



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 2019-2020



2020 GOLF TOURNAMENT & CLAMBAKE

**Where: The Links at Hiawatha
Landing**

**When: Tuesday August 4, 2020
@ 10:30AM**

To register, visit the Chapter website:

<http://twintiers.ashraechapters.org>

Please send all newsletter comments to:

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

[Email the Editor](#)

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



Corner

President's

Dear Twin Tiers Chapter Members,

It has been a few months since we have all had the opportunity to gather in person, but I hope you and your families are continuing to stay well and healthy during this time. As various regions begin to slowly reopen, it looks like we may start to get back to somewhat of a "new normal" throughout the course of the summer.

Our Chapter recently wrapped up our 5 part weekly "Spring PDH Webinar Series", in lieu of the typical in person Spring Symposium and May Chapter Meetings that we would normally host. We hope that our members were able to tune into one, a few, or all of the webinars, and found the subject matter interesting and informative. Again, a special thanks to our Chapter Vice President Adam Keller for his work to set-up and facilitate these webinars for our members, and in getting all of the courses submitted and approved for NYS PDH credit.

A reminder that the Twin Tiers Annual Golf Tournament and Clambake has been postponed this year from its original June date to Tuesday August 4th, in light of the current state reopening structure and the continued social distancing recommendations. Save the date! We hope you are able to join us on the new date - be on the lookout for a tournament flyer, sign up information, and pricing information as the tournament date draws nearer. We greatly appreciate the support of our many industry partners, companies, individuals, and sponsors who join us every year at this event – it always promises to be a great time for everyone!

As we approach the end of our 2019-2020 ASHRAE season, I am happy to announce that the Chapter is on track to maintain its premier status for another year. Thank you to all of the board members and committees for your hard work in making this past year another great year for the Chapter and in achieving this goal, despite the challenges and unpredictability that have been faced in the past months. I am thankful for the great group of officers, committee chairs, and board members who I have had the pleasure of working alongside – they are truly the ones who put in the work to make each year a success. It has been my honor to serve in the various officer positions for the Chapter these past few years, and to serve as the 2019-2020 Twin Tiers Chapter President. I hope that you are all able to enjoy the rest of your summer, and we look forward to seeing everyone again at the golf tournament and clambake in August!

Regards,
Kyle Nedlik
ASHRAE Twin Tiers 2019-2020 Chapter President

Chapter President



Kyle Nedlik
(607) 321-6100
[Email Me!](#)

2019-2020 Chapter Officers

President-Elect
Devin Shapley
(607) 723-9421
[Email Me!](#)



Vice President
Adam Keller
(315) 484-9526
[Email Me!](#)



Treasurer
Matthew Lloyd
(607) 239-3956
[Email Me!](#)

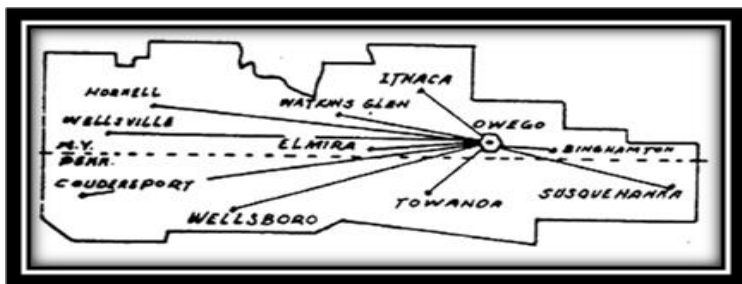


Secretary
Victoria Kramer
(607) 321-6100
[Email Me!](#)



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Twin Tiers Chapter

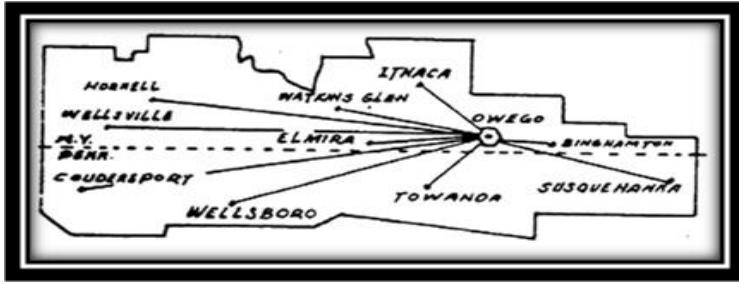
Presidential Award of Excellence (PAOE)

	Chapter Operations	Chapter Technology Transfer	Electronic Communications	Grassroots Government Activities	Historical	Membership Promotion	Research Promotion	Student Activities	Young Engineers in ASHRAE
MIN/ PAR	600/1200	450/1050	250/500	500/650	100/300	500/800	800/1050	300/500	300/800
Current	1235	1450	780	1000	1105	755	1210	990	1050

POINTS CURRENT AS OF 6/25/2020

Chapter Committee Chairs

Technology Transfer Devin Shapley (607) 723-9421 Email Me!	Government Activities Adam Keller (315) 484-9526 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 Kyle Nedlik (607) 321-6100 Email Me!	Meeting Reception Matthew Lloyd (607) 239-3956 Email Me!	H.O. Ward Scholarship Richard Sanguinito (607) 231-6605 Email Me!
Research Promotion Glenn Roberts (315) 234-1527 Email Me!	Student Activities Jason Gilbert (607) 777-2240 Email Me!	Membership Directory Chris Wolak (484) 350-1954 Email Me!	Albern Education Fund Jason Gilbert (607) 777-2240 Email Me!
Honors & Awards Kyle Nedlik (607) 321-6100 Email Me!	Historian Richard Sanguinito (607) 231-6605 Email Me!	Symposium– Fall/Spring Adam Keller (315) 484-9526 Email Me!	Auditing Rick Sanguinito & Andrew Nice (607) 231-6605 / 607-760-5960 Email Me!
Webmaster Petros Papathomopoulos (607) 723-9421 Email Me!	Newsletter Editor Andrew Nice 607-760-5960 Email Me!	YEA: Young Engineers Dana Schmitt (315) 920-0487 Email Me!	Publicity Andrew Nice 607-760-5960 Email Me!



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

2020-21 Twin Tier ASHRAE Officers

2020-21 Officer Instatements

President – Devin Shapley

President-Elect – Adam Keller

Vice President – Matthew Lloyd

Treasurer – Victoria Kramer

Secretary – Dana Schmidt

2020-21 Chair Position Instatements

Grassroots Government Activities Chair - Adam Keller

Membership Promotion Chair – Chris Wolak

Student Activities Chair – Jason Gilbert

Research Promotion Chair - Michael McGinnis

Webmaster – Petros Papathomopoulos

Historian – Richard Sanguinito

Newsletter Editor – Andrew Nice

Publicity – Andrew Nice

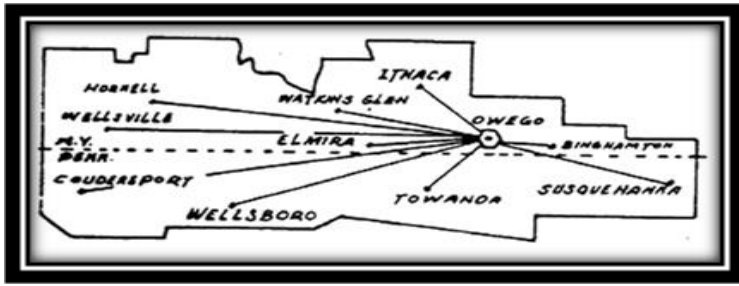
YEA – Kyle Nedlik

Golf & Clambake Chair – Travis Fisher & Mike McGinnis

Audit Committee – Richard Sanguinito & Andrew Nice

Thank you to all our volunteers for
this upcoming year!

If you or someone you know is interested in
volunteering their time please contact
Kyle Nedlik at this [email](#).



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

H.O. WARD SCHOLARSHIP AWARD



By
Rick Sanguinito Scholarship Chair 2018-2019

H. O. WARD SCHOLARSHIP

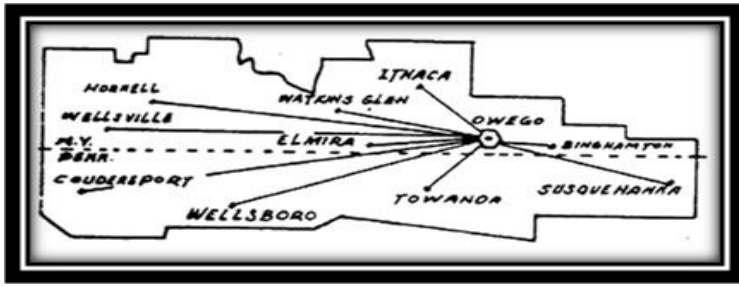
Date: June 25, 2020

Congratulations to the H.O. Ward Scholarship this year. The Twin Tiers Chapter of ASHRAE is issuing the following Scholarships for 2020:

- Jack Fitzgerald \$1,000 Scholarship
- Daniel T Abrahamsen \$500 Scholarship
- Tyler N Seccafico \$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.



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

Twin Tiers Chapter– Monthly Meeting Information

2019-2020 Meeting Dates:

Date:	Speaker	Tech Session Topic, Tour or Meeting Info	Attendance:
17-Sep	Richard Reichenbach - Sporlan	Flame-Free Refrigerant Fittings	-
15-Oct	Multiple/TBD	Fall Engineering Symposium—Daytime	-
20-Nov	Eric LePore, P.E. - Cornell University	Koffman Southern Tier Incubator Tour Research Promotion Night	18
17-Dec	Paul Torcellini, Ph.D. Distinguished Lecturer	The Advanced Energy Design Guide for Zero Energy Buildings Past President & History Night	-
21-Jan	Michael Martin, P.E. McFarland Johnson	SUNY Broome Calice Advanced Manufacturing Center Membership Promotion	22
18-Feb	M. Stanley Whittingham Binghamton University 2019 Nobel Prize Laureate in Chemistry	The Origins of the Lithium-Ion Battery, the Nobel ex- perience and the potential impact of Energy Storage.	-
17-Mar	Binghamton University School of Nursing Tour	Binghamton University School of Nursing Tour Student Night & YEA	CANCELLED
21-Apr	Multiple/TBD	Spring Engineering Symposium—Daytime	CANCELLED
19-May	Brewery Tour	Presentation/Tour: TBD	CANCELLED
4-Aug	None	Golf Tournament	NEW DATE

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

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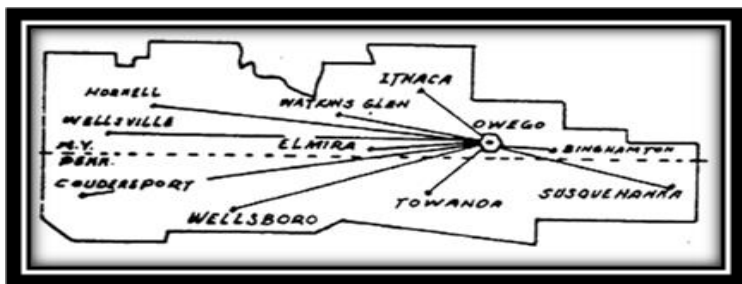
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[Twin Tiers Annual Golf Tournament!](#)

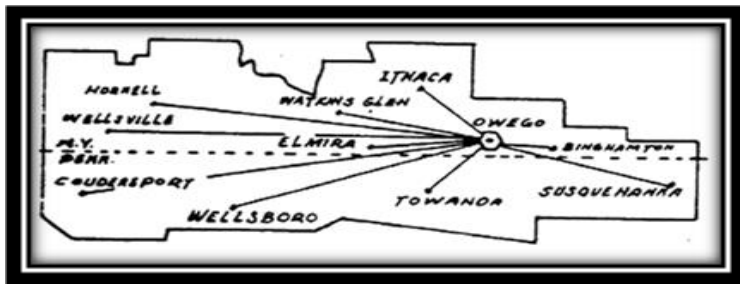


Annual Golf Tournament and Clambake

The date for the annual golf tournament and clambake is **Tuesday, August 4.** 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 Travis Fisher or Mike McGinnis with any questions. Thank you.



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

Twin Tiers Annual Golf Tournament!

2020 Golf Tournament & Clambake - Tuesday, August 4, 2020

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

Golf Tournament:

The Links at Hiawatha Landing

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

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

Clambake:

The Links at Hiawatha Landing

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

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

Captain's Name & Company: _____

Travis Fisher

For tickets or more information, contact: (607) 972-1342

tf222@cornell.edu

Package	Early Bird Price (on or before 7/10)	Regular Price (After 7/10)
Golf only (<u>4 person</u> team)	\$300	\$325
Golf, 4 Clambake tickets, Putting Contest for 4	\$525	\$575
Golf, 4 Clambake tickets, Hole Sponsor, Putting Contest for 4	\$600	\$675
Hole Sponsor (includes 1 clambake ticket)	\$115	\$130
Clambake Tickets	\$50	\$60

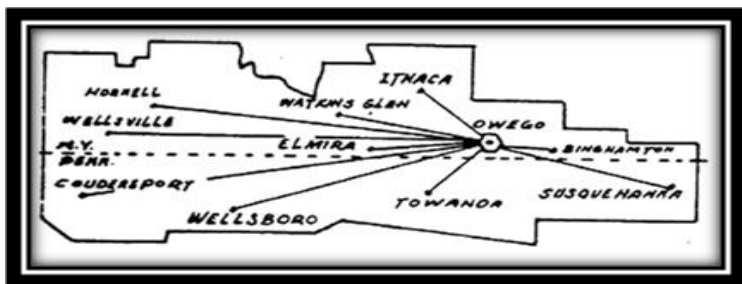
Note: All forms and payment must be received by July 24, 2020

Payment & Registration may be completed online @

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

Checks should be made payable to Twin Tiers ASHRAE.

Please mail checks to Travis Fisher, 51A Goodrich Road, Owego, NY 13827



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

[Twin Tiers Annual Golf Tournament!](#)

2020 Golf Tournament & Clambake - Tuesday, August 4, 2020

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

Golf Tournament and Clambake:

The Links at Hiawatha Landing

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

Individual Tee & Hole Sponsorship

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

- ❖ The cost is **\$130.00** per hole or tee (\$115 if your payment is received by the early-bird deadline of 7/10).
- ❖ **A free clam bake ticket is provided for you as a sign of our gratitude.**

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

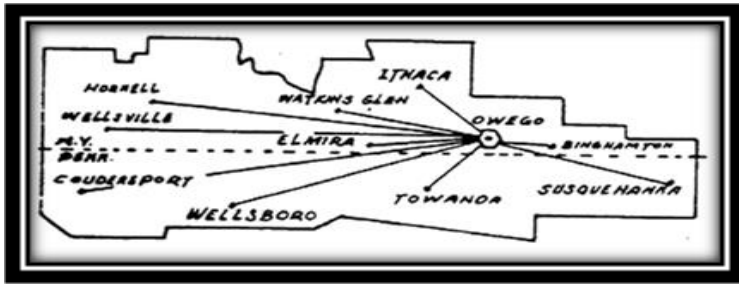
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(607) 972-1342
tf222@cornell.edu

Note: All forms and payment must be received by **July 24, 2020**

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Please mail checks to Travis Fisher, 51A Goodrich Road, Owego, NY 13827



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Twin Tiers Chapter - April BOG Meeting Minutes



<http://twintiers.ashraechapters.org>

Board of Governors Meeting

Date: April 14, 2020

Location: Online Zoom Meeting

<https://binghamton.zoom.us/j/349161720>

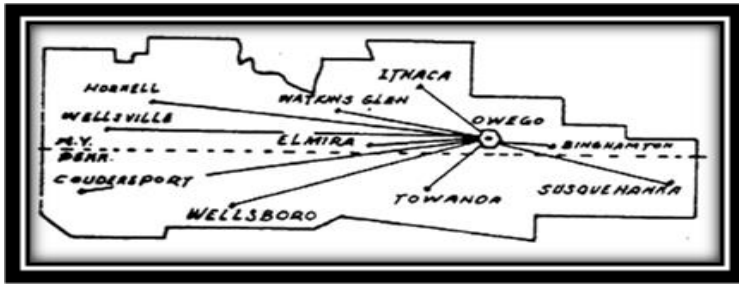
Call: 1-929-205-6099

Meeting ID: 349 161 720

Agenda

Meeting minutes indicated in red

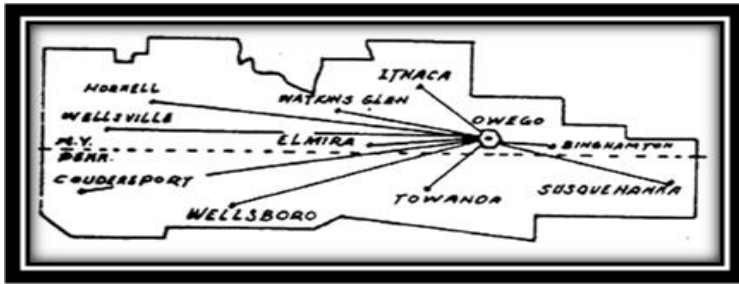
- Call to Order and Attendance:
 - Call-in: Jason Gilbert, Chris Wolak, Rick, Glenn Roberts, Matt Lloyd, Travis Fisher, Devin Shapley, Rob VanSkiver, Kyle Nedlik, Adam Keller, Dana Schmidt, Victoria Kramer, Mike McGinnis
- Old Business:
 - Vote to approve the March Meeting Minutes
 - March minutes to be updated to show account balances as of 3/17/2020.
 - Motion to vote: Kyle Nedlik
 - Second: Matt Lloyd
 - March meeting minutes are approved pending revision noted.
- Treasurer's Report (Matt Lloyd):
 - Account Balances
 - M&T: \$ 7,478.98 (as of 4/14/2020)
 - PayPal: \$ 157.13 (as of 4/14/2020)
 - H.O. Ward \$ 21,450.12 (as of 4/14/2020, Principal: \$20,000)
 - William & Joan Alber: \$ 22,425.44 (as of 4/14/2020, Principal: \$20,000)
 - Alber and H.O. Ward grant application status for scholarship / DL reimbursement
 - Checks have not yet been generated. Matt to request checks from M&T to be mailed to Rick.
 - Rick to notify recipients and mail checks
 - Alber fund is dedicated for education
 - Due to market down turn, there currently isn't enough in the account to fully reimburse. Likely reimburse HO Ward account from checking account. Reevaluate in a month.
 - Any outstanding reimbursements?
 - Super Bowl Payment to Meier Supply finalized?
 - Finalized
 - President elect training has been cancelled. Devin paid the chapter back for previously issued hotel reimbursement.
 - Status of CRC is unknown. Kyle to check in with committee.
- CTC (Devin Shapley/Adam Keller):
 - Previously proposed May meeting to be BCC Culinary School (5/19/2020) – based on current school status this will be unlikely to be able to occur
 - Could potentially incorporate one of our PDH Webinars on this date for our meeting
 - President Elect Training is cancelled
 - Consider online PDH training in lieu of May meeting
- YEA (Dana Schmidt):
 - In person social events on hold while COVID-19 situation pans out - any opportunities for a YEA event in the virtual environment?
 - Consider virtual session with students
 - Consider virtual network event for strictly YEA



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

Twin Tiers Chapter - April BOG Meeting Minutes (Cont.)

- Membership Promotion (Chris Wolak):
 - Update on outstanding membership renewals, new members
 - 5 delinquent members. 2 may be students who registered for associate membership. Chris to follow up.
- GGAC (Adam Keller):
 - Updates?
- Student Activities (Jason Gilbert):
 - Student presentation on 2020 ASHRAE Winter Conference Trip
 - Amanda Pelkey and Jalaal Shah-Taylor presented on trip prior to meeting
 - Other updates?
- History/Scholarship (Rick Sanguinito)
 - Scholarships delivered to recipients?
 - \$1,000 – Jack Fitzgerald \$500 – Tyler N Seccafico \$500 – Daniel Abrahamsen
- Research Promotion (Glenn Roberts / Mike McGinnis):
 - Status of polo distribution (Victoria)
 - Holding until next event
 - Putting contest at golf tournament
 - Any additional fundraisers scheduled?
 - Nothing right now
 - Rick to look into options to obtain 10 more RP points
- Special Events
 - Adam – Symposium
 - Review current webinar schedule
 - Platform to be used to host webinar?
 - Update website with webinar schedule and signup info
 - Send out email communication with webinar schedule and signup info
 - Organizing online PDH sessions
 - During lunch, one per week starting late April through May
 - Adam is coordinating approvals for PDH
 - Free, consider providing RP links
 - Certificates to be issued via email.
 - Zoom allows for download of chat window. Could ask attendees to enter name and email.
 - Golf tournament updates
 - Backup date requested from the course just in case – any reply on options?
 - Rescheduled until early August. Schedule for Tuesday, Aug 4
 - Send out save the date flyer for tentative date of Aug 4
 - Updates



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

Twin Tiers Chapter - April BOG Meeting Minutes (Cont.)

- PAOE (Kyle Nedlik): See below (as of 4/7/2020)

CATEGORY	PAR	MIN	PTS
<u>Chapter Operations*</u>	1200	600	1225
<u>Chapter Technology Transfer*</u>	1050	550	1250
Communications	500	250	780
<u>Governmental Affairs*</u>	650	500	1000
Historical	300	100	980
<u>Membership Promotion*</u>	800	500	550
<u>Student Activities*</u>	500	300	990
<u>RP*</u>	1050	800	1040
<u>YEA</u>	800	300	900
Total	3/6 and 5/9	8/9	5/9

Pts – Have NOT Achieved Min

Pts – Have Achieved Min, but not PAR

Pts – Have Achieve PAR

- PAOE: Minimum in 5 of the following 6 categories: Chapter Operations, Chapter Technology Transfer, Governmental Affairs, Membership Promotion, RP and Student Activities - **Complete**
- Special Citation: Minimum in 5 of the 6 categories, with a minimum of 5,500 points - **Complete**
- STAR: PAR in all categories - **Incomplete**
- Honor Roll: PAOE for at least four consecutive years - **Complete**
- High Honor Roll: STAR for at least four consecutive years - **Incomplete**
- Premier:** PAOE every year since the chapter's inception or since 1970; minimum of four years; chapter's first year is excluded - **Complete**
- New Business
 - Intentions to serve on the board again next year – officers, BOG, and committee chairs, please let Kyle know for 2020-2021 CIQ, I will reach out to everyone and cc Devin to confirm
 - 2020 CRC Updates – Portland, ME, tentatively
- Open Floor

Motion to adjourn: Kyle Nedlik
Second: Victoria Kramer

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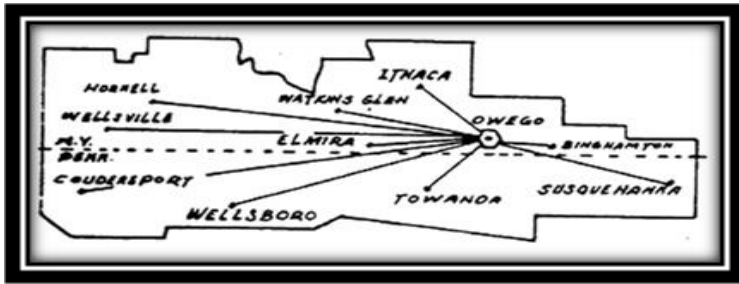
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What Were They Thinking???

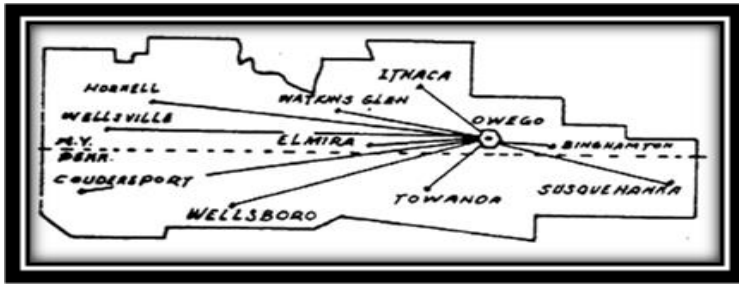
No air con? No problem 😊 #genius



I wonder if Tesla bought this person's design? Brilliant!

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!

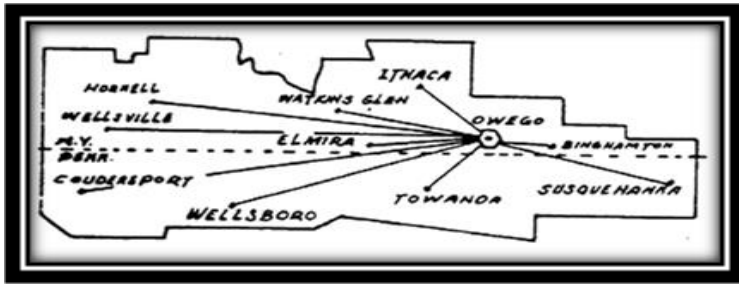
As a licensed professional in New York State, it is your professional responsibility to know the legal and ethical requirements governing the practice of your profession and to be alert to changes in those requirements. The New York State Board for Engineering and Land Surveying, in an effort to help 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>



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

2020 REGION 1 CRC & ASHRAE ANNUAL CONFERENCE

2020 REGION 1 CRC

- The Region I CRC (August 2020) will be moved to a virtual format. Additional information regarding the virtual meeting, including registration information, will be forthcoming. Business meetings will remain scheduled for their current dates/times. Workshop scheduling information will be forthcoming.
- You can check this website periodically for updates: [Region 1 CRC](#)

2020 ASHRAE ANNUAL CONFERENCE

- The ASHRAE Annual Meeting in Austin, TX (June 2020) has been moved to an online format. Members should contact ASHRAE to register for this event. Note that times of committee meetings may have changed. If you participate in a society-level committee we encourage you to contact your committee regarding meeting timing.
- Information on the virtual event, registration options, and the sessions offered can be found here: [ASHRAE 2020 Annual Conference](#)

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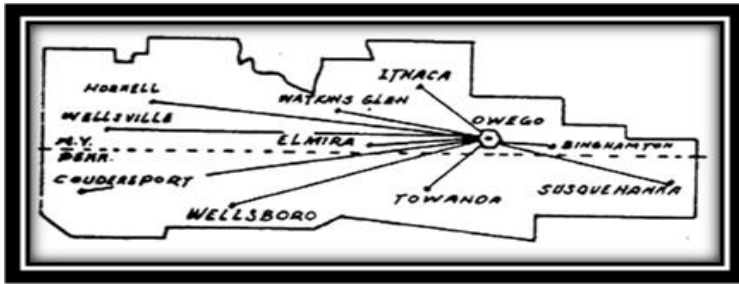
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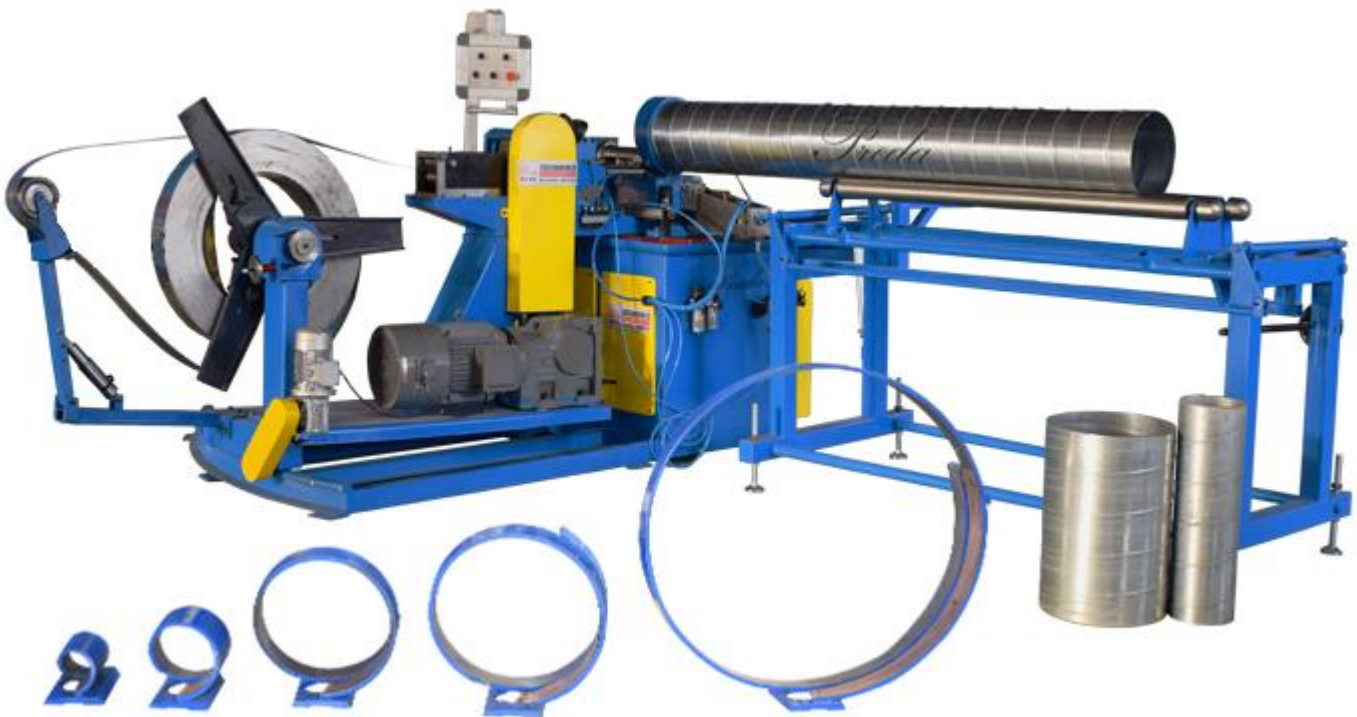


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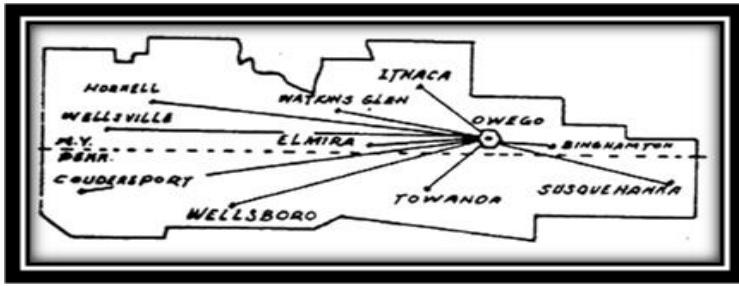
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Twin Tiers Chapter– Employment Opportunities



Estimator

ESTIMATOR – Entry Level Position

Requirements:

- o Ability to read & interpret architectural & mechanical drawings & specifications
 - o Working knowledge of air handling systems
- o Computer skills – familiar with business systems, excel spreadsheets
 - o Company training provided for dedicated estimating system
 - o Ability to work within team environment
 - o AAS degree preferred

For more information or to submit resumes contact:

sendresume2hrnow@gmail.com

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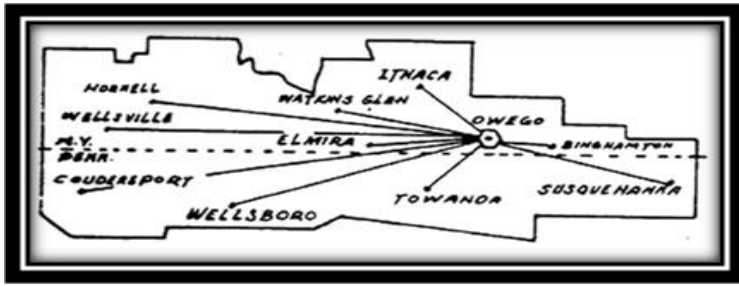


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Founder & Owner
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American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

Twin Tiers Chapter– Business Cards Advertisement for Newsletter

ITS NEVER TO LATE! To ADVERTISE your business card:

- Current business card adds will expire at the end of this year, December 31, 2019.
- New subscription will run the calendar year 2020.
- Cost to advertise for the 2020 year is \$50.
- Sign up now for the 2020 year On Pay Pal <http://twintiers.ashraechapters.org/page-newsletter.html>

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 [Twintier Newsletter Editor Email](mailto:TwintierNewsletterEditor@gmail.com).

From Web site please visit: <http://twintiers.ashraechapters.org/page-newsletter.html>

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

Business Card Advertising 2020

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 2020. 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 2020 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

**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"***

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