ASHRAE 2017-2018

May Meeting
May 15, 2018

PRESENTATION
CHILLER TECHNOLOGIES

SPEAKER
Bob Kimball, Multistack

To register, visit the Chapter website:
http://twintiers.ashraechapters.org

Please send all newsletter comments to:
Andrew Nice, Editor
c/o Meier Supply Co.
275 Broome Corporate Parkway
Conklin, NY 13748
Email the Editor

Inside this issue:
President’s Corner 2
PAOE 3
Chapter Events Calendar 4
Chapter Meeting Details 7
Golf Announcement 8
Training Events 15
Industry Article 19
Employment Opportunities 21

The American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE), has provided the information, text, graphics and links herein as a convenience for informational purposes only. Persons accessing this information assumes full responsibility for its use.
Dear Twin Tiers Chapter Members,

It is hard to believe that this is my next to last message for the season and seems like this year has flown by. Typically, the conclusion of the Spring symposium marks the start of the countdown for our Clambake and Golf tournament in June which is the last activity in our calendar year. The clambake is scheduled for June 19 at the Links as Hiawatha Landing. Registration is open! More details are available on our website.

The Spring Symposium found us in yet another venue, due to some last minute unplanned conflicts with the booked spaces. Nevertheless, I felt that attendance was strong and the program put together by Kyle Nedlik was comprehensive and full of interesting topics.

I would like to thank all presenters who generously volunteered their time and without whom we would not be able to have such an event and finally a big thank you to our table sponsors.

This year, we once again had the opportunity to award three scholarships to college students interested in pursuing a degree in the engineering field. This is made possible each year through our H.O. Ward Scholarship fund. Congratulations to all three recipients, Tara Dulak and Brandon Link (Binghamton University) and George Pappas (University of New Haven).

We do care about your opinion, so I would welcome any comments or suggestions you may have about the venues we have used the last three years. If you can take some time out of your busy schedule, please share your thoughts with us as to what your preference would be for next year’s event. Was the DoubleTree acceptable? Should we move back to the Treadway or Holiday Inn? Is there any other comment or suggestion you have that would make the Symposium a more worthwhile event for you to attend?

You may possibly recall that our Chapter participated in the Canstruction of the Southern Tier that also took place in April. Our team built the ASHRAE logo using cans; it took approximately 1,200 cans that were ultimately donated to emergency food programs throughout Broome County including food pantries, soup kitchens, and other community meal programs. Our project ended up winning a “Best Adherence to the Rules” award. A big thank you to Jason Gilbert for leading the effort, and for showing up on the day of the event even though he was not feeling well.

This month we will wrap up the season with our last Chapter Meeting that will take place in Ithaca on Tuesday May 15. We will have the pleasure of having Multi-stack Chillers’ regional manager present on the various chiller technologies, including modular chillers, VFD compressors, MagLev, and heat recovery chillers. Look out for more details on our newsletter and our e-blast emails.

Sincerely,
-Petros Paphathomopoulos
Twin Tiers Chapter President
Twin Tiers Chapter

Presidential Award of Excellence (PAOE)

<table>
<thead>
<tr>
<th>Chapter Operations</th>
<th>Chapter Technology Transfer</th>
<th>Electronic Communications</th>
<th>Grassroots Government Activities</th>
<th>Historical</th>
<th>Membership Promotion</th>
<th>Research Promotion</th>
<th>Student Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIN/ PAR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>600/1200</td>
<td>450/1050</td>
<td>250/500</td>
<td>500/650</td>
<td>100/300</td>
<td>500/800</td>
<td>800/1050</td>
<td>300/500</td>
</tr>
<tr>
<td>Current</td>
<td>1505</td>
<td>1950</td>
<td>435</td>
<td>900</td>
<td>685</td>
<td>935</td>
<td>600</td>
</tr>
</tbody>
</table>

POINTS CURRENT AS OF 5/14/2018

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

## Twin Tiers Chapter—Monthly Meeting Information

### 2017-2018 Meeting Dates:

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Tech Session Topic, Tour or Meeting Info</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>19-Sep</td>
<td>Adam Keller, Pro Air Plus Jerry Meyer Jr., MIS of America</td>
<td>Cooling Tower Basics, Cooling Tower Shut-down and NSF Legionella Guideline</td>
<td>27</td>
</tr>
<tr>
<td>17-Oct</td>
<td>Multiple/TBD</td>
<td>Fall Engineering Symposium—Daytime</td>
<td>67</td>
</tr>
<tr>
<td>21-Nov</td>
<td>Michael Collins, Eagle Bay Refrigeration</td>
<td>TOUR Cornell University Lynah Ice Rink Refrigerant Update</td>
<td>12</td>
</tr>
<tr>
<td>19-Dec</td>
<td>William P. Bahnfleth, Ph.D., P.E., ASHRAE Distinguished Lecturer</td>
<td>Integrating Indoor Air Quality and Energy Efficiency in Buildings</td>
<td>31</td>
</tr>
<tr>
<td>16-Jan</td>
<td>Lanny Joyce, Mark Howe, Lou Damiani, Pete Meenan, Cornell University</td>
<td>TOUR Upson Hall Cornell University High performance building design - Sibley School of Mechanical and Aerospace Engineering building</td>
<td>?</td>
</tr>
<tr>
<td>20-Feb</td>
<td>Jason Gilbert</td>
<td>TOUR Binghamton University Heating Plant</td>
<td>?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>**** NOTE **** A SIGNED NDA WILL BE REQUIRED FOR THIS TOUR</td>
<td></td>
</tr>
<tr>
<td>17-Apr</td>
<td>Multiple/TBD</td>
<td>Spring Engineering Symposium—Daytime</td>
<td>?</td>
</tr>
<tr>
<td>15-May</td>
<td>Bob Kimball, Multistack</td>
<td>Chiller Technologies</td>
<td></td>
</tr>
<tr>
<td>19-Jun</td>
<td>None</td>
<td>Golf Tournament</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Speakers and topics are subject to change based on availability.
Twin Tiers ASHRAE H.O. Ward Scholarship

By
Rick Sanguinito Historian 2017-2018

H. O. WARD SCHOLARSHIP
Date: May 8, 2018

Congratulations to the H.O. Ward Scholarship winners this year. The Twin Tiers Chapter of ASHRAE has issued the following scholarships during the lunch meeting at the April Symposium.

- Tara Dulak $1,000 Scholarship
- Brandon Link $500 Scholarship
- George Pappas $500 Scholarship

We look forward to next year’s applications!!

I want to thank all who were involved in evaluating the scholarship applications and providing input in selecting this year’s recipients.
Thank you Sponsors!

2018 Business Cards

Camfil USA, Inc.
6600 Deere Road
Syracuse, NY 13206
Tel: 315-468-3849
Fax: 315-468-1561
Mobile: 315-727-2302
Email: joe.o'hara@camfil.com
www.camfil.com

Joe O’Hara, NCT
Branch Sales Manager

ADELTA
ENGINEERS, ARCHITECTS, & LAND SURVEYORS
Richard R. Sanguinito, PE, LEED AP
Vice President/Director of MEP Services
o 607-231-6605
c 607-222-3509
f 607-231-6650
rsanguinito@delta-eas.com
860 Hooper Road
Endwell, NY 13760
www.delta-eas.com

MEIER SUPPLY CO., INC.
Refrigeration, Air Conditioning & Heating
Andrew Nice
Commercial HVAC Sales Engineer
Applied Products Division
607.760.5960 Cell
275 Broome Corporate Pkwy
Conklin, NY 13748
www.MeierSupply.com
ANice@MeierSupply.com

Modular Comfort Systems
Daniel Brosnan
5860 Belle Isle Rd • Syracuse, NY 13209 Phone: 315-484-9048 Fax: 315-484-9528
470 Willowbrook Rd • Victor, NY 14564 Phone: 585-398-8018 Fax: 585-924-8632
Cell: 315-952-5556 Email: dbrosnan@mcsamms.com Web: www.mcsamms.com

Horizon Engineering Associates LLP
Demand a Higher Standard™
Scott Lance, EBCP, LEED AP O+M
Engineering Manager
315.350.3935
315.474.0751
cell 607.206.9562
toll free 877.513.6249
620 Erie Blvd. West, Suite 107
Syracuse, NY 13204
slance@horizon-engineering.com
May Meeting Announcement

May 15, 2018

May Chapter Meeting

**DATE:** 
Tuesday, May 15th, 2018

**TIME:** 
5:00PM

**MEETING LOCATION:** 
Hotel Ithaca
222 South Cayuga Street
Ithaca, NY 14850

**PRESENTATION:** 
Chiller Technologies

**SPEAKERS:** 
Bob Kimball, Multistack

**AGENDA:**
5:00 – 6:00 – Social Hour
6:00 – 7:30 – Brief Chapter Meeting, Dinner, and Presentation

**MENU:**
Salad of Garden Greens
Rice Pilaf
Pasta Salad
Tomato Cucumber Vinaigrette Salad
Seasonal Vegetable
Breaded Pork Chops
Roasted Chicken
Ice Cream Sunday

**REGISTRATION:**
$25.00 Early Registration (By 5/11/2018)
$30.00 (After 5/11/2018)

**CONTACT:**
Mike McGinnis
(Please call, text, or email me at below with any questions or if you get lost)
E: Email Me!
C: 607-727-3168
Annual Golf Tournament and Clambake

The date for the annual golf tournament and clambake is **Tuesday, June 19.** The event, both golf and clam bake, will be held at **The Links at Hiawatha Landing.** The day will begin with a 10:30am shotgun start. As in past years, the round will include lunch at the turn and keg beer all day. We will have prizes for the winning foursome, closest to pin and drive closest to the line. With its great success over the past few years, the putting contest will also be returning.

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

As always, the golf committee is looking for donations for door prizes and giveaways. Please contact Mike McGinnis or Jason Gilbert with any questions. Thank you.
Twin Tiers Chapter - April BOG Meeting Minutes

http://twintiers.ashraechapters.org

Agenda

Meeting was called to order at 1:36pm

- Call to Order and Attendance: Devin S., Jason G., Petros P., Glenn R., Mike M., Rob V., Chris W., Kyle N., Adam K.

- General Announcements: 3 Scholarships applications received to-date / Announce In April?

- Treasurer’s Report (Devin Shapley):
  - All accounts are in good standing.

- CTTC (Mike McGinnis / Kyle Nedlik)
  - Monthly Meetings (Mike): May Meeting? Thompkins Trust, Ithaca or SUNY Broome? Water source VRF
  - Book next year’s symposium – Confirm date

- YEA (Devin Shapley/Victoria Kramer): YEA event after symposium?

- Membership Promotion (Chris Wolak):

- GGAC (Adam Keller): “Day on the Hill Event,” Albany - June 5th, Adam to send email outlining details

- Student Activities (Jason Gilbert): Houston Trip

- Research Promotion (Glenn Roberts): Super bowl money has not been deposited yet. Status?
  - PAGE @ 695 at the time of the meeting
  - Deposit: $1000 – 30% by Dec 31st, $500 – Super Bowl, $??? Business cards
  - RP Replacement for Glenn? Glenn Doesn’t want to hog it
Twin Tiers Chapter - April BOG Meeting Minutes

http://twintiers.ashraechapters.org

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

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>PAR</th>
<th>MIN</th>
<th>PTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter Operations*</td>
<td>1200</td>
<td>600</td>
<td>945</td>
</tr>
<tr>
<td>Chapter Technology Transfer*</td>
<td>1050</td>
<td>450</td>
<td>1525</td>
</tr>
<tr>
<td>Electronic Communications</td>
<td>500</td>
<td>250</td>
<td>379</td>
</tr>
<tr>
<td>Grassroots Government Advocacy*</td>
<td>650</td>
<td>500</td>
<td>700</td>
</tr>
<tr>
<td>Historical Criteria</td>
<td>300</td>
<td>100</td>
<td>685</td>
</tr>
<tr>
<td>Membership Promotion*</td>
<td>800</td>
<td>500</td>
<td>760</td>
</tr>
<tr>
<td>RP*</td>
<td>1050</td>
<td>800</td>
<td>600</td>
</tr>
<tr>
<td>Student Activities*</td>
<td>500</td>
<td>300</td>
<td>305</td>
</tr>
</tbody>
</table>

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

- New Business
  - Construction complete. Total cost approximately $600
    - Good Event if the Budget makes sense
- Old Business

Meeting was adjourned at 1:57pm
Motioned: Mike M.
Second: Devin S.
As you may already know our chapter fielded a team and participated in the Canstruction of the Southern Tier event, an international hunger-relief competition where teams compete to design and build structures made entirely out of canned food.

The canned food used in each structure will be distributed through CHOW to emergency food programs throughout Broome County including food pantries, soup kitchens, and other community meal programs. The funds raised will support both agencies’ hunger-relief efforts including the Food Bank’s BackPack Program. Winners of Canstruction of the Southern Tier will be nominated for the chance to compete on a national level.

For our inaugural structure we decided that it was fitting to attempt building the ASHRAE logo. As you can see from the photos below, Jason Gilbert and his crew did a great job of building a structure that did not collapse! This great feat of engineering utilized 1,156 cans and did win a participation ribbon for strictest adherence to the rules!
2018 Canstruction Competition

ASHRAE Twin Tiers Chapter
ASHRAE Logo

The structure is intended to depict the ASHRAE society logo. ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) is an organization devoted to the advancement of indoor-environment-control technology in the heating, ventilation, and air conditioning (HVAC) industry.

Team Participants:
Jason Gilbert
Petros Papasophopoulus

Number of Cans
1156

Shopping List
- Cans
- Beans
- Canned Sausage

Visit
www.FoodBankST.org
to vote for your favorite structure!
Thank you Sponsors!

2018 Business Cards

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

Joseph Parisella, PE, CPD
Sr. Mechanical Engineer

direct: 607.338.1284
e-mail: jparisella@popligroup.com

main: 607.238.5888
fax: 607.338.1288

45 Lewis Street • Binghamton, NY 13901

Mike McGinnis, P.E.
300 MIKE CROSSING BLVD, ROCHESTER, NY 14624
Direct (607) 727-3168
Office (585) 436-1940
Fax (585) 436-6606
Email mmcginnis@rlkistler.com
www.rlkioteller.com

• PRECISION AIR CONDITIONING
• PRECISION POWER CONDITIONING
• EMERGENCY GENERATORS
• HUMIDIFICATION / DEHUMIDIFICATION
• FLUSH HOOD CONTROLS
• GREEN HVAC PRODUCTS

EMERSON

PROAIRPLUS

Adam Keller
Sales Engineer

315-487-8791
Fax: 315-487-6179
akeller@proairplus.com
822 State Fair Blvd.
Syracuse, NY 13209-1320
www.proairplus.com

YOUR BUSINESS CARD COULD BE HERE!

Your business card could be seen by hundreds of potential clients every month!

Contact Andrew Nice for more Info!
607-760-5960
anice@meiersupply.com

Only $50 per Year!
What Were They Thinking???

Really? The on switch couldn’t have been put inside?

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. ***
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) on the engineering web site.

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

Take Your PE Ethics Self Test Here!

http://www.op.nysed.gov/prof/pels/peceselftest.htm
American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

TRAINING

New York State Professional Engineers

Need a few extra PDH?
FREE Online Courses are Available!

www.aecdaily.com

www.ronblank.com

The above websites offer free online courses that are approved for credit!
ASHRAE HVAC Design Training
HALIFAX, NS

Level II Training Offered – Seats are Limited

HVAC Design: Level II – Applications

When: May 28 – 29, 2018 | Halifax, NS
Cost: $854 (ASHRAE Member: $699)
Company Discount: Enroll 3 or more participants from the same company at the same time and SAVE!

REGISTER NOW & SAVE $50

ASHRAE's HVAC Design: Level II – Applications provides instruction on HVAC system designs for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. In two days, gain an in-depth look into Standards 55, 62.1, 90.1, 189.1 and the Advanced Energy Design Guides. Training will focus on a range of topics including: HVAC equipment and systems, energy modeling, designing a chiller plant, and BAS controls.

Thank you Sponsors!

2018 Business Cards

STCF
SOUTHERN TIER CUSTOM FABRICATORS
INCORPORATED

Ian Morrell, President
Your Responsible Partner

1322 College Avenue
Elmira, NY 14901
www.STCF.com

Ph: (607) 732-0927
Fax: (607) 734-0433
Cell: (607) 481-0701
e-mail: morrell@STCF.com

Taitem
AEROSEAL

Evan Hallas
Aerosol Operations Manager
ehallas@taitem.com
Taitem Engineering, PC
110 South Albany Street
Ithaca, New York 14850
607.277.1118 x103
www.taitem.com

Ryan Byrd
System Sales - Engineering Account Manager
Team Leader

Trane Commercial Systems
15 Technology Place
East Syracuse, NY 13057
315.234.1500 Office 315.433.9120 Fax
rbyrdr@trane.com
www.trane.com

Ray Spears
Controls Account Manager

Shay Doane
Sales Engineer

Trane Commercial Systems
15 Technology Place
East Syracuse, NY 13057
Office (315) 234-1509 Mobile (315) 382-2350
Fax (315) 433-9120
sdoane@trane.com
www.trane.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
Governor Andrew M. Cuomo today announced that $3 million is available to help New Yorkers suffering from serious health issues that are aggravated by extreme heat purchase an air conditioner. Individuals can apply now for cooling assistance through the Home Energy Assistance Program at their local department of social services.

"When the heat and humidity of summer arrives, it's important that vulnerable New Yorkers are able to stay safe and comfortable in their homes," Governor Cuomo said. "I encourage anyone with a medical condition that is worsened by high temperatures to apply now, so an air conditioner can be installed before the first heat wave hits."

The New York State Office of Temporary and Disability Assistance, which oversees the program, has set aside $3 million in federal funding to provide an air conditioning unit or fan, to eligible households. Last year, 4,000 households received cooling assistance.

To qualify, applicants must meet existing HEAP eligibility criteria and income guidelines, which vary by household size, and have at least one member of the household that suffers from a documented medical condition exacerbated by extreme heat. For example, a household of four can earn up to $53,482 a year or $4,457 a month, and still qualify for assistance.

Cooling assistance will be provided on a first-come, first-served basis. Local Departments of Social Services will accept applications through August 31, or until funding runs out.

Office of Temporary and Disability Assistance Commissioner Samuel D. Roberts said, "We know that for some of our fellow New Yorkers, the summertime heat can pose a grave risk and this assistance could be potentially lifesaving. But it is vital that anyone who may be eligible, but does not have an air conditioner or cannot afford to purchase one, apply as soon as possible."

Congressman Eliot Engel said, "Summers are getting hotter and the threat posed by heat stroke, especially for seniors, cannot be understated. I applaud Governor Cuomo for supporting HEAP and I encourage all eligible New Yorkers to take advantage of this program."

Congressman José Serrano said, "Anyone who has lived in New York knows how hot it can get in the City during the summer. High temperatures and heat waves can be a danger and even lethal for Seniors, people with serious medical conditions, and other vulnerable populations. This funding will help low-income individuals with health issues to purchase and install air conditioners to stay cool and sheltered from the heat at home. I encourage qualifying Bronxites to apply early for this help, available on a first-come first-served basis."
Governor Cuomo Announces $3 Million to Help Vulnerable New Yorkers Stay Cool this Summer (Cont.)

Congresswoman Nydia M. Velázquez said, "Like any form of extreme weather, the summer heat and humidity poses a serious threat for many of our City's most vulnerable seniors and working families. To this end, as we head into the summer months, I commend Governor Cuomo for taking proactive measures to help at-risk New Yorkers secure proper air conditioning. I will continue to do my part from the federal level to help families stay healthy and safe this summer."

Congressman Gregory W. Meeks said, "I appreciate Governor Cuomo's effort in planning and announcing this program. As summer is fast approaching, New Yorkers with medical conditions that make them vulnerable to heat-related illness should not have to fear the summer heat. I encourage all who may qualify to apply, take full advantage of this assistance program, and of course, to stay cool this summer."

Congressman Joe Crowley said, "Summer in New York City brings with it a sweltering heat that is unbearable for many of our most vulnerable residents. Cooling assistance will help alleviate the daily frustrations of those living with medical conditions provoked by the rising temperatures. I urge my constituents in Queens and the Bronx who are eligible for this program to apply now so they can receive accommodations before summer comes into full swing."

Congressman Brian Higgins said, "Federal HEAP resources help close the gap to ensure seniors and those in need can remain safe and healthy in their homes."

Congressman Paul Tonko said, "For New Yorkers with serious health concerns, including many of our seniors, high summer heat can be dangerous and even deadly. The risk of heat stroke and other illness is increasing for these vulnerable individuals as climate change drives temperatures higher and weather more extreme. My thanks to Governor Cuomo for championing this valuable support program that can help New Yorkers afford the cooling assistance they need to stay healthy and safe through the summer."

Congressman Sean Patrick Maloney said, "Older Americans and people who are sick shouldn't have to endure potentially life-threatening heat because they can't afford the high electricity costs associated with cooling their homes during a New York summer. I've been down in Washington fighting Republicans in Congress who are trying to kick people off this program - and I'm glad I've got a strong ally in Governor Cuomo who's also committed to helping these folks in need."

Congressman Adriano Espaillat said, "Extreme heat can be deadly, especially for our seniors and individuals with serious health issues. I commend Governor Cuomo on today's announcement that will help keep New Yorkers cool as we enter warmer weather months, and I encourage all eligible residents to apply for cooling assistance through the Home Energy Assistance Program (HEAP) as soon as possible to ensure that they are able to participate in this vital program and stay cool through the summer."

MECHANICAL ENGINEER, HVAC DESIGN

Job Number: 25002
Location: Corning, NY

Corning is one of the world’s leading innovators in materials science. For more than 160 years, Corning has applied its unparalleled expertise in specialty glass, ceramics, and optical physics to develop products that have created new industries and transformed people’s lives.

Corning succeeds through sustained investment in R&D, a unique combination of material and process innovation, and close collaboration with customers to solve tough technology challenges.

Corning’s Glass Technologies segment manufactures chemically strengthened cover glass, such as Gorilla® Glass® for the consumer electronics market and glass substrates for active matrix liquid crystal displays ("LCDs") that are used primarily in LCD televisions, notebook computers and flat panel displays.

Scope of Position:
Responsible for Precision HVAC Equipment Design within the Glass Melting and Forming Process, ranging from initial concept stage to final design approval and implementation, including fabrication and check-out at vendors, and follow-up to ensure that all quality, cost and safety requirements are met. Work includes support for plant expansions, along with continuous improvement projects and technology changes at equipment rebuilds/repairs.

Day to Day Responsibilities:
- Participates on project teams as an individual contributor or as a project task leader understanding the customer’s requirements, developing project plans and schedule, developing scopes of work and cost estimates and supporting implementation for advanced manufacturing environments with precision HVAC equipment.
- Receive direction or guidance from a senior department member(s) to develop/strengthen process environmental engineering competencies.
- Responsible for interfacing with project managers, supervisor, process personnel, along with dept SME to insure correct technology is being scoped and installed.
- Enclosure design work using accepted good airflow management design principles and HVAC principles
- Review as needed troubleshooting and problem solving exercises for enclosure systems
- Migrate standard enclosure design specifications, qualification documents, and installation practices
- Manage external suppliers of enclosure related equipment in Asia, for detailed technical design or installation work as required.
- Support and provide ownership of enclosures as a process tool
- Lead/Participate in existing facility modification as well as new facility design to ensure design meets the goals of the process requirements.
- Maintain documentation integrity for all systems of responsibility
- Provide the project or task with sound innovative thinking, problem solving skills and customer focus.
MECHANICAL ENGINEER, HVAC DESIGN (Cont.)

- Conceptual design, detailed design, CAD drawing updates, presentation at design reviews, working with other designers and process engineers, interactions with plant sites, technical guidance on equipment, working with vendors on fabrication of equipment, and compliance with department standards and policies.

Travel Requirements: Approximately 50% travel, mainly in Asia.

Work Schedule: 40 hrs per week - periodic evening or morning conference calls, Work duration Project by Project Basis

Required Skills:
- Mechanical, Engineering skills/experience
- HVAC Design and Best Practices
- Clean room Design and Operations Understanding
- Controls Experience
- Understanding Thermal dynamics Design (Heat Transfer, Heat Balance)
- Data Analysis
- Project management skills

Desired Skills:
- Experience with CAD software
- AutoCAD – 2D/3D – capable of standalone design and drawing experience
- Solid Works – capable of reviewing drawings and models
- AHU Design experience
- Capable of designing HVAC systems from concept to bidding
- Project leadership
- Capable of interacting with plant operators, contract vendors and leading the installation of proposed mechanical systems
- Construction Management experience
- Plant manufacturing Experience
- Experience working equipment vendors

For a full position description and requirements please visit the ASHRAE Twin Tiers Website. [http://twintiers.ashraechapters.org/](http://twintiers.ashraechapters.org/)

EOE/AA including Veterans and Disabled.

IF YOU ARE INTERESTED IN THIS OPPORTUNITY, PLEASE FEEL FREE TO CONTACT JESSICA HACKER AT [HACKERJL@CORNING.COM](mailto:HACKERJL@CORNING.COM)
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:**
- Mechanical Engineering on a wide range of building projects: complexity and responsibility level to vary with experience and ability;
- Perform site visits for existing mechanical systems evaluation and to inspect contract work in progress or completed, prepare associated engineering reports;
- Design building mechanical systems (primarily HVAC) including appropriate system concepts, calculations, energy modeling, layout, sizing, selections, specifications and coordination;
- Review and respond to team members on project design work, RFIs, submittals, and other construction related documents and issues in a professional and timely manner;
- Monitor and controls 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;
- Experience with design of mechanical systems for educational facilities is desired;
- Licensed Professional Engineer (PE) or 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;
- Possesses strong communication and interpersonal skills.

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

EOE AA M/F/Vet/Disability
Twin Tiers Chapter – Employment Opportunities

Senior Mechanical Engineer

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

IBI Group’s Binghamton, New York office is searching for a Senior Mechanical Engineer to join its growing team. Are you looking for a challenging opportunity that can move your career to the next level? Then come discover what IBI has to offer.

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

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

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

We are a global team of dedicated and experienced architects, engineers, planners, designers and technology professionals who share a common desire – to help our clients create livable, sustainable, and advanced urban environments. From high-rises to industrial buildings, schools to state-of-the-art hospitals, transit stations to highways, airports to toll systems, bike lanes to parks, we design every aspect of a truly integrated city for people to live, work, and play.

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

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

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

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

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

EOE-M/F/Vet/Disability

Contact: Linda Gauld linda.gauld@ibigroup.com (+1 519 472 7328 ext 261)
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:
- (Endicott) https://jobs-stantec.icims.com/jobs/25927/senior-mechanical-engineer---buildings/job
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](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](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](mailto:TwinTierNewsletterEditorEmail)
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 promote a sustainable world

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