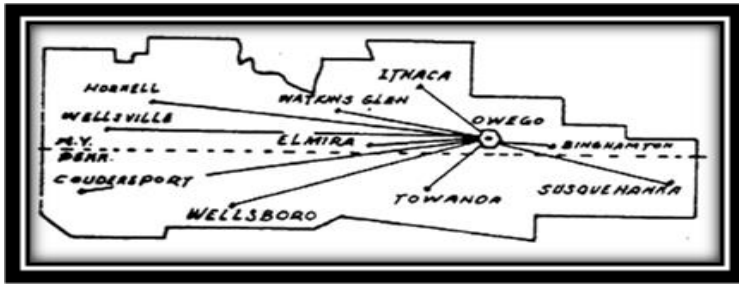
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Twin Tiers Chapter– Monthly Meeting Information

2017-2018 Meeting Dates:

Date:	Speaker	Tech Session Topic, Tour or Meeting Info	Attendance:
19-Sep	Adam Keller, Pro Air Plus Jerry Meyer Jr., MIS of America	Cooling Tower Basics Cooling Tower Shut-down and NSF Legionella Guideline	27
17-Oct	Multiple/TBD	Fall Engineering Symposium—Daytime	67
21-Nov	Michael Collins, Eagle Bay Refrigeration	TOUR Cornell University Lynah Ice Rink Refrigerant Update	12
19-Dec	William P. Bahnfleth, Ph.D., P.E., ASHRAE Distinguished Lecturer	Integrating Indoor Air Quality and Energy Efficiency in Buildings	31
16-Jan	Lanny Joyce, Mark Howe, Lou Damiani, Pete Meenan, Cornell University	TOUR Upson Hall Cornell University High performance building design - Sibley School of Mechanical and Aerospace Engineering building	?
20-Feb	Jason Gilbert	TOUR Binghamton University Heating Plant	
20-Mar	Ernie Nitsche	TOUR Corning Inc. Sullivan Park Process HVAC Systems, Energy Management at Corning Inc. **** NOTE **** A SIGNED NDA WILL BE REQUIRED FOR THIS TOUR	
17-Apr	Multiple/TBD	Spring Engineering Symposium—Daytime	
15-May	Doug Clay, Sack Engineering	TOUR Tompkins Trust Building New Tompkins Trust HQ Project – Water Source VRF, DOAS, Cooling Tower, Boilers	
19-Jun	None	Golf Tournament	

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



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Twin Tiers ASHRAE H.O. Ward Scholarship



By
Rick Sanguinito Historian 2017-2018

H. O. WARD SCHOLARSHIP

Date: January 12, 2018

Last year we had Three scholarship recipients

Doris Wong	\$1,000 Scholarship
Melissa Gross	\$500 Scholarship
George Pappass	\$500 Scholarship

**APPLICATION
DEADLINES
EXTENDED**

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

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

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

APPLICATIONS MUST BE SUBMITTED BY FEBRUARY 28, 2018

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**Thank you
Sponsors!**

2018 Business Cards



Mike McGinnis, P.E.

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anice@meiersupply.com



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February Meeting Announcement

February 20, 2018

February Chapter Meeting

- DATE:** Tuesday, February 20th, 2018
- TIME:** 5:00PM
- TOUR LOCATION:** Binghamton University Heating Plant
- TOUR GUIDES:** Sandy DeJohn, Martin Curtis, & Jason Gilbert
- MEETING LOCATION:** Binghamton University Physical Facilities Building
- PRESENTATION:** Binghamton University Heating Plant
- SPEAKERS:** Sandy DeJohn, Martin Curtis, & Jason Gilbert
- AGENDA:**
 5:00 – 5:30 – Arrive at Physical Facilities Building and Presentation
 5:15 – 6:15 – Tour of the Central Heating Plant
 6:30 – 8:00 – Dinner and Brief Chapter Meeting
- MENU:**
 Caesar Salad with Homemade Croutons
 Fried Chicken Breast Parmesan
 Meatloaf with Spanish Onions
 Garlic Mashed Potatoes
 Balsamic Herb Roasted Vegetables
 Double Chocolate Layer Cake
 Dutch Apple Pie
- REGISTRATION:** Register online at <http://twintiers.ashraechapters.org/> (Under the “Programs” Tab)
 \$25.00 Early Registration (By 2/16/2018)
 \$30.00 (After 2/16/2018)
- CONTACT:** Mike McGinnis
 (Please call, text, or email me at below with any questions or if you get lost)
 E: [Email Me!](mailto:Mike.McGinnis@ashrae.org)
 C: 607-727-3168



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

Twin Tiers Chapter - January BOG Meeting Minutes



<http://twintiers.ashraechapters.org>

Board of Governors Meeting

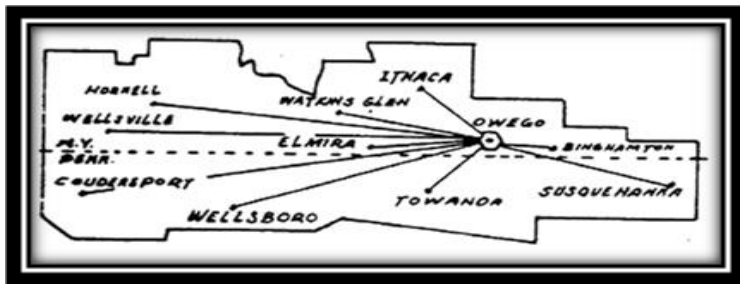
Date: January 16, 2018

Location: Cornell University,
Ithaca, NY

Agenda

Meeting was called to order at 4:08 pm

- Call to Order and Attendance: Kyle N., Rob V., Travis R., Chris W., Jason G., Devin S., Petros P., Adam K.
- General Announcements: Most of the PAOE point goals met
- Treasurer's Report (Devin Shapley):
 - All accounts are in good standing.
- CTTC (Mike McGinnis / Kyle Nedlik)
 - Spring Symposium(Kyle):
 - Speaker solicitations – ECM pump motors, 3 DLs secured, Maybe a balancer?
 - Table sponsorships – Price Point?
 - Marketing opportunities
 - Monthly Meetings (Mike): February Meeting location/theme
 - BU Heating Plant
 - Dust Collection System
 - Meet in facilities or bear cat?
 - YEA ASHRAE Jeopardy
 - March – Wegmans, not Corning
 - Need Door Prizes for Golf Tourney
- YEA (Devin Shapley/Victoria Kramer): Update on YEA event for March?
- Membership Promotion (Chris Wolak):
- GGAC (Adam Keller):
 - Day on the Hill to be in May or June
- Student Activities (Jason Gilbert): Meeting w/BCC update
 - BCC – Go under BU chapter if there aren't enough students for separate BCC chapter
- Research Promotion (Glenn Roberts):
 - \$1,300?



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

Twin Tiers Chapter - January BOG Meeting Minutes



<http://twintiers.ashraechapters.org>

Board of Governors Meeting

Date: January 16, 2018

Location: Cornell University,
Ithaca, NY

- PAOE (Petros Papathomopoulos): Reminder to chairs that they can update PAOE points.

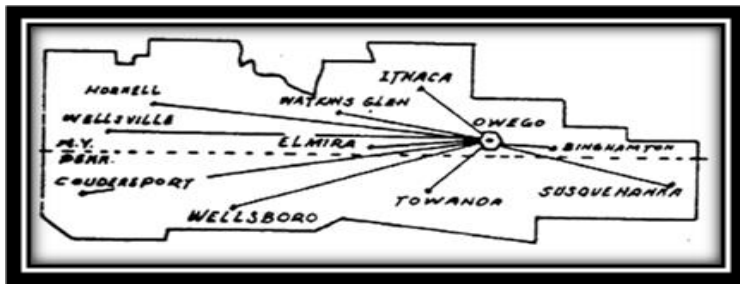
CATEGORY	PAR	MIN	PTS
Chapter Operations*	1200	600	770
Chapter Technology Transfer*	1050	450	1075
Electronic Communications	500	250	157
Grassroots Government Advocacy*	650	500	700
Historical Criteria	300	100	685
Membership Promotion*	800	500	885
RP*	1050	800	430
Student Activities*	500	300	225

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

- New Business
 - (CO39 & CO40 Chapter sponsored community sustainability project and publicity.
 - Habitat for Humanity
 - OR
 - Construction of the Southern Tier: 100% of the food and financial proceeds will support the Food Bank of the Southern Tier & CHOW's work to end hunger.

***Motion to participate in Construction by Chris Wolak, Second – Petros

- Old Business
 - Mail \$1,300 check for RP (status?)



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presented by



What is Canstruction®

The Broome Leadership Institute (BLI) Alumni Association Board will host the fourth annual **Canstruction of the Southern Tier** event in Broome County from April 8 – 15th, 2018 at the Oakdale Mall in Johnson City.

Canstruction® is an international hunger-relief competition where teams, often architects, engineers and contractors, compete to design and build giant structures made entirely out of full cans of food.

At the close of the competition, all of the food from Canstruction of the Southern Tier will be donated to CHOW and distributed to hunger-relief agencies in Broome County to help feed neighbors in need.

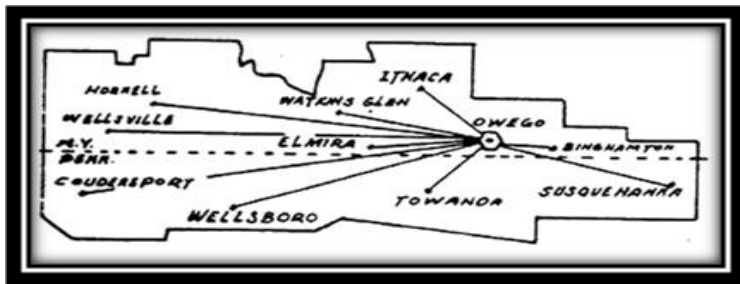
How Will Canstruction of the Southern Tier Benefit Broome County?

All of the proceeds from Canstruction of the Southern Tier will help support hunger-relief activities in Broome County. The donated food will be distributed through CHOW to hunger-relief agencies in Broome County including food pantries, soup kitchens, and community meal programs. The funds raised will be earmarked for hunger-relief activities in Broome County.

Working in Partnership to Meet the Need

CHOW and the Food Bank of the Southern Tier work in partnership to leverage national, regional, and local resources to end hunger in Broome County. As a member of Feeding America, the nation's food bank network, the Food Bank has the ability to acquire food from across the U.S. CHOW operates as its own entity, receiving food from the Food Bank and relying on food and monetary donations from local residents, organizations and companies.





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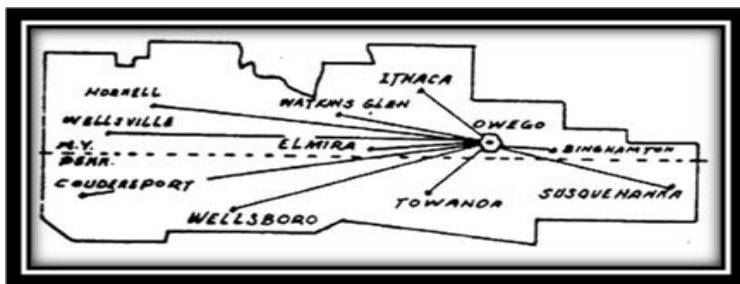
Sponsorship Opportunities

Sponsorship Benefits & Recognition	Gold Sponsor \$2,500	Silver Sponsor \$1,000	Supporting Sponsor \$500
Sponsor Logo on Event Signage Displayed in 3 locations at Oakdale Mall, Johnson City (\$450 value)	X		
Sponsor Name Listed on Event Signage Displayed in 3 locations at Oakdale Mall, Johnson City (\$450 value)		X	X
Sponsor Logo and Link on Food Bank and CHOW websites (over 60,000 visitors)	X		
Sponsor Name Listed on Food Bank and CHOW websites (over 60,000 visitors)		X	X
Sponsor Name Posted on Food Bank and CHOW Facebook Pages & Twitter (over 5,300 followers)	X	X	
Sponsor Name included in Press Release Communications to Media	X	X	
Opportunity to Distribute or Display Sponsor Information at Awards Reception, Hosted at the Oakdale Mall for Event Participants, Sponsors, and Media	X	X	
Opportunity to Participate in Canstruction next year with a team (entry fee waived, \$100 value)	X	X	
Invitation to Attend Awards Reception & Recognition	X	X	X

Sponsorship Agreement and Payment due March 16th

Additional Sponsorship Benefits Include

- Establish Your Business as a Community Leader in the Fight Against Hunger.
- Inspire Other Businesses to Join You.
- Make a Difference in the Communities You Serve: 100% of Canstruction Donations will go towards hunger relief efforts in Broome County!
- Organization listed in Chamber Newsletter ad following the event.



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Sponsorship Opportunities

Please check which level of Sponsorship you wish to contribute:

- ☐ Gold Sponsor: \$2,500
- ☐ Silver Sponsor: \$1,000
- ☐ Supporting Sponsor: \$500
- ☐ Other Donation \$ _____

**All donations are tax deductible. A donation acknowledgement will be sent to you.*

Sponsor: _____

Address: _____

City, State, Zip: _____

Contact: _____

Phone: _____ Email: _____

Signature: _____ Date: _____

Please Make Checks Payable To: Food Bank of the Southern Tier

Mail To: Food Bank of the Southern Tier
attn: Katherine Strawser
388 Upper Oakwood Avenue
Elmira, NY 14903

For More Information: visit www.foodbankst.org/canstruction or contact Canstruction Chair

Kyle Nedlik via email BLI.canstruction@gmail.com **Sponsorship**

Agreement and Payment due: March 16th

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**Thank you
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Evan Hallas
Aeroseal Operations Manager

ehallas@taitem.com

Taitem Engineering, PC
110 South Albany Street
Ithaca, New York 14850

607.277.1118 x103

www.taitem.com



Dominick DeLucia
Project Engineer

ddelucia@taitem.com

Taitem Engineering, PC
110 South Albany Street
Ithaca, New York 14850

v 607.277.1118 x120
c 315.729.5545

www.taitem.com

Ryan Byrd
System Sales - Engineering Account Manager
Team Leader



Trane Commercial Systems

15 Technology Place
East Syracuse, NY 13057

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What Were They Thinking???



Just another beautiful install!

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

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



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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!

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



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TRAINING



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TRAINING



Get in-depth training for real-world HVAC&R challenges from ASHRAE in conjunction with the 2018 Canadian Mechanical & Plumbing Exposition (CMPX) in Toronto. ASHRAE will present two courses on ASHRAE Standard 90.1 including the new Save 35% while Complying with ASHRAE Standard 90.1-2013 course to practicing professionals in the HVAC&R industry.

The courses are structured to help participants achieve defined learning objectives, and each attendee receives a course workbook and an ASHRAE certificate of attendance. Courses will be held at the Metro Toronto Convention Centre in Toronto.

Wednesday, March 21, 2018

NEW! [Save 35% while Complying with ASHRAE Standard 90.1-2013](#)

Time: 9:00am – 12:00pm

Cost: \$184 USD / \$234 CAD (\$139 USD / \$177 CAD ASHRAE Member)

Course Summary: The 2013 version of ASHRAE Standard 90.1 is widely used by many state and government entities. Learn the background and development of ASHRAE Standard 90.1, its requirements and compliance paths, and how to understand and apply the requirements. Key updates for each of the major building systems will be discussed. This includes the HVAC system, lighting system, building envelope, service water heating, and power. You will learn key mandatory and prescriptive requirements applicable to each system, as well as whole-building compliance options. Case studies and in-class exercises are included as appendices to the classroom presentation. [Read More](#)

Instructors: [McHenry Wallace, P.E., Member ASHRAE, LEED® AP](#)
[Joseph Deringer, AIA, Member ASHRAE, LEED® AP](#)

Thursday, March 22, 2018

[Save Over 40% Using Appendix G of ASHRAE Standard 90.1-2016](#)

Time: 9:00am – 12:00pm

Cost: \$184 USD / \$234 CAD (\$139 USD / \$177 CAD ASHRAE Member)

Course Summary: Learn how to use the innovative new performance rating method in Appendix G of ASHRAE Standard 90.1-2016. Learn to apply the new rules and procedures via whole-building energy simulations to demonstrate that a building has much better energy performance than a building that just meets the requirements of ASHRAE Standard 90.1-2016. See how Appendix G-2016 can be used to show compliance with ASHRAE Standard 90.1-2016; this is the first time Appendix G has been usable in this manner. [Read More](#)

Instructors: [McHenry Wallace, P.E., Member ASHRAE, LEED® AP](#)
[Joseph Deringer, AIA, Member ASHRAE, LEED® AP](#)



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

TRAINING



FEBRUARY 18-24, 2018

2018 ENGINEERS WEEK BANQUET

Tuesday, February 20, 2018

LOCATION: Holiday Inn Arena, 2 Hawley Street, Binghamton, NY

TIME: 5:30 – 6:30 PM Cash Bar & Poster Presentations

6:30 – 7:30 PM Dinner

7:30 PM Engineer of the Year Award, Scholarships and Speaker

POSTER PRESENTATION/CELEBRATION: Your Chance to Participate. Each Individual or Company is invited to bring a poster and an easel to “show-off” a completed project that was successful. We will place them in the room for viewing during our arrival time.

AWARDS: SUNY Broome, Tompkins Cortland Community College, and Binghamton University NYSSPE Scholarship Recipients Recognition

SUBJECT & SPEAKER: Joshua Bernard and Tice Lerner from LUMA Projection Arts Festival will talk about projecting precision images on buildings.

NAME	AFFILIATION/COMPANY	EMAIL FOR CONTACT

Number of Persons for:

- | | | |
|----------------------------|----------------------------------|--------------------------|
| 1) _____ Prime Rib of Beef | _____ @ \$40.00* each = \$_____. | *Students reduce |
| 2) _____ Grilled Salmon | _____ @ \$40.00* each = \$_____. | Dinner prices by \$15.00 |
| 3) _____ Chicken Piccata | _____ @ \$35.00* each = \$_____. | |
| 4) _____ Pasta a la Vodka | _____ @ \$35.00* each = \$_____. | |

Make Checks payable to **Broome Chapter NYSSPE**. Mail to: Engineers Week Dinner, c/o Wonjune Hong, 416 Jodie Dr., Vestal, NY 13850. If you need information, you may email Wonjune.hong@lmco.com. Sorry no refunds after February 16.



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

INDUSTRY ARTICLE

Governor Cuomo Announces Launch of RetrofitNY to Bring Multifamily Affordable Housing Units to or Near Net-Zero Energy Consumption

www.governor.ny.gov

By Press Office of NYS Governor Feb. 6, 2017

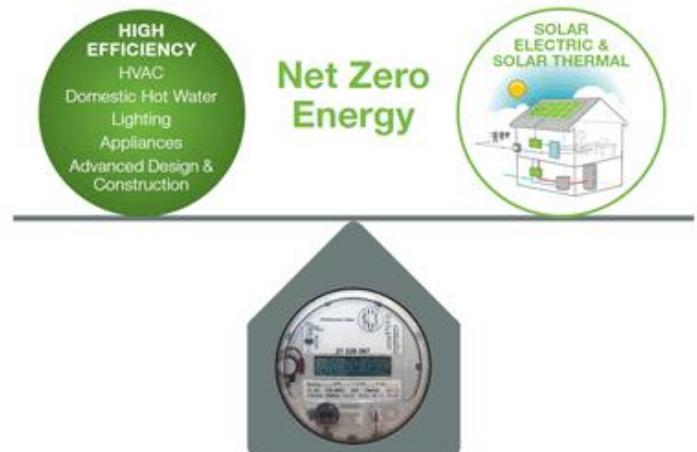
Governor Andrew M. Cuomo today launched RetrofitNY, a first-of-its-kind program in the U.S. that is intended to create standardized, scalable energy-efficient retrofit solutions that can be replicated throughout the entire housing industry. The program will further the State's greenhouse gas emission reductions and climate goals by renovating multifamily affordable housing properties to dramatically improve their energy performance. RetrofitNY will help support the Governor's goal to reduce greenhouse gas emissions 40 percent by 2030.

"In every corner of New York, we have made significant progress in reducing emissions and investing in clean energy," **Governor Cuomo said.** "With RetrofitNY, we are furthering our efforts to protect the environment, build stronger more sustainable housing, and create healthier, greener communities all across this great state."

Under RetrofitNY, a \$30 million program funded over 10 years and made available through the State's Clean Energy Fund, the state is working aggressively to bring a substantial portion of New York's affordable housing units to or near net-zero energy over the next decade. Net-zero energy buildings consume no more energy, on an annual basis, than they produce onsite through renewable energy technologies like solar panels or other distributed energy resources. These retrofit solutions will also serve as an important tool to help preserve a large number of affordable housing units throughout the State, and improve their residents' health, comfort and quality of life.

Richard Kauffman, Chairman of Energy and Finance for New York State, said, "Reducing greenhouse gas emissions from New York's building stock will require scaling up clean energy technologies that could then be used in a greater number of buildings throughout the State. RetrofitNY is an exciting way to engage the private sector to help develop these innovative projects in a cost-effective manner."

The New York State Energy Research and Development Authority has issued a [Request for Proposals](#) seeking experienced design/construction teams to develop very high performance retrofit solutions for up to six multifamily affordable housing buildings across the State. Design solutions will be required to exclude the use of fossil fuels onsite, demonstrate they are cost-effective, be standardized, scalable and aesthetically pleasing.





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

INDUSTRY ARTICLE

Governor Cuomo Announces Launch of RetrofitNY to Bring Multifamily Affordable Housing Units to or Near Net-Zero Energy Consumption (Cont.)

This RFP is the first step in a process that NYSEDA anticipates will stimulate a new industry capable of delivering net zero retrofits to residential building stock at scale. The retrofit solutions developed through this initiative will serve as a national model for cost-effective and highly energy-efficient multifamily housing renovations.

As part of the RFP, NYSEDA will establish separate scoring committees to qualify solution-provider teams to design high-performance retrofit solutions, and to qualify buildings to serve as models for those prototype retrofit designs. Six awards of \$75,000 will be given to qualified solution-provider teams to design net-zero (or near net-zero) energy retrofits for six selected prototype buildings.

Alicia Barton, NYSEDA President and CEO said, "RetrofitNY can lead to innovations that can be adopted widely and will be essential in meeting Governor Cuomo's ambitious clean energy goals. Net-zero energy buildings for affordable housing are a win-win not only our most vulnerable population but also for the environment."

To be qualified, buildings must be affordable housing multifamily buildings no taller than seven stories for which a substantial rehabilitation or comparable work is already being planned within the next 12-24 months. Buildings for which a retrofit design is completed may also be eligible for project funding through a separate solicitation NYSEDA plans to issue later this year for the construction and implementation of the prototype retrofits.

Solution-provider teams qualified through this RFP will also be eligible to respond to a separate RFP expected to be issued in Spring of 2018 by the New York City Housing Authority to address one or more NYCHA-owned buildings as part of RetrofitNY.

Assemblymember Steven Cymbrowitz, Assembly Chair, Committee on Housing, said, "RetrofitNY is a win-win initiative that will create much-needed affordable housing opportunities, cut energy costs, and reduce the state's greenhouse gas emissions. It is a highly replicable model that has the potential to benefit families across the nation and I am pleased that New York is taking the lead in implementing it."

RetrofitNY is based on a successful European program, Energiesprong, which has brought over 2,000 units of affordable housing to net-zero energy with 20,000 more units in the pipeline. The program was launched in the Netherlands in 2013 and is now being implemented in France, the United Kingdom, and Germany. New York is the first jurisdiction in North America to launch an initiative modeled after Energiesprong's innovative and comprehensive market-based approach.

For more information, please visit the NYSEDA [website](#).

"Governor Cuomo Announces Launch of RetrofitNY to Bring Multifamily Affordable Housing Units to or Near Net-Zero Energy Consumption" *New York State Governor Andrew M. Cuomo*. Press Office of the New York State Governor, 6 Feb. 2018. Web. 15 Feb. 2018. <<https://www.governor.ny.gov/news/governor-cuomo-announces-launch-retrofitny-bring-multifamily-affordable-housing-units-or-near>>.

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f 315.474.0751
c 607.206.9562
toll free 877.513.6249

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Syracuse, NY 13204
slance@horizon-engineering.com



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

Twin Tiers Chapter– Employment Opportunities



TETRA TECH

MECHANICAL ENGINEER

Tetra Tech is a leading provider of consulting, engineering, and technical services worldwide. Our reputation rests on the technical expertise and dedication of our employees—16,000 people working together across disciplines and time zones to provide smart, sustainable solutions for challenging projects. We are proud to be home to leading technical experts in water, environment, infrastructure, resource management, energy, and international development. Tetra Tech combines the resources of a global, multibillion dollar company with local, client-focused delivery in 400 locations around the world. We offer competitive compensation and benefits and are searching for innovative people to join our teams.

Tetra Tech A&E provides planning, design and construction phase services for a wide range of building types and clients, from K-12 and higher education facilities in New York to facilities supporting governments worldwide. We currently seek a Mechanical Engineer to work out of our Ithaca NY or Albany NY office.

Responsibilities include:

- Design of building mechanical systems (HVAC) including appropriate system concepts, calculations, energy modeling, layout, sizing, selections, specifications and coordination
- Perform site visits of existing mechanical systems for evaluation or to inspect work in progress or completed
- Review and respond to team member on project design work, RFIs, submittals, and other construction related documents and issues in a professional and timely manner
- Monitor and control project progress against scope, schedule, and budget
Attend client meetings and assist in marketing efforts

Requirements:

- Bachelor's degree in Mechanical Engineering, Mechanical Engineering Technology, or similar field with 8 years of experience designing building mechanical (HVAC) systems.
- Experience with Design of mechanical (HVAC) systems for educational facilities is desired.
- Licensed Professional Engineer (PE) or EIT and preparing to obtain professional licensure preferred.
- Proficient in AutoCAD and Revit/BIM with working knowledge of MS Office.
- Proficiency with building energy modeling concepts and software preferred.
- Knowledge of applicable codes and standards.
- Possesses and applies a broad knowledge of principles, practices and procedures to the completion of difficult assignments.
- Knowledge of and demonstrated interest in energy efficient solutions and designs.

If you are interested in this exciting opportunity apply on-line at: <http://www.tetratech.com/en/careers>

Tetra Tech is committed to creating a diverse environment and is proud to be an Equal Opportunity Employer. We invite resumes from all interested parties including women, minorities, veterans and persons with disabilities. Tetra Tech is a VEVRAA federal contractor and we request priority referral of veterans for available positions.

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

Twin Tiers Chapter– Employment Opportunities



TETRA TECH SENIOR MECHANICAL ENGINEER

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Tetra Tech A&E provides planning, design and construction phase services for a wide range of building types and clients, from K-12 and higher education facilities in New York to facilities supporting governments worldwide. We currently seek a Senior Mechanical Engineer to work out of our Ithaca NY, Albany NY, Farmingdale NY, or Marlborough, MA office.

Responsibilities include:

- Design of building mechanical systems (primarily HVAC) including appropriate system concepts, calculations, energy modeling, layout, sizing, selections, specifications and coordination
- Perform site visits of existing mechanical systems for evaluation or to inspect work in progress or completed
- Acts as lead engineer on projects and provides conceptual guidance to Mechanical Designers and Mechanical Engineers on wide range of projects.
- Provides consultation to professional co-workers. Mentors junior level department designers.
- Review and respond to team member on project design work, RFIs, submittals, and other construction related documents and issues in a professional and timely manner
- Monitor and control project progress against scope, schedule, and budget
- Attend client meetings and assist in marketing efforts

Requirements:

- Bachelor's degree in Mechanical Engineering, Mechanical Engineering Technology, or similar field with 15 years of experience designing building mechanical (HVAC) systems.
- Experience with design of mechanical (HVAC) systems for educational and federal facilities is desired.
- Licensed Professional Engineer (PE) in New York State, with ability to be licensed in other states as requested.
- Proficient in AutoCAD and Revit/BIM with working knowledge of MS Office.
- Proficiency with building energy modeling concepts and software preferred.
- Knowledge of applicable codes and standards.
- Possesses and applies a broad knowledge of principles, practices and procedures to the completion of difficult assignments.
- Knowledge of and demonstrated interest in energy efficient solutions and designs, and in LEED strategies and designs.

If you are interested in this exciting opportunity apply on-line at: <http://www.tetrattech.com/en/careers>



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Twin Tiers Chapter– Employment Opportunities



Senior Mechanical Engineer

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

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

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

Responsibilities:

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

Qualifications:

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

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

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

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

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

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

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

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

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



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

Twin Tiers Chapter– Employment Opportunities



Design Your Career

Senior Mechanical Engineer – Buildings

Your Opportunity:

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

Your Duties:

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

Your Capabilities and Credentials:

The successful candidate will possess:

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

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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 2018.
 - Cost to advertise for the 2018 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 2018

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 2018. 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.
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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