



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

Special points of interest:

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

ASHRAE 2016-2017



March Meeting

Student, YEA, and History Night
March 21, 2017

Presentations:

Geothermal Radiant Heating for Airfield Pavements

Michael Eckhardt, P.E., McFarland Johnson
Christopher Kopec, P.E., McFarland Johnson

HVAC Energy Savings - Optimized Compressors and Adiabatic Cooling

Michael Collins, Eagle Bay Refrigeration

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,

Just when we thought spring was around the corner.....we are buried in over a foot of snow!

What a wonderful meeting we had last month. Our Student Chapter gave an intriguing presentation summarizing their trip to the ASHRAE Winter Conference and we had a great turnout. Thank you to the Student Chapter Board and their fearless leader, Jason Gilbert, for presenting.

Our YEA and student members have been the focal point of this year, why stop now. Our YEA committee is hosting a YEA night of hockey with the Binghamton Senators. See the flyer in this months newsletter for more details. Thank you to Devin Shapley and Victoria Kramer for putting this together! This months meeting theme is also Student Night.

I can't express how excited and proud I am of our younger local involvement. Keep it up!

Hope to see you at the meeting and the game!

-Travis Fisher
Twin Tiers Chapter President

Chapter President



Travis R. Fisher
(607) 255-5608

[Email Me!](#)

2016-2017 Chapter Officers

President-Elect

Petros Papathomopoulos
(607) 723-9421

[Email Me!](#)



Vice President

Michael McGinnis
(607) 727-3168

[Email Me!](#)



Treasurer

Kyle Nedlik
(607) 321-6100

[Email Me!](#)



Secretary

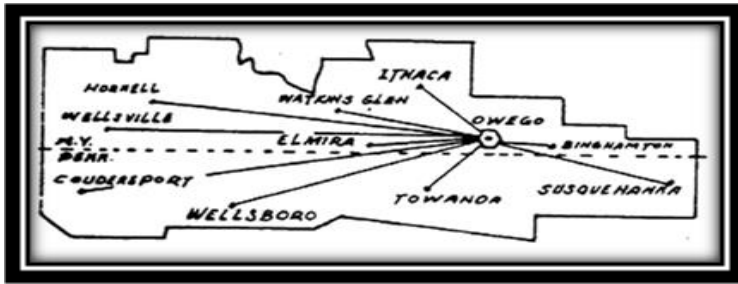
Devin Shapley
(607) 723-9421

[Email Me!](#)



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Twin Tiers Chapter

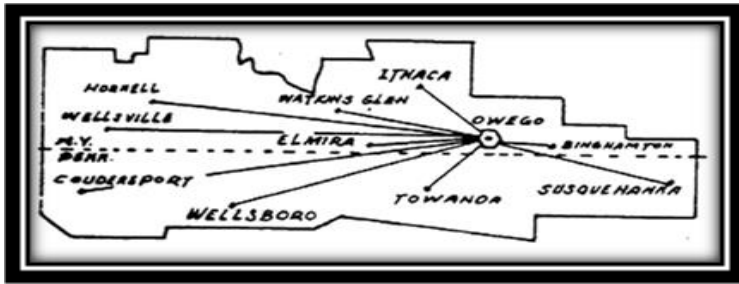
Presidential Award of Excellence (PAOE)

	Chapter Operations	Chapter Technology Transfer	Grassroots Government Activities	Historical	Membership Promotion	Research Promotion	Student Activities
MIN/PAR	600/1200	450/1050	500/650	100/300	500/800	800/1050	300/500
Current	735	1100	450	430	2210	690	920

POINTS CURRENT AS OF 3/09/2017

Chapter Committee Chairs

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



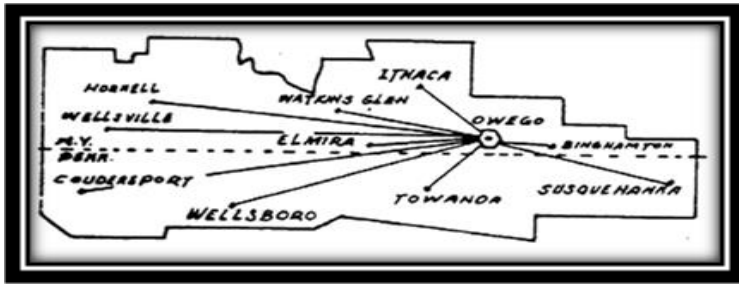
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Twin Tiers Chapter– Monthly Meeting Information

2016-2017 Meeting Dates:

Date:	Speaker	Tech Session Topic, Tour or Meeting Info	Attendance:
20-Sep	Andy Nice, Meier Supply Co.	VRF Training Center Tour and Properly Specifying VRF Presentation	21
18-Oct	Stan Kutin, Bell & Gossett	Advancements in Pumping & Motor Efficiency	23
15-Nov	Mark Casadevall, Ardagh Group Steven Walker, Ardagh Group	Tour of Ardagh Group LEED Canning Facility	23
20-Dec	Theodore Firnstein, Siemens	Green Lab Solutions (PDH) Theme: RP Night	20
17-Jan	R. Vijayakumar, Ph.D. ASHRAE Distinguished Lecturer	Basics of Cleanroom Design Themes: Past President, Membership Promotion, History	44
21-Feb	Michael McGinnis, P.E., Monika Furch, R.A., David Lewis, P.E.	Tour: Smart Energy Building & Center of Excellence Topic: Lithium Battery Research Facility Theme: Student Night	48
21-Mar	Michael Eckhardt, P.E. Christopher Kopec, P.E. Michael Collins	Geothermal Radiant Heating for Airfield Pavement HVAC Energy Savings—Optimized Compressors and Adiabatic Cooling Themes: Student Night, YEA, History	
18-Apr	Multiple/TBD	Spring Engineering Symposium—Daytime	
16-May	Mike Gavin, REHAU Inc.	Snow and Ice Melting Systems (PDH) Themes: Refrigeration	
20-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 2016-2017

H. O. WARD SCHOLARSHIP

Date: March 1, 2017

The deadline for the scholarship applications has now passed
We have received seven applications.

The scholarships to be awarded include: one at \$1,000 and two at \$500.
The Board Scholarship Committee is reviewing the applications.

I am pleased to announce the following applicants who are being considered
for the three scholarships:

- Justin Bopp
- Charlie Grochowiak
- Melissa Gross
- George Pappas
- Ryan Phillips
- Cyrus Vakili
- Doris Wong

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Cell: 315-952-5056 Email: dbrosnan@mcsmms.com Web: www.mcsmms.com



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



Joseph Parisella, PE, CPD
Sr. Mechanical Engineer

direct: 607.338.1284
email: jparisella@popligroup.com

main: 607.238.5888
fax: 607.338.1288

45 Lewis Street • Binghamton, NY 13901



Richard R. Sanguinito, PE, LEED AP
Vice President

o 607-231-6605
c 607-222-3509
f 607-231-6650

860 Hooper Road
Endwell, NY 13760

rsanguinito@delta-eas.com

www.delta-eas.com

Glenn Roberts
HVAC Sales Engineer - Equipment and Controls



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Trane
15 Technology Place
East Syracuse, NY 13057 US
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Fax (315) 433-9120
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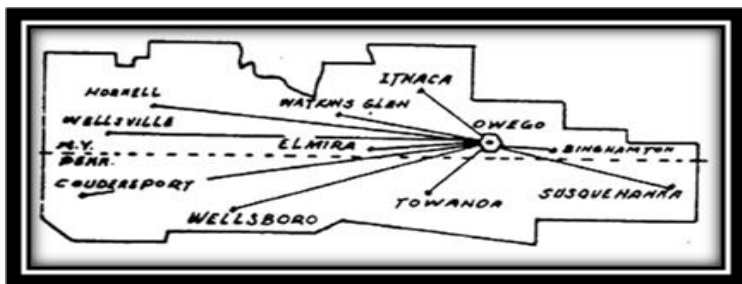
Ryan Byrd
System Sales - Engineering Account Manager
Team Leader



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15 Technology Place
East Syracuse, NY 13057
315.234.1500 Office 315.433.9120 Fax
rjbyrd@trane.com
www.trane.com





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

YOUNG ENGINEERS IN ASHRAE *NIGHT WITH THE B-SENS*



**SATURDAY
MARCH 25th
7:05 P.M.**

VS.



**JOIN US FOR A SENATORS GAME AT THE FLOYD L. MAINES VETERANS MEMORIAL
ARENA IN DOWNTOWN BINGHAMTON!**

TICKETS:

ASHRAE MEMBERS—\$8

NON-MEMBERS AND GUESTS—\$15

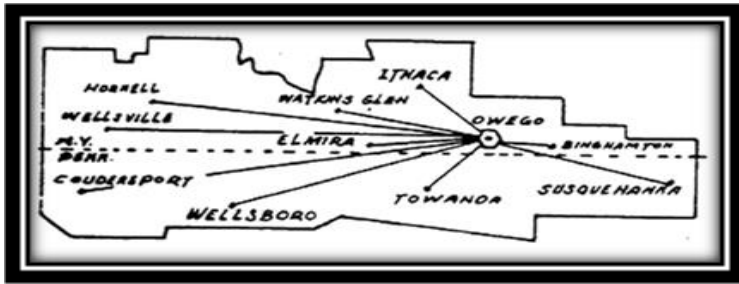
TICKETS MUST BE PURCHASED IN ADVANCE TO SIT WITH THE GROUP

PAYMENT DUE BY 3/17

PURCHASE VIA PAYPAL AT TWINTIERS.ASHRAECHAPTERS.ORG

CONTACT VICTORIA KRAMER WITH QUESTIONS : VICTORIA.KRAMER@STANTEC.COM

FACILITY TOUR DETAILS TO FOLLOW



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

History Report - February Meeting Summary



By
Rick Sanguinito Historian 2016-2017

February Meeting Summary

Date: February 21, 2017

The February 2017 meeting was a tour at Binghamton university Center of Excellence to visit the "Driest room on earth" with a relative humidity of less than 1% and a dew point around -40 deg. The presentation was provided by Mike McGinnis, Jason Gilbert, David Lewis and Monika Furch.

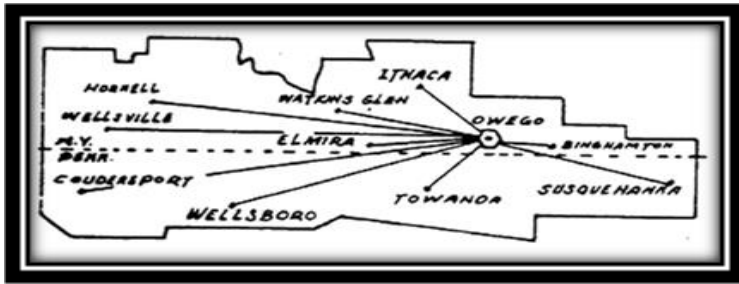
The meeting started out with the Binghamton University Student Chapter giving a presentation of their recent trip to the ASHARE Winter Meeting. The following students provide an account of their time at the winter meeting: Melissa Gross, Doris Wong, Ibrahima Balde Justin Bopp

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



Adam Keller, Andrew Nice, Bill Fletcher, Blair Dury, Brian Bielawa, Brian McKenna, Charles Howe, Charlie Grochowiak, Chris Kopec, Chris Wolak, Christopher Hackett, Clinton Hastings, David Duffett, David Lewis, Devin Shapley, Dimitris Konstantakos, Doris Wong, Eric LePore, Ethan Papathomopoulos, Gamal Alsaadi, Glenn Roberts, Ibrahima Balde, Jason Gilbert, Jining Zhang, Joe O'Hara, Joe Parisella, John Wake, Justin Bopp, Katherine Rossi, Kyle Nedlik, Lauren Boston, Lowic Schuharara, Lucas Panebianco, Makayla Jackson, Matthew Lloyd, Melissa Gross, Michael Collins, Mike Colwell, Mike McGinnis, Monika Furch, Monika Nowak, Patrick Heikkila, Peter Candidus, Petros Papathomopoulos, Rick Alabaugh, Rick Lopez, Rick Sanguinito, Robert Browne, Tom Snyder, Travis Fisher, and Victor Li.

PHOTO 1 - BOARD MEETING



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

History Report - February Meeting Summary



PHOTO 2 - Meeting Presentation

PHOTO 3 - Student Chapter presenting on the winter conference

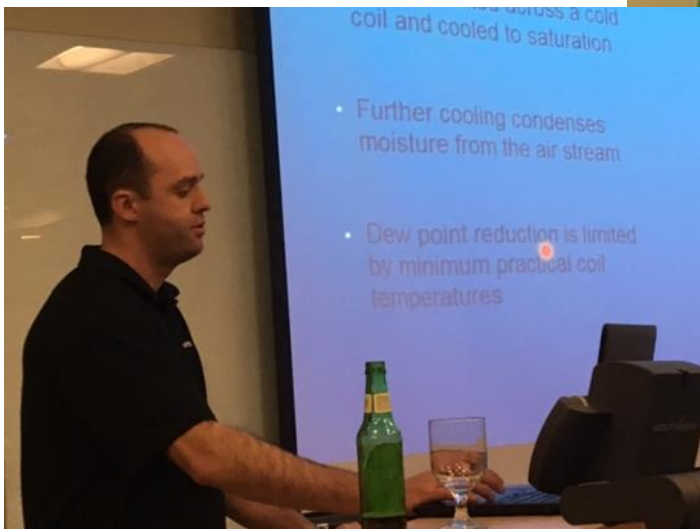
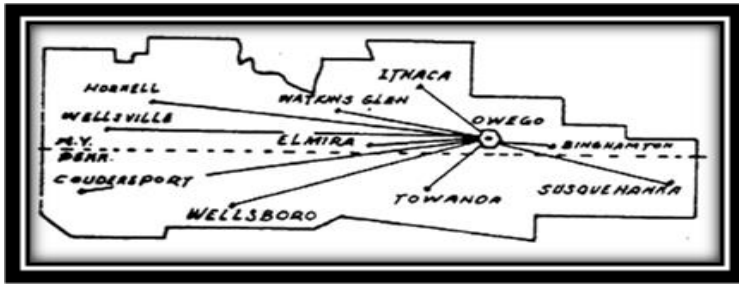


PHOTO 4 - Mike McGinnis presenting on the dry air system



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

March Meeting Announcement

March 21, 2017

Student Night, YEA Night, & History Night!!!

March Chapter Meeting

Presentation #1:

Geothermal Radiant Heating for Airfield Pavements

Description:

Michael Eckhardt from McFarland Johnson will review this award winning project, which made Binghamton the first airport in the country to use a geothermal system to heat an aircraft parking ramp. The \$1.25 million dollar project is expected to result in the avoidance of 103 tons of greenhouse gas emissions annually. The project was a collaborative effort between Binghamton University students, led by Professor William Ziegler, Greater Binghamton Airport, McFarland Johnson, Federal Aviation Administration, Southern Tier Economic Partnership and NYSERDA.

Presenters:

Michael Eckhardt, P.E. - Senior Engineer, McFarland Johnson

Christopher Kopec, P.E. - Facilities Group Manager, McFarland Johnson

Presentation #2:

HVAC Energy Savings—Optimized Compressors and Adiabatic Cooling

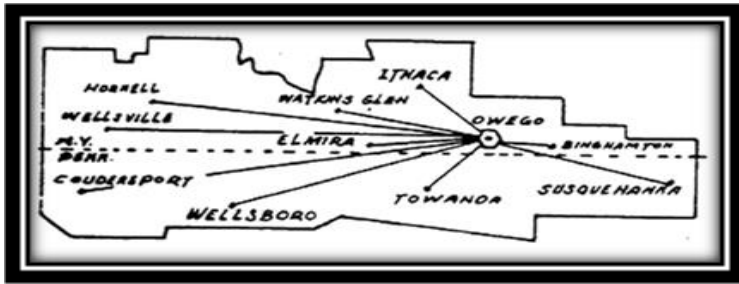
Description:

The presentation discusses opportunities to optimize HVAC components for specific climates/applications through the use of optimized compressors and condensers. We will review compressor types and operation, advantages / disadvantages of their key features & impact of those changes on energy usage. Review operation and impact of adiabatic cooling.

Presenter:

Michael Collins, President, Eagle Bay Refrigeration

Michael earned his BS degree in Mechanical Engineering from the University of Buffalo and has over 25 years of experience in the HVAC and Refrigeration industry, twelve of which as an application engineer with Carlyle Compressor Company, four years as an Account Manager and Application Engineer with BITZER US and four years as the Application Engineering Manager for Carlyle Compressor. Michael now owns and operates Eagle Bay Refrigeration, which provides custom HVAC/R equipment and engineering consulting services.



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

March Meeting Announcement

March 21, 2017

March Chapter Meeting

- DATE:** Tuesday, March 21th, 2017
- TIME:** 5:30PM
- MEETING LOCATION:** Binghamton University - Events Center
Vestal, NY 13850
- SPECIAL EVENT:** Student Night, YEA Night, & History Night
- SPEAKERS:** Michael Eckhardt, P.E., Senior Engineer, McFarland Johnson
Christopher Kopec, P.E., Facilities Group Manager, McFarland Johnson
Michael Collins, President, Eagle Bay Refrigeration
- AGENDA:** 5:30 – 6:00 – Presentation #1: Geothermal Radiant Heating for Airfield Pavements
6:00 – 6:30 – Brief Chapter Meeting and Dinner
6:30 – 7:30 – Presentation #2: HVAC Energy Savings - Optimized Compressors and Adiabatic Cooling
- MENU:** Buffet Dinner
- REGISTRATION:** Register online at <http://twintiers.ashraechapters.org/> (Under the "Programs" Tab)
\$25.00 Early Registration (By 3/17/2017)
\$30.00 (After 3/17/2017)
- CONTACT:** Petros Papathomopoulos
(Please call, text, or email me at below with any questions or if you get lost)
E: Email Me!
C: (607) 725-6900

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2017 Business Cards



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

Chris Devins
Sales Engineer



15 Technology Place
Syracuse, NY 13057
Office (315) 234-1501 Cell (315) 313-3848
Fax (315) 433-9120
chris.devins@trane.com
www.trane.com



Shey Doane
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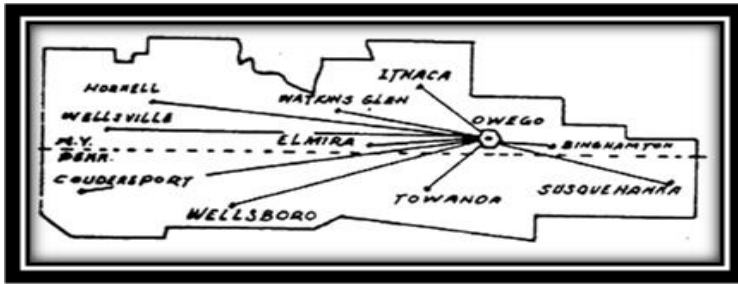
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www.camfil.com



Joe O'Hara, NCT
Branch Sales Manager



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

Annual Spring Symposium and Professional Development Seminar

Tuesday, April 18, 2016, 8:30 A.M. – 5:00 P.M.

Holiday Inn Binghamton: 2 Hawley St, Binghamton, NY 13901

EARN UP TO 7.5 Professional DEVELOPMENT HOURS!

The ASHRAE Twin Tiers Chapter 2017 Spring Symposium provides a local opportunity to bring together practicing professionals, engineers, academics, contractors, owners and others to discuss with respected expert's 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, Holiday Inn
Includes: Coffee, Muffins, & Fresh Fruit

8:30-10:00 A.M.

Binghamton Room	Endicott Room
"Penthouse Mechanical Rooms, Why are They Seismically a Challenge?" 1.5 PDH James Tauby, Mason Industries	"VRF & Hydronic Systems: A Strategic Comparison" 1.5 PDH Kyle DelPiano, Bell & Gossett

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

10:20-11:50 A.M.

Binghamton Room	Endicott Room
"How to Cool a Computer Room Efficiently" 1.5 PDH David Smith., Vertiv	"Top 10 Things you REALLY Need to Know...Energy Code" 1.5 PDH Michael DeWein, Leidos Engineering

12:00-1:40 P.M. Lunch & Presentation Followed by the Monthly Chapter Meeting – Johnson City Room
Lecturer: Robin Kemper, Zurich Services Corp
Presentation: "A Discussion of Engineering Ethics Using Case Studies"

1:40-3:10 P.M.

Binghamton Room	Endicott Room
"Reducing AHU Energy through Optimized Fan Array Operation" 1.5 PDH Peter Fung, Climate Craft	"Laboratory Design Fundamentals" 1.5 PDH Don MacDonald, Phoenix Controls

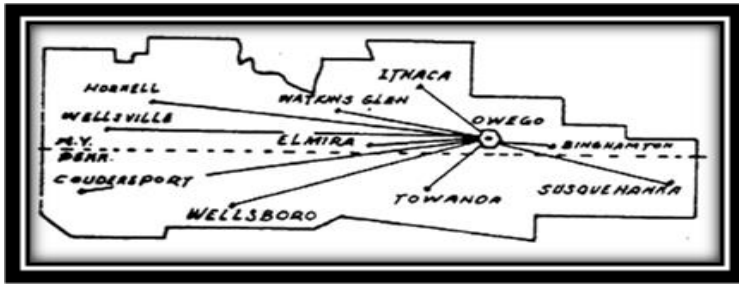
3:10-3:30 P.M. Afternoon Break – Foyer
Includes: Soft Drinks & Snacks

3:30-5:00 P.M.

Binghamton Room	Endicott Room
"Open Protocols for BAS Controls" 1.5 PDH Theodore Firnstein, Siemens Industry	"VRF Overview and Water Source Systems" 1.5 PDH Derrick Day, Mitsubishi

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

SIGN UP ONLINE @ <http://twintiers.ashraechapters.org/symposium2017.html>



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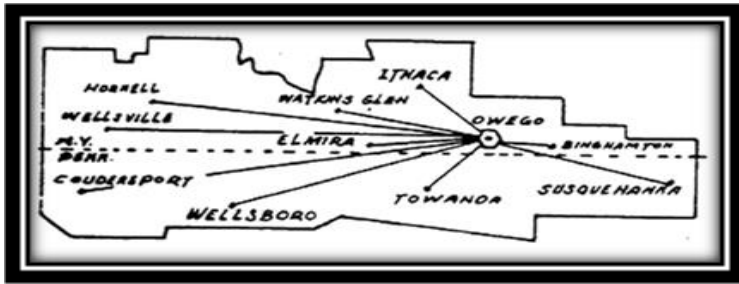
Twin Tiers Annual Golf Tournament!



Annual Golf Tournament and Clambake

The date for the annual golf tournament and clambake is **Tuesday, June 20.** With the closing of Vestal Hill Country Club, the event is being moved to a new location (our third in four years). 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 clams per person, thin sliced ribeye steak sandwiches with sautéed onions/peppers/mushrooms, 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.



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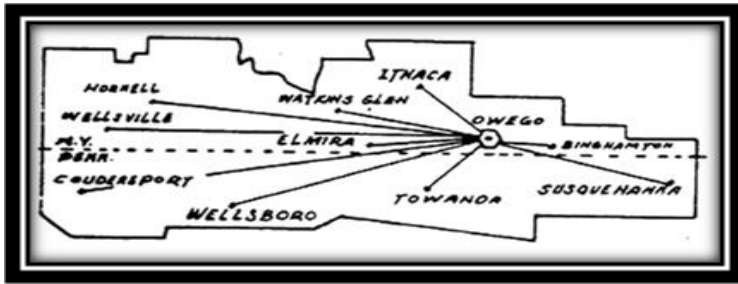
Binghamton University's Student Chapter

The Binghamton University student branch of ASHRAE wants to connect our students to industry through a few events planned for the coming months. If you are interested in participating in any of these events, please email us at BUASHRAE@gmail.com. We are looking for speakers to come to our meetings and talk to our members about their personal experience in industry, whether that's as a salesman, engineer, or any other HVAC related profession.

We are also looking to hold an HVAC career fair at Binghamton University in the spring. If your company is looking to hire new graduates, please consider participating. We have many graduating mechanical engineers who are looking to get hired.

Again, if you or your company is interested in participating please email us at BUASHRAE@gmail.com. Thank you!

From,
Binghamton University ASHRAE Student Branch



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

Twin Tiers Chapter – February BOG Meeting Minutes

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

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

Board of Governors Agenda

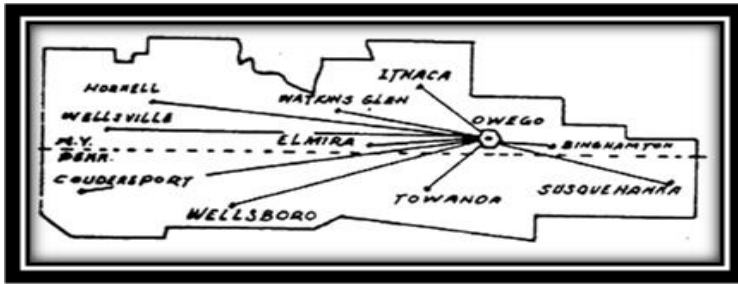
Date: Tuesday 02/21/2017 @ 4:00 PM

Location: Binghamton University, New Energy R&D Building, Binghamton, NY

MEETING MINUTES

The meeting was called to order at: 4:11 pm

- Call to Order and Attendance:
Attendance: Travis Fisher, Devin Shapley, Mike McGinnis, Kyle Nedlick, Andy Nice, Jason Gilbert, Rick Sanguinito, Adam Keller, Chris Wolak, Petros Papathomopoulos, Glen Roberts
- General Announcements – First order of business, Student ActivitiesASHRAE Conf. trip went well
 - No theme night this evening – Student Night
- Treasurer's Report – Kyle
 - M&T:
 - PayPal:
 - H.O. Ward:
 - William & Joan Albern:
 - Audit: Rick/Jason to indicate date for Audit review Treasury Report due July, Audit in August
 - Student Chapter – Jason received \$1000 grant to go to student chapter
 - Budget – Student Chapter must finish year with minimum of year start balance.
 - Thompkins – Still working on online access. Travis still needs to send back paperwork. We need to send a new Corporate Resolution, need to remove Doug if he is on there.
 - Any Receipts or Open Items –
Past presidents meeting last month was huge success
- CTC – Mike/Petros
 - Spring Symposium – All speakers lined up. Getting PDHs approved
 - Golf and Clambake – Will be at Links at Hiawatha, pricing to be same as last year.
 - Monthly Meetings –
 - Looks like the rest of the year is planned out, great job Petros. May meeting might move.
 - March Meeting
 - Determine location for snow melt installation tour.



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

Twin Tiers Chapter– February BOG Meeting Minutes

- YEA – Devin/Victoria
 - Update on Binghamton Senators Hockey game on March 25th – Tickets are \$17.
 - Looking to possibly have a tour with hockey night or social hour before.
 - ASHRAE will cover \$7 of ticket cost
 - Must buy ticket through paypal on website
 - Flyer to be set up and sent out

- Membership Promotion – Chris
 - Feedback for meeting cards. -2 used.

- PAOE Responsibility – Travis Fisher
 - Only areas not above PAR are Chapter Operations, Grassroots, and RP.

▶ Chapter Operations	Par: 1200	Min Points: 600	Total Points: 835
▶ Chapter Technology Transfer	Par: 1050	Min Points: 450	Total Points: 1100
▶ Grassroots Government Advocacy	Par: 650	Min Points: 500	Total Points: 450
▶ Historical Criteria	Par: 300	Min Points: 100	Total Points: 330
▶ Membership Promotion	Par: 800	Min Points: 500	Total Points: 1105
▶ RP	Par: 1050	Min Points: 800	Total Points: 690
▶ Student Activities	Par: 500	Min Points: 300	Total Points: 920

- Student Activities – Jason Gilbert
 - Student Scholarships: Jason/Rick – many applications received. To be reviewed and voted on at next months BOG.
 - Jason would like to reimburse membership fees for students who are successful chapter officers. Kyle, were reimbursements sent?
 - Establish date for voting, selection, and presentation.
 - Update from Winter Conference -
 - Member Shirts - Andy
 - Shirts will be given to members who are attending the CRC & Members with attend ½ of the Meetings (4 meetings).
 - Current free shirt count: 17
- Research Promotion – Glenn Roberts
 - PAOE
 - Updates?
- New Business

Meeting adjourned at 4:52pm

Motioned: Devin

Second: Andy

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Andrew Nice

Commercial HVAC Sales Engineer
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Conklin, NY 13748

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ANice@MeierSupply.com



Adam Keller
Sales Engineer

315-487-8791

Fax: 315-487-6179

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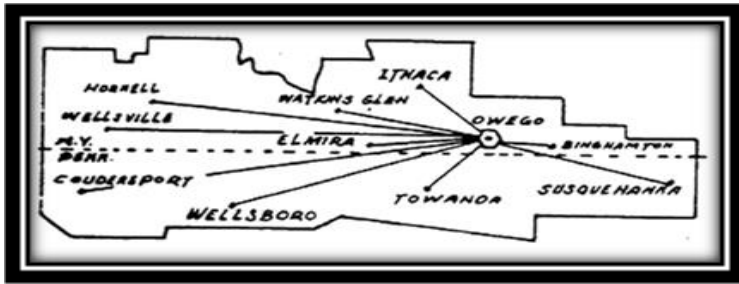
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What is Canstruction®

The Broome Leadership Institute (BLI) Alumni Association Board will host the fourth annual **Canstruction of the Southern Tier** event in Broome County from April 23rd - 30th, 2017 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.

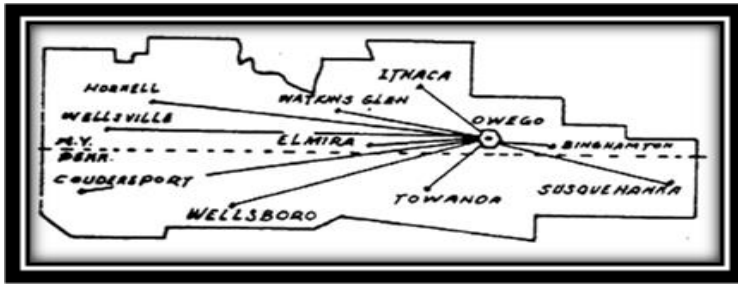
How Will Canstruction of the Southern Tier Benefit Broome County?

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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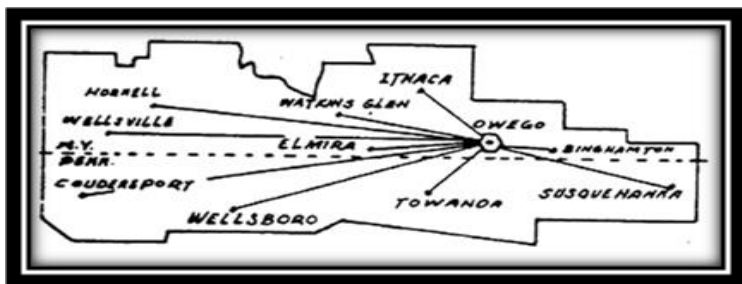
Sponsorship Opportunities

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

For more information on this event and how to sponsor please visit us at
<https://www.foodbankst.org/canstruction>

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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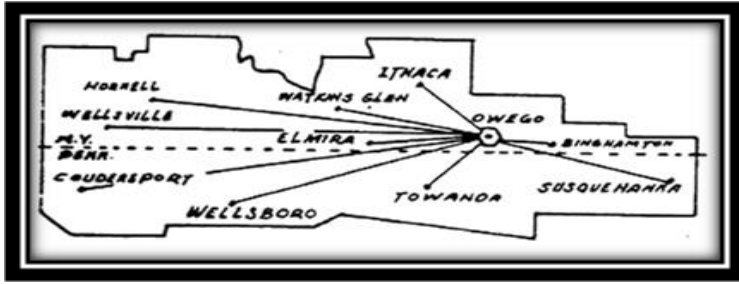
What Were They Thinking???



Artistic Trapping

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!**

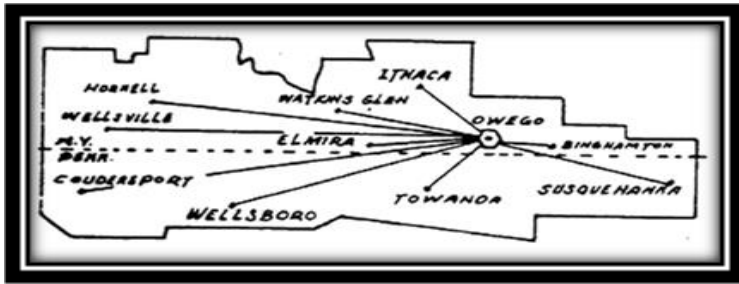
As a licensed professional in New York State, it is your professional responsibility to know the legal and ethical requirements governing the practice of your profession and to be alert to changes in those requirements. The New York State Board for Engineering and Land Surveying, in an effort to help 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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The above websites offer free online courses that are approved for credit!



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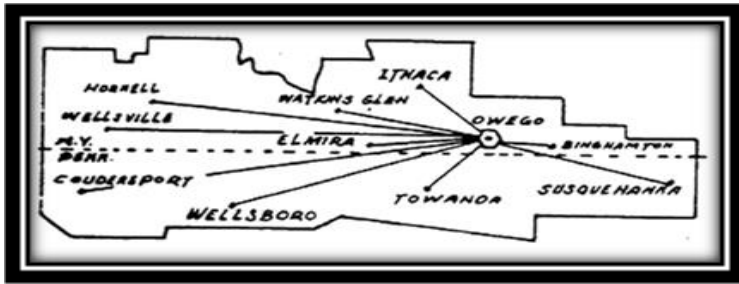
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One-part course (3 hours) \$284 (\$219 ASHRAE Member) — — — Two-part course (6 hours) \$484 (\$359 ASHRAE Member)

Basics of High-Performance Building Design

Wednesday, February 8, 2017 – 1:00 p.m. to 4:00 p.m.

Designing Toward Net-Zero Energy Commercial Buildings

Tuesday, February 14, 2017 – 1:00 p.m. to 4:00 p.m.

ASHRAE Guideline 0: The Commissioning Process

Tuesday, February 21, 2017 – 1:00 p.m. to 4:00 p.m.

Commissioning Process & ASHRAE Standard 202

Monday, February 27, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Fundamental Requirements of Standard 62.1-2016

Thursday, March 9, 2017 – 1:00 p.m. to 4:00 p.m.

Commissioning Process in New and Existing Buildings

Part I: Monday, March 13, 2017 – 1:00 p.m. to 4:00 p.m.

Part II: Wednesday, March 15, 2017 – 1:00 p.m. to 4:00 p.m.

Design of Affordable & Efficient Ground Source Heat Pump Systems

Wednesday, March 29, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016: Envelope/Lighting

Wednesday, April 5, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016: HVAC/Mechanical

Tuesday, April 11, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016: Appendix G

Tuesday, April 18, 2017 – 1:00 p.m. to 4:00 p.m.

Air-to-Air Energy Recovery Fundamentals

Wednesday, May 3, 2017 – 1:00 p.m. to 4:00 p.m.

Air-to-Air Energy Recovery Applications: Best Practices

Tuesday, May 9, 2017 – 1:00 p.m. to 4:00 p.m.

Humidity Control: Basic Principles, Loads and Equipment

Tuesday, June 13, 2017 – 1:00 p.m. to 4:00 p.m.

Humidity Control: Applications, Control Levels and Mold Avoidance

Tuesday, June 20, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! New ASHRAE-Classified Refrigerants to Meet

Society's Changing Needs

Tuesday, July 11, 2017 – 1:00 p.m. to 4:00 p.m.

Advanced High-Performance Building Design

Wednesday, August 9, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Fundamental Requirements of Standard 62.1-2016

Wednesday, September 6, 2017 – 1:00 p.m. to 4:00 p.m.

Designing High-Performance Healthcare HVAC Systems

Tuesday, September 19, 2017 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond

Tuesday, October 10, 2017 – 1:00 p.m. to 4:00 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems

Monday, October 16, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016

Part I: Wednesday, November 1, 2017 – 1:00 p.m. to 4:00 p.m.

Part II: Tuesday, November 7, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! New ASHRAE-Classified Refrigerants to Meet

Society's Changing Needs

Tuesday, December 5, 2017 – 1:00 p.m. to 4:00 p.m.

ASHRAE HVAC Design Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Dallas • Doha • Hartford • Toronto

HVAC Design: Level I – Essentials - Registration is \$1,264 (\$1,009 ASHRAE Member)

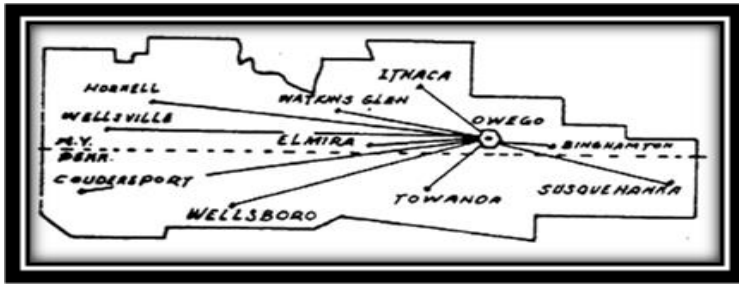
Gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II – Applications - Registration is \$854 (\$699 ASHRAE Member)

HVAC Design: Level II — Applications provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit www.ashrae.org/hvactraining to register and learn how your Chapter can earn PAOE points.

Contact Karen Murray (kmurray@ashrae.org) to discuss scheduling ASHRAE HVAC Training in your Chapter area.



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

INDUSTRY ARTICLE

Governor Cuomo Announces Newstead Ranch Inc. to Expand and Create More Than 50 New Jobs in the Finger Lakes

www.governor.ny.gov

By Press Office of NYS Governor Mar. 9, 2017

Governor Andrew M. Cuomo announced today that Clarence-based Newstead Ranch Inc. is expanding operations at two of its egg farms in the Finger Lakes region. The growth and remodeling efforts at Newstead Ranch's Genesee and Wayne County properties are expected to create up to 55 new jobs over the next five years.

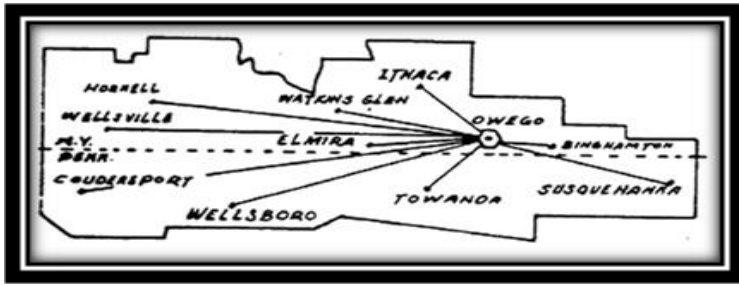
"New York's farmers are the backbone of our economy, and the expansion of Newstead Ranch will create new jobs and support the growth of the Finger Lakes' vital agriculture sector," **Governor Cuomo said.** "Our investments in promising farms and businesses lay the groundwork for future job creation and economic growth across the entire region as we continue to move the Finger Lakes Forward."



Newstead Ranch Inc. is a fourth generation family owned egg farm with approximately 1.9 million laying hens. Started in 1924, they now market over 47 million dozen eggs annually to quality focused customers throughout the region. Egg production is based at three sites, the original farm located in Clarence, a second farm in Wolcott, and an organic egg farm located in Alabama in Genesee County.

Michael Kreher with Newstead Ranch said, "We appreciate the governor's support of agriculture in our region. The rapid transition to cage free egg production over the next eight years to meet commitments by supermarkets, restaurants and food service companies necessitates a tremendous amount of investment by our family in new buildings and equipment. Along with the cage free transition, we continue to see consumer preference shift to our organic eggs. This support will allow us to remain competitive as we continue to increase employment in our rural communities."





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

INDUSTRY ARTICLE

Governor Cuomo Announces Newstead Ranch Inc. to Expand and Create More Than 50 New Jobs in the Finger Lakes (Cont.)

The total cost of the renovations at the targeted facilities is almost \$64 million. State funding for project, which will come through Empire State Development, totals up to \$3 million. The Wayne County portion of this project uses funding from the state Economic Transformation Program, which promotes economic development initiatives in communities affected by the July 2014 closure of four state facilities, including the Butler Correctional Facility. Up to \$2.75 million of the state funding will come through the Economic Transformation and Excelsior Jobs programs in exchange for job commitments. Another \$250,000 will come through a capital grant. The project was also made possible through the support of both the Genesee and Wayne County Industrial Development Agencies.



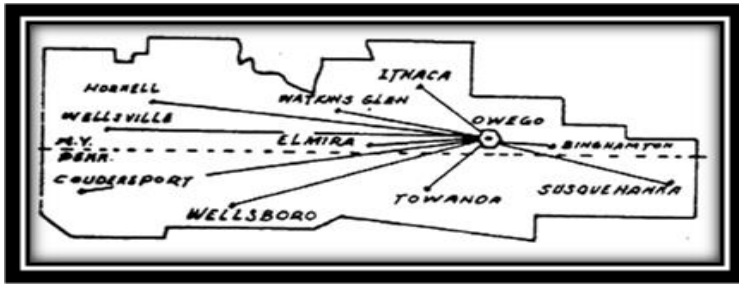
Empire State Development President, CEO & Commissioner Howard Zemsky said, "Supporting Upstate agribusiness is crucial to the state's overall economic success. Advancing innovative agricultural endeavors will translate to new jobs and strengthen the industry, which already serves as a cornerstone of the Upstate economy."

The project will span five years and will focus on future growth and expansion of the Genesee County organic egg farm and the transition to cage free egg production at the Wayne County Farm.

Sunrise Farm (Genesee County) – The organic Sunrise egg operation located in Alabama has grown with increased demand from consumers. The company plans to continue expansion on the farm with the construction of two pullet growing buildings, five laying henhouses and the buildout of the feed mill to support the additional volume of feed necessary. They also plan to build an egg processing facility, refrigerated storage and packaging supplies warehouse.

Wayne County Eggs (Wayne County)– The Wayne County operation is located in Wolcott. This project entails the construction of six new barns as part of the planned transition to cage free egg production. A manure processing facility will also be built to support the proposed growth.

"Governor Cuomo Announces Newstead Ranch Inc. to Expand and Create More Than 50 New Jobs in the Finger Lakes" *New York State Governor Andrew M. Cuomo*. Press Office of the New York State Governor, 9 Mar. 2017. Web. 13 Mar. 2017. <<https://www.governor.ny.gov/news/governor-cuomo-announces-newstead-ranch-inc-expand-and-create-more-50-new-jobs-finger-lakes>>.



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

INDUSTRY ARTICLE

Governor Cuomo Announces New York-Owned Ski Resorts to be Powered by 100 Percent Renewable Energy by 2030

www.governor.ny.gov

By Press Office of NYS Governor Mar. 3, 2017

Commitment Supports Governor Cuomo's Clean Energy Standard, which requires that 50 Percent of the State's Electricity Come from Renewable Energy Sources by 2030

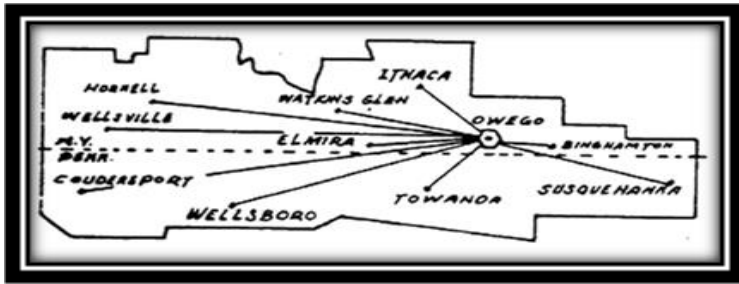
Belleayre, Gore, and Whiteface Become First Eastern-Based Ski Resorts to Partner with The Climate Reality Project I AM PRO SNOW Project

Governor Andrew M. Cuomo today announced the three New York-owned ski resorts, Belleayre Ski Resort, Gore Mountain and Whiteface Mountain, have pledged to be powered by 100 percent renewable energy by 2030, joining The Climate Reality Project I AM PRO SNOW *100% Committed* campaign. The initiative corresponds with Governor Cuomo's Clean Energy Standard, which requires that half of all electricity used in New York come from renewable sources by 2030.



"Belleayre, Gore and Whiteface are key drivers of their local tourism economies, and with this commitment they are joining New York's nation-leading efforts to fight climate change, reduce our carbon footprint and foster the development of renewable resources," **Governor Cuomo said.** "This commitment to New York's future, along with landmark new state investments in these facilities, will help ensure these resorts' continued vitality for generations to come."

The FY 2018 Executive Budget includes a [proposed](#) \$20 million to upgrade the facilities at Whiteface and Gore Mountains to build upon the region's burgeoning tourism industry, and has also [announced](#) an additional \$8 million for upgrades at Belleayre Ski Center this year.



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

INDUSTRY ARTICLE

Governor Cuomo Announces New York-Owned Ski Resorts to be Powered by 100 Percent Renewable Energy by 2030 (Cont.)

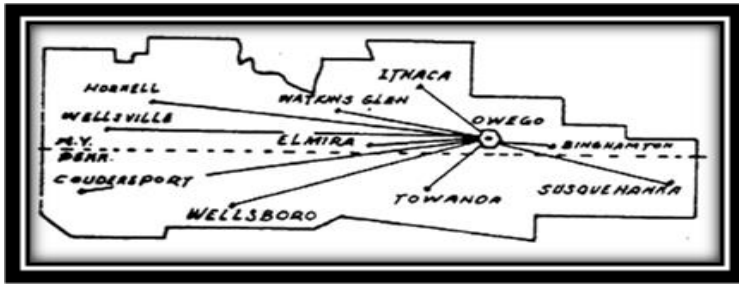


The I AM PRO SNOW *100% Committed* program helps meet the Governor's Reforming the Energy Vision's strategic plan for building a cleaner, more resilient and affordable energy system across the state. By committing to this important cause, Belleayre, Gore, and Whiteface mountains are working to move away from the dirty fossil fuels driving climate change and shift to 100 percent clean, renewable energy. The initiative, coordinated by The Climate Reality Project's I AM PRO SNOW program, encourages ski resorts, towns, businesses and other mountain communities around the world to commit to being powered by 100-percent renewable energy by 2030.

"The Climate Reality Project's I AM PRO SNOW program and *100% Committed* is proud to partner with the New York State Olympic Regional Development Authority's managed ski areas: Belleayre, Gore and Whiteface," said **Ken Berlin, CEO of The Climate Reality Project**. "Recognizing the devastating impact the climate crisis will have on snow, the turn these ski areas are making towards solutions brings us all hope. Our community of renewable partners grows each day, and we can't wait to see who joins us next."

New York State Olympic Regional Development Authority interim president/CEO Mike Pratt said, "As leaders in the ski industry, it is our responsibility to be stewards of the environment. Over the past several years, each of ORDA's managed ski resorts have taken steps towards becoming even more environmentally friendly and efficient. We have done this through our modernizing snowmaking systems and lifts' drives. We have also modernized our building systems and lighting. Lastly, we are purchasing renewable power and have a 5.3 MWdc solar PPA."

"Governor Cuomo Announces New York-Owned Ski Resorts to be Powered by 100 Percent Renewable Energy by 2030" *New York State Governor Andrew M. Cuomo*. Press Office of the New York State Governor, 3 Mar. 2017. Web. 13 Mar. 2017. <<https://www.governor.ny.gov/news/governor-cuomo-announces-new-york-owned-ski-resorts-be-powered-100-percent-renewable-energy>>.



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

Twin Tiers Chapter– Employment Opportunities



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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 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

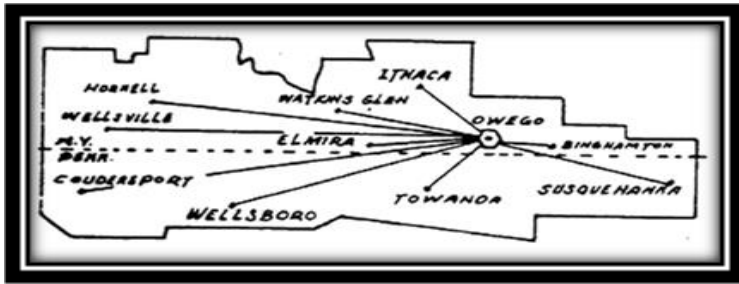
Requirements:

- 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.tetrattech.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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Twin Tiers Chapter– Employment Opportunities



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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.

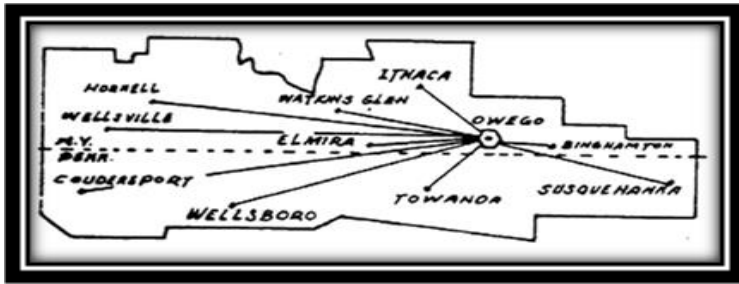
Responsibilities include:

- 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

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Responsibilities:

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

Qualifications:

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

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

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

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

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

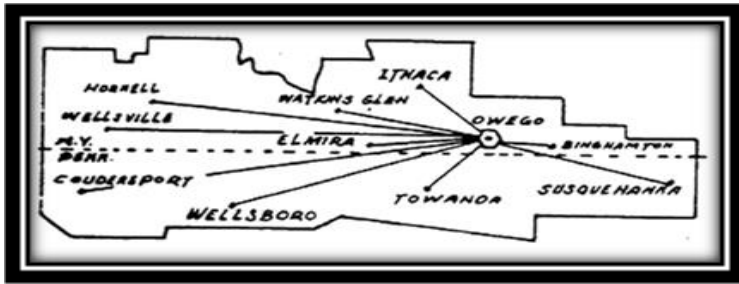
At IBI, we're defining the cities of tomorrow.

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

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

EOE-M/F/Vet/Disability

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



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

Twin Tiers Chapter– Employment Opportunities



Design Your Career

Senior Mechanical Engineer – Buildings

Your Opportunity:

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

Your Duties:

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

Your Capabilities and Credentials:

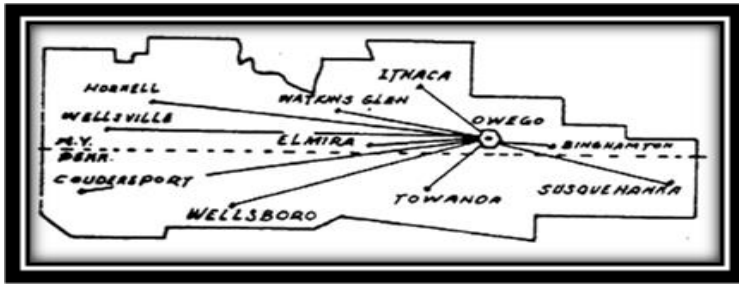
The successful candidate will possess:

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

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

Please apply online directly at:

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



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

Twin Tiers Chapter– Employment Opportunities

MECHANICAL ENGINEER

CORNING

Job Number: 179603

Location: Corning, NY

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

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

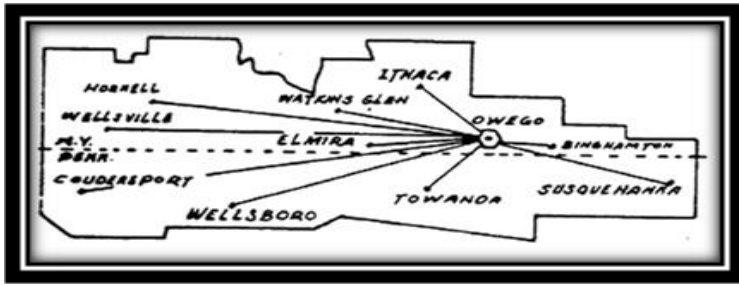
Corning’s history is filled with breakthrough technologies that have played an important role in the way the world works. We thrive on solving difficult, commercially relevant problems through an innovative and collaborative research and development process. Corning succeeds through sustained investment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

Scope of Position:

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

Day to Day Responsibilities:

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



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

Twin Tiers Chapter– Employment Opportunities

MECHANICAL ENGINEER (Cont.)

CORNING

Travel Requirements: Minimal

Hours of work/work schedule/flex-time:

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

Education and Experience:

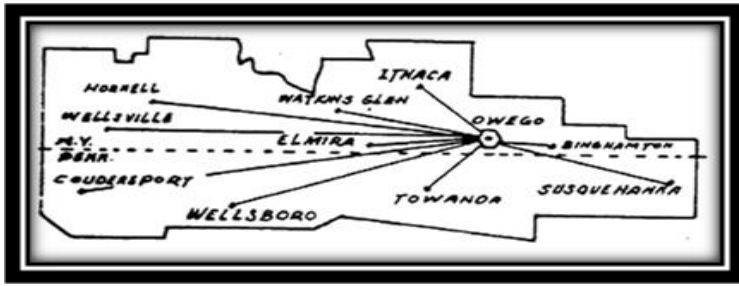
- Min. 4 yr Bachelors of Science Degree
- Min. 4 years HVAC experience in Facilities Operations/HVAC Industry

Qualifications:

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

EOE/AA including Veterans and Disabled.

IF YOU ARE INTERESTED IN THIS OPPORTUNITY, PLEASE FEEL FREE TO CONTACT ANNE LAPORTE AT 716-276-3837 OR LAPORTEAM@CORNING.COM



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

Twin Tiers Chapter– Employment Opportunities

FACILITY MECHANICAL / HVAC ENGINEER

CORNING

Job Number: 180818

Location: Corning, NY

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

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

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

Scope of Position:

- Provide HVAC engineering & project leadership in a corporate engineering group that supports all divisions within Corning Incorporated.
- Apply fundamental engineering principles to develop, design & resolve solutions to a variety of technical problems related to HVAC and facility mechanical systems & processes.
- Develop criteria and specifications for various facility equipment, systems & processes.
- Collectively work with division, process, plant & R&D resources on project teams.
- Develop, review & forecast capital & expense design, equipment & installation project costs.

Day to Day Responsibilities:

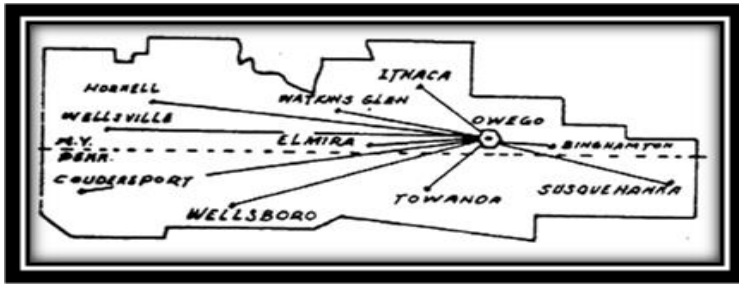
- Deliver strong project leadership skills through the project initiation, planning, implementation and closeout phases.
- Develop project concepts, scopes, estimates, schedules, design, installation & startup documentation.
- Exercise sound judgment, solid engineering principles and utilize structured problem solving techniques.
- Lead, guide, coach & help develop internal Corning & contingent employees as well as external contractors.
- Actively work and participate in project teams in various roles and capacities.
- Effectively listen and communicate utilizing multiple channels and means.

Travel Requirements:

- Travel can be greater than 50% both Domestic and International.
- Project assignments can be in excess of 1-2 years in duration.

Hours of work/work schedule/flex-time:

- Flexibility is required.
- Normal Business Hours (8 – 5, M – F): however, expected to work hours required to achieve objectives. Includes overtime, weekend and off-shift hours.



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

Twin Tiers Chapter– Employment Opportunities

FACILITY MECHANICAL / HVAC ENGINEER (Cont.)

CORNING

Required Education:

- BS degree in Mechanical Engineering
- MS in Mechanical Engineering preferred.

Required Years and Area of Experience:

- 5-10 years of engineering & professional work experience.
- Required Skills:
- Excellent project leadership, HVAC engineering, installation and start-up skills.
- Able to apply HVAC & Mechanical engineering principles to concepts, designs, trouble shooting and solving problems.
- Problem solving skills and the use of structured methods; such as, K-T (DA, PPA, RA), DESGN & DMAIC.
- Excellent communication and interpersonal skills.
- Excellent presentation skills.
- Solid HVAC & Mechanical system trouble shooting capabilities & experience.
- Project estimating, forecasting and scheduling experience.

Desired Skills:

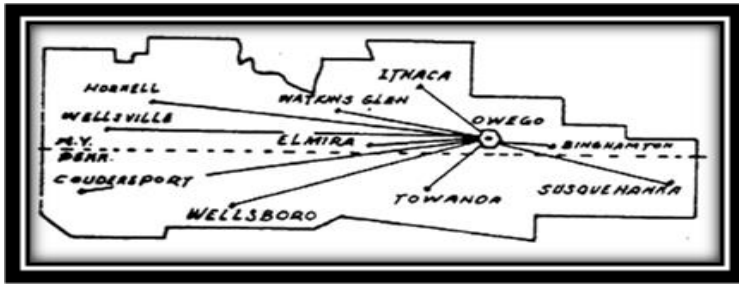
- Proficient in MS Project & SharePoint.
- Experience with AutoCad and Solidworks.
- Professional Engineering Certification.
- PMI certification.
- Proficiency in Mandarin, Spanish or Japanese.

Soft Skills:

- Results oriented.
- Strives for excellence & high quality.
- Strong commitment and work ethic.
- Positive attitude.
- Flexible and adaptable.
- Open, honest & trustworthy.
- Strong listening & communication skills.
- Approachable and a team player.

EOE/AA including Veterans and Disabled.

IF YOU ARE INTERESTED IN THIS OPPORTUNITY, PLEASE FEEL FREE TO CONTACT ANNE LAPORTE AT 716-276-3837 OR LAPORTEAM@CORNING.COM



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

Twin Tiers Chapter– Employment Opportunities

Facilities Engineering Project Manager

Job Number: 182585

Location: Corning, NY

CORNING

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

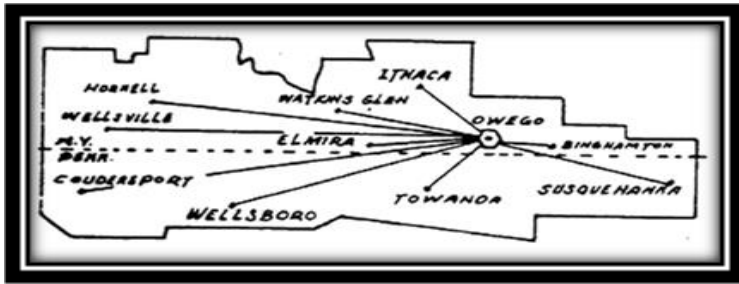
Corning’s history is filled with breakthrough technologies that have played an important role in the way the world works. We thrive on solving difficult, commercially relevant problems through an innovative and collaborative research and development process. Corning succeeds through sustained investment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

Scope of Position:

Manage the development and implementation facility and capital projects involving departmental and/or cross-functional teams focused on the construction of new or existing productions facilities.

Day to Day Responsibilities:

- Provide project management for key manufacturing capital projects. Overall responsibility for the ensuring the project’s compliance with safety, scope schedule, cost, and other project specific deliverables such as those associated with product quality, equipment and process capability, machine and line rates, equipment uptime, etc.
- Direct supervision of project team resources, approximately 10 – 15 members. Provides guidance to subordinates to achieve goals in accordance with established policies.
- Establish requirements with customer.
- Assist in the evaluation and verify justification for project.
- Identifies and drives key decisions for such things as scope, design, schedule, spending, vendor selection, etc.
- Establish roles, responsibilities and competencies required for the project.
- Establish project team working with division management.
- Manage the performance of team members and outside resources to meet the project requirements.
- Establish project plans (scopes, schedule, cost estimates, procurement/contracting strategy, project acceptance criteria, etc.).
- Work with business in the preparation and approval of Appropriation Requests.
- Conduct project meetings and document key issues, action items and decisions.
- For key projects, establish and coordinate activities of a steering committee for the project.
- Provide periodic project updates to customer and division management.
- Manage the project to meet the requirements.
- Implement safety program to ensure that LTAs and Recordable Incidence rate = or < Corporate targets.
- Conduct a project critique at completion and share key learning’s with others unassociated with the project.



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

Twin Tiers Chapter– Employment Opportunities

Facilities Engineering Project Manager (Cont.)

CORNING

Travel Requirements:

- Able to travel extensively including overseas. Assignment could involve long term domestic or international assignments.

Hours of work/work schedule/flex-time:

- Basic work hours are dependent on the particular assignment. Individuals need to work the hours required to complete the assignment. Work hours can vary from 40 to 60 hours per week depending on the needs of the project

Required Education:

- BS Mechanical, Electrical or Civil Engineering
- MS or MBA preferred

Required Years and Area of Experience:

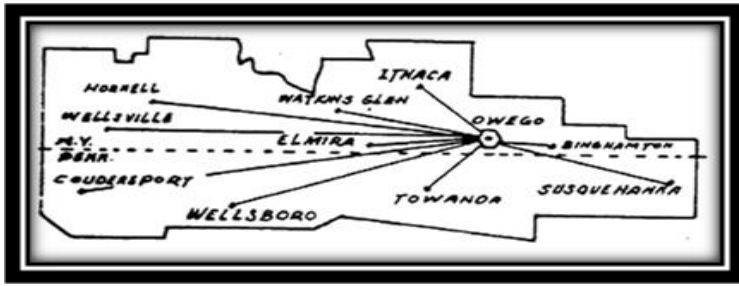
- 10 to 15 years overall experience and 5 years in Project management
- Professional Engineering registration or PMI certification desired

For a full position description and requirements please visit the ASHRAE Twin Tiers Website.

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

EOE/AA including Veterans and Disabled.

IF YOU ARE INTERESTED IN THIS OPPORTUNITY, PLEASE FEEL FREE TO CONTACT ANNE LAPORTE AT 716-276-3837 OR LAPORTEAM@CORNING.COM



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

Twin Tiers Chapter– Employment Opportunities

Environmental Design Engineer

CORNING

Job Number: 180817

Location: Corning, NY

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

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

Scope of Position:

- Provide Environmental engineering, air/water pollution control & project leadership in a corporate engineering group that supports all divisions within Corning Incorporated.
- Apply fundamental engineering principles to develop, design & resolve solutions to a variety of technical problems related to environmental facility systems & processes.
- Develop criteria and specifications for various facility, environmental, air/water pollution controls, equipment, systems & processes.
- Collectively work with division, process, plant & R&D resources on project teams.
- Develop, review & forecast capital & expense design, equipment & installation project costs.

Day to Day Responsibilities:

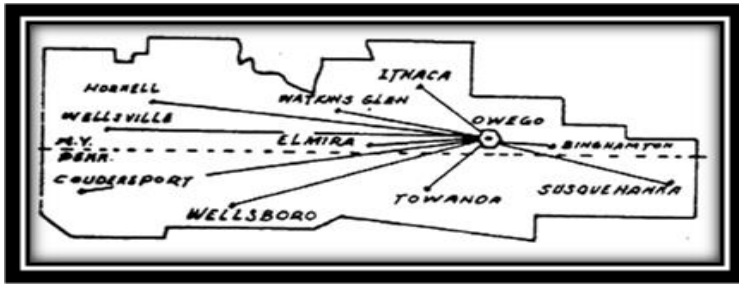
- Deliver strong project leadership skills through the project initiation, planning, implementation and closeout phases.
- Develop project concepts, scopes, estimates, schedules, design, installation & startup documentation.
- Exercise sound judgment, solid engineering principles and utilize structured problem solving techniques.
- Lead, guide, coach & help develop internal Corning & contingent employees as well as external contractors.
- Actively work and participate in project teams in various roles and capacities.
- Effectively listen and communicate utilizing multiple channels and means.

Travel Requirements:

- Travel can be greater than 50% both Domestic and International.
- Project assignments can be in excess of 1-2 years in duration.

Hours of work/work schedule/flex-time:

- Flexibility is required.
- Normal Business Hours (8 – 5, M – F): however, expected to work hours required to achieve objectives. Includes overtime, weekend and off-shift hours.



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

Twin Tiers Chapter– Employment Opportunities

Environmental Design Engineer (Cont.)

CORNING

Required Education:

- BS degree in Environmental Engineering required.
- MS in Environmental Engineering preferred.

Required Years and Area of Experience:

- 5-10 years of engineering & professional work experience.

Required Skills:

- Excellent project leadership, mechanical engineering, installation and start-up skills.
- Able to apply environmental engineering and air/water pollution control principles to concepts, system designs, trouble shooting and solving problems.
- Problem solving skills and the use of structured methods; such as, K-T (DA, PPA, RA), DESGN & DMAIC.
- Excellent communication and interpersonal skills.
- Excellent presentation skills.
- Strong facility environmental system trouble shooting capabilities & experience.
- Project estimating, forecasting and scheduling experience.

Desired Skills:

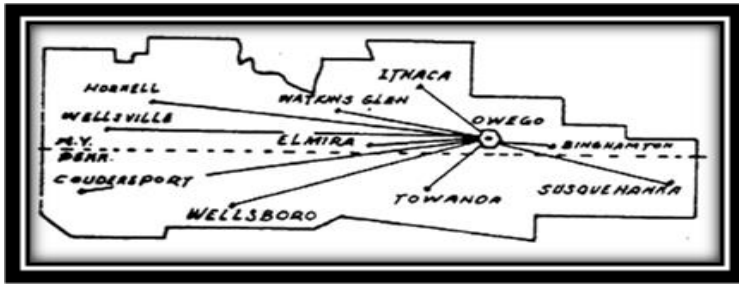
- Proficient in MS Project & SharePoint.
- Experience with AutoCad and Solidworks.
- Professional Engineering certification.
- PMI certification.
- Proficiency in Mandarin, Spanish or Japanese.

Soft Skills:

- Results oriented.
- Strives for excellence & high quality.
- Strong commitment and work ethic.
- Positive attitude.
- Flexible and adaptable.
- Open, honest & trustworthy.
- Strong listening & communication skills.
- Approachable and a team player.

EOE/AA including Veterans and Disabled.

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



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

Twin Tiers Chapter– Employment Opportunities

LaBella

Associates

Engineering
Architecture
Environmental
Planning

SENIOR MECHANICAL ENGINEER – PROJECT MANAGER

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

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

Responsibilities:

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

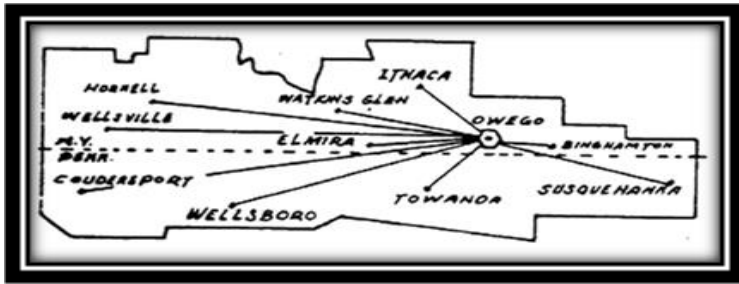
The ideal candidate will possess:

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

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

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

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



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

Twin Tiers Chapter– Employment Opportunities

LaBella

Associates

Engineering
Architecture
Environmental
Planning

Mechanical Engineer

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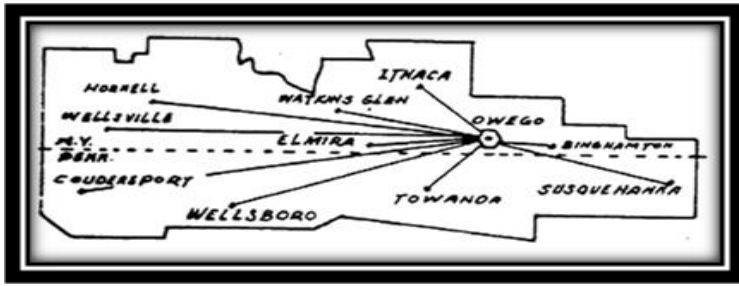
We are currently seeking a Mechanical Engineer with a strong focus and background in Building Projects to work in our Elmira Heights, NY Office. This position will work closely with the mechanical engineering staff to develop concepts, strategies, designs, drawings, specifications and reports.

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

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

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

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



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

Twin Tiers Chapter– Business Cards Advertisement for Newsletter

ADVERTISE your business card:

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

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

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

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

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

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

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

Business Card Advertising 2017

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

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

If you aren't sure, just ask.

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

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

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

Twin Tier Newsletter Editor Email

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



Comments? Suggestions?

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

We welcome your feedback!



ASHRAE Mission Statement

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

Ethics Requirement for PE

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

ASHRAE Vision Statement

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

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

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

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

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