March Meeting
March 20, 2018

TOUR:
Corning Incorporated Sullivan Park
Chiller Plant, Boiler Plant, and Lab Spaces

PRESENTATION:
Campus Systems and Energy Program

SPEAKER & TOUR GUIDE:
Ernie Nitsche

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
Dear Twin Tiers Chapter Members,

Spring is almost here and even though we went through yet another snowfall there is light at the end of the tunnel; better weather is ahead of us! When I came to the country 20 years ago, I could not understand people’s obsession with the weather but quickly came to realize its importance and effects to our daily routine.

As we are preparing for spring, and gearing up for our Spring Symposium, we are also looking into becoming more involved in our community and help those in need. This year our chapter will be participating in the Construction of the Southern Tier, which is an international hunger-relief competition where teams compete to design and build structures made entirely out of canned food. Our current year Vice President, Kyle Nedlik, is chairing the event, as well as participating as the team captain for one of the team entries.

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. Come take peek at what Jason Gilbert has come up with for the Team Twin Tiers entry project.

Following February’s well attended meeting at Binghamton University, March’s event will be a tour of Sullivan Park Science & Technology Center in Corning, NY. This tour has been in the works for a few years now and thanks to Mike McGinnis it has finally become a reality. Due to the sensitive nature of the facility and the proprietary research taking place there, all that wish to attend the tour and presentation must sign up ahead of time and also complete Non-Disclosure Agreements prior to the event.

The forms will be made available very soon and once available we will upload to the ASHRAE Twin Tiers website as well as notify our membership via e-mail.

Sincerely,

-Petros Paphathomopoulos
Twin Tiers Chapter President
American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

Twin Tiers Chapter

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>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>
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<tr>
<td>Current</td>
<td>790</td>
<td>1075</td>
<td>319</td>
<td>700</td>
<td>685</td>
<td>760</td>
<td>570</td>
</tr>
</tbody>
</table>

POINTS CURRENT AS OF 3/14/2018

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!
## 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</td>
<td>Cooling Tower Basics</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Jerry Meyer Jr., MIS of America</td>
<td>Cooling Tower Shut-down and NSF Legionella Guideline</td>
<td></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></td>
<td></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>
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<tr>
<td></td>
<td></td>
<td><strong><strong>NOTE</strong></strong> 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>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.
Dennis Fancher, 73, of Ocean Isle Beach was called to his eternal home on February 25, 2018 at New Hanover Regional Medical Center in Wilmington surrounded by family and friends.

Dennis is survived by his grade school sweetheart and wife of 54 years, Carol Fancher; 3 daughters, Shelly (Michael) Kress, Kristen (Blane) Moon, Kimberly (John) Lord; 5 grandchildren, Karin Lord, Taylor Lord, Lindsay Moon, Zachary Lord, Aniston Moon; 3 grandchildren in love, Knox, Alexander and Nellie Harris; his mother Miriam Fancher; his brother Ronald (JoAnn) Fancher, and his sister Renee (Richard) Fletcher. He is predeceased by his father, Arthur Fancher.

Dennis attended Vestal High School and was a graduate of Augusta Military Academy in Virginia, class of 1963. He also attended Alfred Technical College for HVAC and refrigeration and was a member of the free and accepted masons. As a New York transplant Dennis has served his community in many capacities; a volunteer firefighter on the Ocean Isle Beach Fire Department, worked with the Sea Turtle Patrol, served as the community watch coordinator for his street, and was always willing to help anyone in need. Semi-retired, Dennis obtained his real estate license and worked closely with his friend and mentor on the Sarah Harris Team, as well having served as the Vice President of Tri-County Mechanical. While his birth name was Dennis, to his family, friends and community he was called Pop-Pop and was loved by all that knew him. He had a passion for history and recently shared his love by taking his grandchildren on a heritage trek to see their family roots in Pennsylvania and New York. When he wasn't working, Pop-Pop loved to spend time fishing, clamming or hunting, always with family.

There will be a celebration of life on May 5th at Ocean Isle Beach.
Thank you Sponsors!

2018 Business Cards

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Ian Morrell, President
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www.STCF.com

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

Taitem Aeros eal

Evan Hallas
Aerosol Operations Manager
ehallas@taitem.com

Taitem Engineering, PC
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Ithaca, New York 14850
607.277.1118 x103
www.taitem.com

Ryan Byrd
System Sales - Engineering Account Manager
Team Leader

Trane Commercial Systems
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East Syracuse, NY 13057
315.234.1500 Office 315.433.9120 Fax
rjbyrd@trane.com
www.trane.com

Shey Doane
Sales Engineer

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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
March Meeting Announcement

March 20, 2018

March Chapter Meeting

DATE: Tuesday, March 20th, 2018
TIME: 5:00PM
TOUR LOCATION: 1 Science Center Drive, Painted Post, NY 14870
TOUR GUIDE: Ernie Nitsche
MEETING LOCATION: 1 Science Center Drive, Painted Post, NY 14870
PRESENTATION: Corning Incorporated Sullivan Park HVAC Infrastructure and Energy Program
SPEAKERS: Ernie Nitsche
AGENDA: 5:00 – 5:15 – Arrive and safety Orientation
5:15 – 6:45 – Tour of Sullivan Park
7:00 – 8:30 – Brief Chapter Meeting, Dinner, and Presentation
MENU: Caesar Salad
Pesto Ricotta Baked Campanelle
House Made Veal Meatballs in Pomodoro
Roasted Fingerling Potato
Sautéed Green Beans
Mini Cannoli’s

REGISTRATION: Register online at http://twintiers.ashraechapters.org/ (Under the “Programs” Tab)
$25.00 Early Registration (By 3/13/2018)
$30.00 (After 3/13/2018)

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

**Annual Spring Symposium and Professional Development Seminar**

**Tuesday, April 17, 2018, 8:30 A.M. – 4:30 P.M.**

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

**EARN UP TO 7.5 Professional DEVELOPMENT HOURS!**

The ASHRAE Twin Tiers Chapter 2018 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 technologies as well as techniques, methods, and systems that employ them.

**SCHEDULE OF EVENTS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Binghamton Room</th>
<th>Endicott Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-8:30 A.M.</td>
<td>Registration, Holiday Inn</td>
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<tr>
<td></td>
<td>Includes: Coffee, Muffins, &amp; Fresh Fruit</td>
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<tr>
<td>8:30-10:00 A.M.</td>
<td>“Centrifugal Pump Basics”</td>
<td>“The Basics of Central Vacuum Systems Design &amp; Industrial Vacuum Design”</td>
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<tr>
<td></td>
<td>1.5 PDH</td>
<td>1.5 PDH</td>
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<td></td>
<td>Steve Krisko, Frank P. Langley Co.</td>
<td>Norman Nowosinski, P.E. - Nilfisk</td>
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<tr>
<td>10:00-10:10 A.M.</td>
<td>Morning Break – Foyer</td>
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<tr>
<td></td>
<td>1.5 PDH</td>
<td>1.5 PDH</td>
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<tr>
<td></td>
<td>Chris Wolak, Victaulic</td>
<td>Michael Kingsley, PhD, P.E., CPMP, LEED AP - OBG</td>
</tr>
<tr>
<td>11:40-1:20 P.M.</td>
<td>Lunch &amp; Presentation Followed by the Monthly Chapter Meeting – Johnson City Room</td>
<td></td>
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<tr>
<td></td>
<td>Lecturer: Daniel Noll, ASHRAE DL - Syska Hennessy Group</td>
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<tr>
<td></td>
<td>Presentation: “Energy Policy: An Engineering Perspective”</td>
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</tr>
<tr>
<td>1:20-2:50 P.M.</td>
<td>“Anchoring &amp; Restraint of Rooftop Equipment in High Wind Areas”</td>
<td>“Healthy, Airside Solutions to Significantly Reduce Your Building’s Carbon Footprint”</td>
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<tr>
<td></td>
<td>1.5 PDH</td>
<td>1.5 PDH</td>
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<td>TBD</td>
<td>Gordon Sharp, ASHRAE DL – Aircuity, Inc.</td>
</tr>
<tr>
<td>2:50-3:00 P.M.</td>
<td>Afternoon Break – Foyer</td>
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<td></td>
<td>Includes: Soft Drinks &amp; Snacks</td>
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<tr>
<td>3:00-4:30 P.M.</td>
<td>“Strategies for Manual, Automatic, &amp; Pressure Independent Balancing”</td>
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</tr>
<tr>
<td></td>
<td>1.5 PDH</td>
<td>Leandro de la Torriente, IMI Flow Design</td>
</tr>
</tbody>
</table>

Please Note: The ASHRAE Twin Tiers Chapter reserves the right to change the schedule, speakers and presentations without notice.
American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

**Annual Spring Symposium and Professional Development Seminar**

**Tuesday, April 17, 2018**

ASHRAE Twin Tiers Chapter Annual Spring Symposium and Professional Development Seminar

A maximum of seven and a half (7.5) Professional Development Hours (PDH) towards the New York State Professional Engineering continuing education requirements will be available to attendees!

**EARLY PRE-PAID REGISTRATION DEADLINE: FRIDAY, APRIL 6, 2018**

Send Pre-Paid Registration by Mail or Pay on-line at [http://twintiers.ashraeccaptny.org](http://twintiers.ashraeccaptny.org)

Symposium Registration Includes Morning Refreshments, Buffet Lunch and Afternoon Refreshments

**PLEASE REGISTER EARLY! – SPACE MAY BE LIMITED!**

Presentations are free to all students. $10 for student lunch.

| Name:ASHRAE, ACEC, or NYSSPE Member | $ 150 ($125 by 4/6) |
| Company/Affiliation:Non-ASHRAE Member | $ 175 ($150 by 4/6) |
| Address:Student Attendance | $ 0 |
| City/State/Zip:Student Attendance with Lunch | $ 10 |
| Preferred Email: | |

Pay by credit card using PayPal (no account required) at our chapter website [http://twintiers.ashraeccaptny.org](http://twintiers.ashraeccaptny.org) or mail payment and registration to the following address. Make checks payable to “ASHRAE Twin Tiers Chapter”. 2018 Spring Symposium, PO Box 6706, Ithaca, New York 14851-6706.

Inquiries: Kyle Nedlik - kyle.nedlik@stantec.com

**Hotel Reservations:** Please call the Holiday Inn Binghamton at 607-722-1212 and identify yourself as part of the ASHRAE Twin Tiers 2018 Spring Symposium when making reservations.
Twin Tiers Chapter - February BOG Meeting Minutes

Board of Governors Meeting
Date: February 20, 2018
Location: Binghamton University

http://twintiers.ashraechapters.org

Agenda

Meeting was called to order at 4:18 pm

- Call to Order and Attendance: Petros P., Devin S., Kyle N., Chris W., Mike M., Jason G.

- General Announcements: 2 Scholarships applications received to-date

- Treasurer’s Report (Devin Shapley):
  - All accounts are in good standing.
    - Leaving collection of chapter dues by society as-is this year.
    - President to request disbursement from Tompkins for DL (from Albern) and Scholarships (from HO ward)

- CTTC (Mike McGinnis / Kyle Nedlik)
  - Spring Symposium(Kyle):
    - Speaker solicitations
    - Table sponsorships
    - Marketing opportunities

- Monthly Meetings (Mike): Corning Meeting in March

- YEA (Devin Shapley/Victoria Kramer): Update on YEA event for March?

- Membership Promotion (Chris Wolak):

- GGAC (Adam Keller):

- Student Activities (Jason Gilbert): More PAOE Points After Tonight’s Meeting

- Research Promotion (Glenn Roberts):
Twin Tiers Chapter - February BOG Meeting Minutes

Board of Governors Meeting
Date: February 20, 2018
Location: Binghamton University

http://twintiers.ashraechapters.org

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

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>PAR</th>
<th>MIN</th>
<th>PTS</th>
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<tbody>
<tr>
<td>Chapter Operations*</td>
<td>1200</td>
<td>600</td>
<td>790</td>
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<tr>
<td>Chapter Technology Transfer*</td>
<td>1050</td>
<td>450</td>
<td>1075</td>
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<tr>
<td>Electronic Communications</td>
<td>500</td>
<td>250</td>
<td>319</td>
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<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>
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<tr>
<td>Membership Promotion*</td>
<td>800</td>
<td>500</td>
<td>760 (885 in Jan)</td>
</tr>
<tr>
<td>RP*</td>
<td>1050</td>
<td>600</td>
<td>570</td>
</tr>
<tr>
<td>Student Activities*</td>
<td>500</td>
<td>300</td>
<td>225</td>
</tr>
</tbody>
</table>

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

- New Business
  - Website update
    - Reimburses Petros for Template
- Old Business
  - Construction.
    - Need Can Count & shopping list by March 16th

Meeting was adjourned at: 4:54 pm
Motioned: Petros
Second: Mike M.
What is Canstruction®

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

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

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

How Will Canstruction of the Southern Tier Benefit Broome County?

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

Working in Partnership to Meet the Need

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

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

* Sponsorship Agreement and Payment due March 16th*

**Additional Sponsorship Benefits Include**

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

Please check which level of Sponsorship you wish to contribute:

☐ Gold Sponsor: $2,500
☐ Silver Sponsor: $1,000
☐ Supporting Sponsor: $500
☐ Other Donation: $_______

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

Sponsor: __________________________________________

Address: __________________________________________

City, State, Zip: ____________________________________

Contact: __________________________________________

Phone: ___________________________ Email: __________

Signature: ___________________________ Date: __________

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

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

For More Information: visit www.foodbankst.org/construction or contact Canstruction Chair
Kyle Nedlik via email BLI.convstruction@gmail.com Sponsorship
Agreement and Payment due: March 16th
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

MEIER SUPPLY CO., INC.
Refrigeration, Air Conditioning & Heating
275 Broome Corporate Pkwy
Conklin, NY 13748
www.MeierSupply.com
ANice@MeierSupply.com

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

Andrew Nice
Commercial HVAC Sales Engineer
Applied Products Division
607.760.5960 Cell

Horizon Engineering Associates LLP
Demand a Higher Standard™

Scott Lance, EBCP, LEED AP O+M
Engineering Manager

Daniel Brosnan

Scott 315.350.3935
315.474.0751
c 607.206.9562
toll free 877.513.6249
620 Erie Blvd. West, Suite 107
Syracuse, NY 13204
slance@horizon-engineering.com
What Were They Thinking???

Aftermarket Energy Efficiency Booster

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. ***
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) 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
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!
Thank you Sponsors!

2018 Business Cards

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Only $50 per Year!
Get in-depth training for real-world HVAC&R challenges from ASHRAE in conjunction with the 2018 Canadian Mechanical & Plumbing Exposition (CMPX) in Toronto. ASHRAE will present two courses on ASHRAE Standard 90.1 including the new Save 35% while Complying with ASHRAE Standard 90.1-2013 course to practicing professionals in the HVAC&R industry.

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

**Wednesday, March 21, 2018**

**NEW! Save 35% while Complying with ASHRAE Standard 90.1-2013**

**Time:** 9:00am – 12:00pm  
**Cost:** $184 USD / $234 CAD ($139 USD / $177 CAD ASHRAE Member)

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

**Instructors:** McHenry Wallace, P.E., Member ASHRAE, LEED® AP  
Joseph Deringer, AIA, Member ASHRAE, LEED® AP

**Thursday, March 22, 2018**

**Save Over 40% Using Appendix G of ASHRAE Standard 90.1-2016**

**Time:** 9:00am – 12:00pm  
**Cost:** $184 USD / $234 CAD ($139 USD / $177 CAD ASHRAE Member)

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

**Instructors:** McHenry Wallace, P.E., Member ASHRAE, LEED® AP  
Joseph Deringer, AIA, Member ASHRAE, LEED® AP
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

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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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.**

Contact: Linda Gauld [linda.gauld@ibigroup.com](mailto: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.

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  Or Send Check and copy of business card to Twin Tier News Letter Editor:
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  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:Andrew.Nice@twintiers.ashraechapters.org)
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”

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