



Twin Tiers Chapter

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 2018-2019



Shaping Tomorrow's
Built Environment Today

November Meeting

November 13, 2018

PRESENTATION:

**VFD Drive Basics &
Mitigating Drive Harmonic Effects**

PRESENTER:

Kevin Diehl - Yaskawa America, Inc.

TWIN TIERS TALK



To register, visit the Chapter website:

<http://twintiers.ashraechapters.org>

Please send all newsletter comments to:

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

[Email the Editor](#)

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



Corner

President's

Dear Twin Tiers Chapter Members,

The ASHRAE year is in full swing with Thanksgiving quickly approaching.

Our next chapter meeting will be a presentation on Variable Frequency Drives on Tuesday November 13 in Binghamton. The tech talk will focus on VFD basics for the newer engineers/students and the dinner presentation will be on VFDs and harmonics, tailored to the mechanical engineering crowd. **Please note that the meeting will be the second Tuesday in November in order to avoid conflict with Thanksgiving week.** Also, our first YEA event will be held after the meeting at Galaxy Brewing.

The December meeting will back to the regular third Tuesday of the month (12/18). The meeting will be held in Ithaca with an ASHRAE Distinguished Lecturer as the presenter. The presentation will be creating a world of zero energy buildings. We will be honoring all of our past presidents at the meeting as well.

If you would like to get involved in the chapter operations or events, please feel free to reach out to me or any board member. We are always looking for new volunteers for the chapter. Thanks.

Mike McGinnis
Twin Tiers Chapter President

Chapter President



Michael McGinnis
(607) 727-3168
[Email Me!](#)

2018-2019 Chapter Officers

President-Elect

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



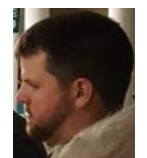
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Devin Shapley
(607) 723-9421
[Email Me!](#)



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Adam Keller
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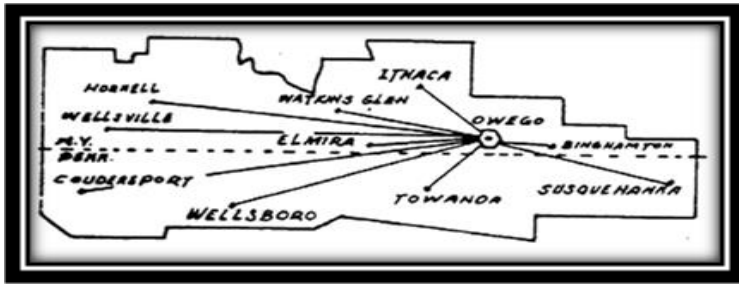
Secretary

Matthew Lloyd
(607) 239-3956
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Twin Tiers Chapter

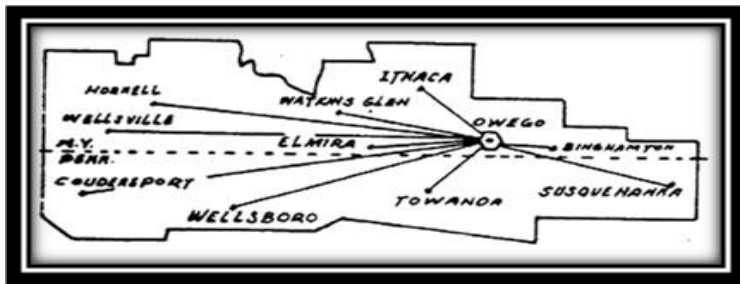
Presidential Award of Excellence (PAOE)

| | Chapter Operations | Chapter Technology Transfer | Electronic Communications | Grassroots Government Activities | Historical | Membership Promotion | Research Promotion | Student Activities |
|-------------|--------------------|-----------------------------|---------------------------|----------------------------------|------------|----------------------|--------------------|--------------------|
| MIN/ PAR | 600/1200 | 450/1050 | 250/500 | 500/650 | 100/300 | 500/800 | 800/1050 | 300/500 |
| Current | 765 | 25 | 225 | 50 | 285 | 310 | 0 | 50 |

POINTS CURRENT AS OF 11/12/2018

Chapter Committee Chairs

| | | | |
|---|--|---|--|
| Technology Transfer Kyle Nedlik (607) 321-6100 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 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 Michael McGinnis (607) 727-3168 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 Petros Papathomopoulos (607) 723-9421 Email Me! | Newsletter Editor Andrew Nice 607-760-5960 Email Me! | YEA: Young Engineers Victoria Kramer (607) 321-6127 Email Me! | Publicity Andrew Nice 607-760-5960 Email Me! |



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Twin Tiers Chapter– Monthly Meeting Information

2018-2019 Meeting Dates:

| Date: | Speaker | Tech Session Topic, Tour or Meeting Info | Attendance: |
|--------|--|---|-------------|
| 18-Sep | Brendan Harder, Beer Tree Brewing Co. | TOUR: Beer Tree Brewing Co. tour of their facilities. | - |
| 16-Oct | Multiple/TBD | Fall Engineering Symposium—Daytime | - |
| 13-Nov | Kevin Diehl, Yaskawa America | VFD Drive Basics & Drive Harmonic Effects <i>Research Promotion Night & YEA Night (YEA Event to Follow)</i> | - |
| 18-Dec | Paul Torcellini, PhD, PE, ASHRAE DL | Creating a World of Zero Energy Buildings <i>Past President's Night & History Night</i> | - |
| 15-Jan | Dennis Hoover, Alvogen | TOUR: Recent Production Suite Fit-Outs, Pharma Technologies <i>Membership Promotion Night</i> | - |
| 19-Feb | Jason Gilbert, Binghamton University Physical Facilities | TOUR: Binghamton University School of Pharmacy & Pharmaceutical Sciences Tour <i>Student Night</i> | - |
| 19-Mar | Speaker: TBD, Cornell University | TOUR: Cornell University Hydroelectric Plant Tour <i>Student Night & YEA Night</i> | - |
| 16-Apr | Multiple/TBD | Spring Engineering Symposium—Daytime | - |
| 21-May | Speaker: TBD | Brewery Tour <i>Donor Recognition Night</i> | - |
| 18-Jun | None | Golf Tournament | - |

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

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Branch Sales Manager



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Vice President/Director of MEP Services

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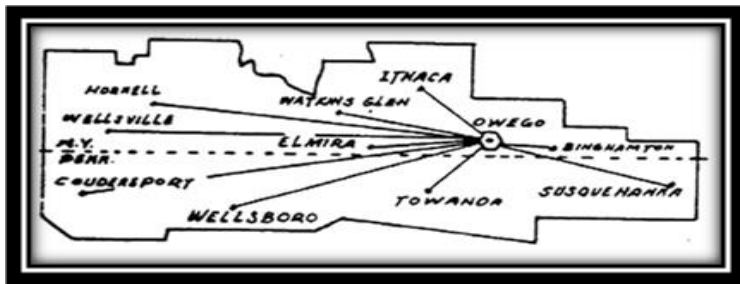
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History Report - CRC



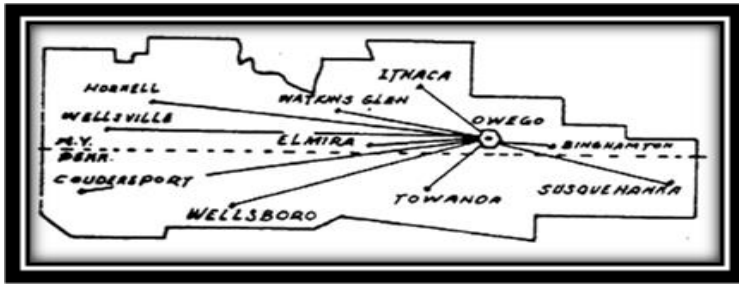
By
Rick Sanguinito Historian 2018-2019

AUGUST CRC Summary

Date: August 16-18, 2018

This year's Region 1 Chapter Regional Conference (CRC) was hosted by the New Jersey Chapter. The following people attended for our chapter

| | |
|------------------------|--|
| Petros Papathomopoulos | Chapter Delegate 2018 Past Chapter President 2017-2018 Board of Governors 2018-2019 |
| Michael McGinnis | Chapter President 2018-2019 Alternate 2018 |
| Jason Gilbert | Chapter Student Activities Chair 2018-2019 |
| Rick Sanguinito | Chapter Historian 2018-2019 Chapter Auditing Committee 2018-2019 Student Scholarship Chair 2018-2019 |
| Rob VanSkiver | Chapter Refrigeration Chair 2018-2019 Board of Governors 2018-2019 |
| Chris Wolak | Chapter Membership Promotion Chair 2018-2019 Board of Governors 2018-2019 |
| Glenn Roberts | Research Promotion Chair 2018-2019 |



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

History Report - CRC

TWIN TIERS ASHRAE 41TH YEAR AS PREMIER CHAPTER

(ONE OF 5 PREMIER CHAPTERS IN THE WORLD)

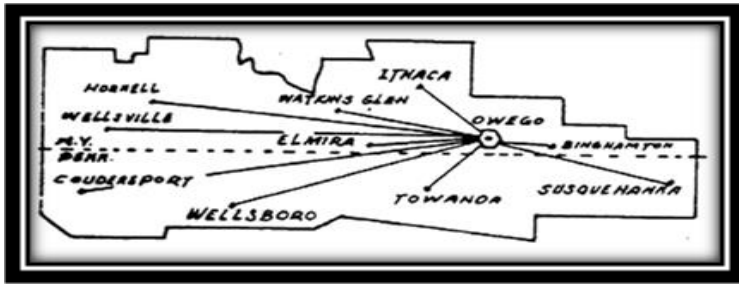
The Twin Tiers Chapter has received the PAOE award every year since our inception September 23, 1977



Photo 1: Twin Tiers Chapter has maintained its Premier status with Star award and Special Citation.

Photo 2: Petros Papathomopoulos Twin Tiers Chapter President Award of Excellent Community Sustainability Project.





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History Report - CRC



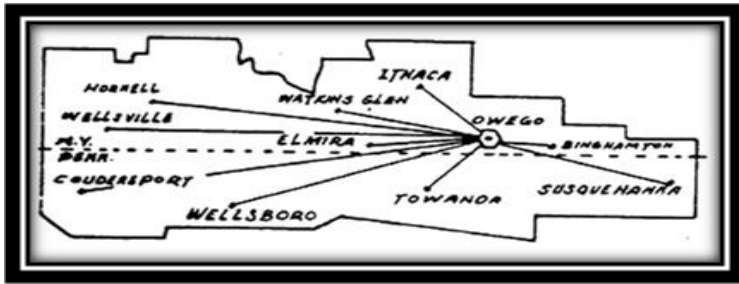
Photo 3: Twin Tiers Awards –
Kyle Nedlik Outstanding Performance
Chapter Program Honorable Mention.

Photo 4: Twin Tiers Awards – Michael
McGinnis Chapter Technology Transfer
Award of Excellence Honorable Mention.



Photo 5: Twin Tiers Awards –
Christopher Wolak Thomas S. Brown
Membership Award Honorable Mention.





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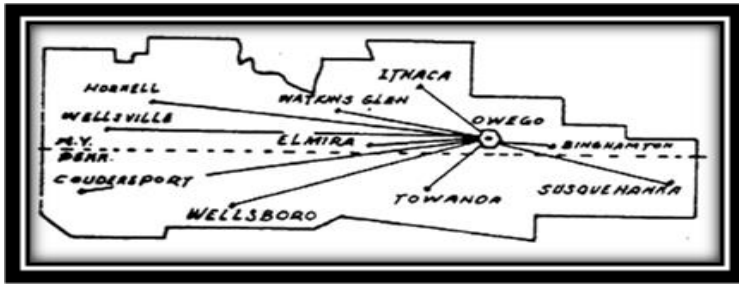
History Report - CRC



Photo 6: Twin Tiers History Display.



Photo 7: President Award Of Excellent (PAOE)2017-2018 - PREMIER Awards – Congratulation Petros Papathomopoulos!!



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

Research Promotion Message

Chapter Research Promotion

Dear ASHRAE Twin Tiers Member or Research Promotion (RP) Supporter,

As the RP Chair and a fellow member of the Twin Tiers Chapter, I wanted to personally ask you for your help in supporting ASHRAE Research. ASHRAE's research program, established in 1912, supports 140 research projects with a combined value of more than \$15 million. Research focus includes energy and resource efficiency, indoor environmental quality, design, operation and management tools, alternative technologies, and materials and equipment. Through scholarships, grants and awards, the Society supports engineering education for undergraduate students and research projects for graduate engineering students and new post-doctoral scholars.

For Research Information please see the following site:

<https://www.ashrae.org/standards-research-technology/ashrae-rp>

You can either donate directly with a credit card, see link below:

<https://xp20.ashrae.org/secure/researchpromotion/rp.html>

or send a check to:

ASHRAE Research Promotion
att. Patricia Adelman
1791 Tullie Circle NE
Atlanta, GA 30329

Make check payable to "RP Donation-ASHRAE Twin Tiers"

Again, a personal *Thank You* for the following who have donated last year:

Matthew Hawley
Kyle Nedlik
Devin Shapley
Raymond Millard
Michael McGinnis

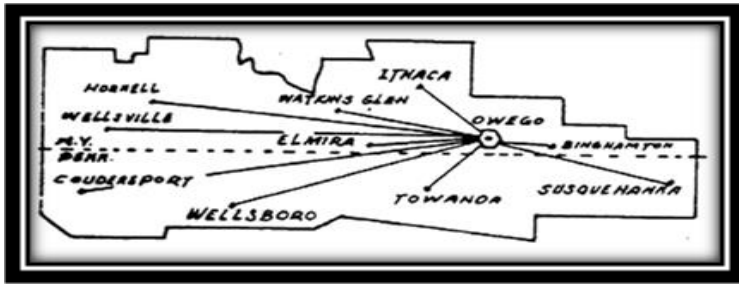
Petros Papathomopoulos
Adam Keller
Arthur Monaco
Michael Colwell

Glenn Roberts
BHV Sheet Metal Fabricators
Mark Mattina
Norman Scott

I hope that ASHRAE and I can count on your support this year.

Email me, or come see me at a Chapter Meeting if you have any questions.

Glenn Roberts
Twin Tiers Research Promotion Chair
[Email Me](#)



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History Report - September



By
Rick Sanguinito Historian 2018-2019

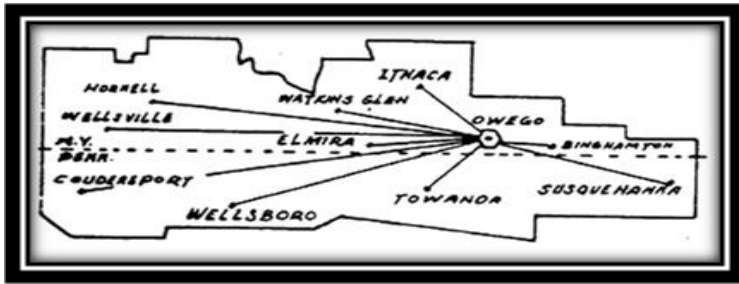
SEPTEMBER Meeting Summary

Date: SEPTEMBER 18, 2018

The September 2018 meeting was a social gathering at the Beer Tree Brewing Company. The tour started at 5:15 PM. Tour presentation was given by Brendan Harder, Beer Tree Brewing Company

Beer Tree Brewing Company is a craft brewery founded in Port Crane, NY, in October of 2017 by Brendan Harder and Chris Rhoades. Both previously worked as managers at Amphenol Aero-space in Sidney, NY. The brewery includes an 1,800 square foot taproom, an indoor brewing area, two outdoor patios, and 15 acres of surrounding land. The tour included the building's mechanical/HVAC systems, and an in depth overview of their brewing equipment and their standard brewing processes, and talk about the history of the brewery, from their started to where they are today.

Members that attended included the following: Mike McGinnis, Devin Shapley, Petros Papathomopoulos, Adam Keller, Jason Gilbert, Matt Lloyd, Kyle Nedlik, Gary Hilton, John Roberts, Victoria Kramer, Kevin McKeon, Emily Ormsby, Chris Hackett, Dana Schmidt, Matt Hawley



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History Report - September



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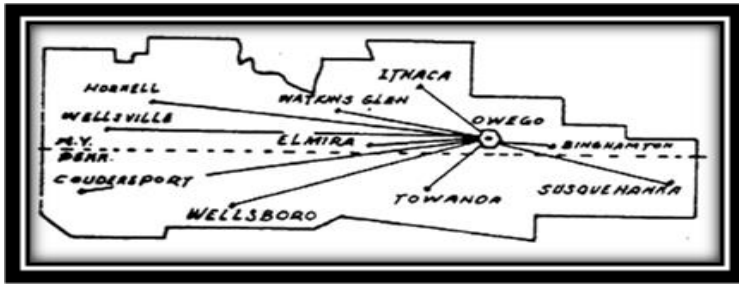
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Twin Tiers ASHRAE H.O. Ward Scholarship



By
Rick Sanguinito H.O. Ward Scholarship Chairman 2018-2019

H. O. WARD SCHOLARSHIP

Date: November 12, 2018

In 2018 we had three scholarship recipients:

| | |
|----------------|---------------------|
| Tara Dulak | \$1,000 Scholarship |
| Brandon Link | \$500 Scholarship |
| George Pappass | \$500 Scholarship |

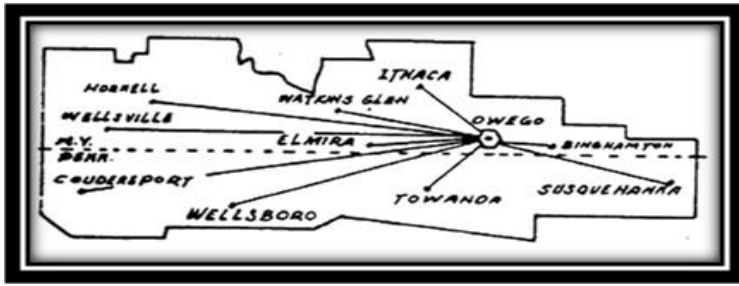
We are offering scholarship opportunities for student members, children of members, grandchildren of members, nephews and nieces of members.

Please consider passing this application to your children or grandchildren. The program is guided for HVAC interest.

This would include but not limited to

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

APPLICATIONS MUST BE SUBMITTED BY FEBRUARY 15, 2019



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

November Chapter Meeting Announcement

November 13, 2018

ASHRAE Twin Tier November Chapter Meeting

DATE: Tuesday, November 13th, 2018

TIME: 5:00 PM

MEETING DoubleTree by Hilton

LOCATION: 225 Water Street
Binghamton, NY 13901

PRESENTATION: VFD Drive Basics & Mitigating Drive Harmonic Effects

SPEAKER: Kevin Diehl - Yaskawa America, Inc.

DESCRIPTION: **Presentation 1** – VFD Basics – This presentation will go over the basics of VFD drives, for our junior-mid level engineers and students in attendance. This discussion will include what VFDs are, where they are used, when it is appropriate to use them, and why they are useful, amongst other topics.
Presentation 2 – VFD Drive Harmonics, and How to Mitigate Them - Harmonics are created by AC drives, and they affect the power grid as well as equipment found in buildings. There are ways that VFD drive harmonics can be decreased to be less of an issue. This presentation will dive into how harmonics are created by drives, reasons why harmonics aren't good, and explore how to mitigate them. Additionally, this presentation will discuss the value of shaft grounding on VFD controlled motors and discuss what negative effects shaft grounding prevents.
Kevin Diehl is an AC Drive Sales Engineer with Yaskawa America, Inc. in the Rochester area, and has over 30 years of experience in the engineering industry.
Following our Chapter Meeting, please join us for a fun YEA Networking Event at Galaxy Brewing Co.

AGENDA: 5:00 – 5:15: Arrivals
5:15 – 6:00: Presentation #1: VFD Drive Basics
6:00 – 6:30: Chapter Meeting, RP, Begin Dinner
6:30 – 7:15: Presentation #2: VFD Drive Harmonic Effects, and How to Mitigate Them
Following Meeting: YEA Networking Event at Galaxy Brewing Co. (Begins approx. 7:30PM)

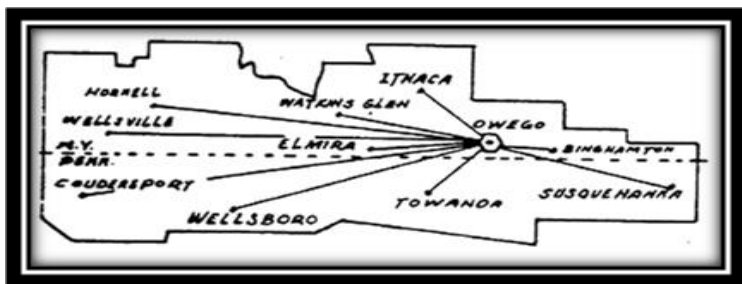
MENU: *Buffet Dinner*

REGISTRATION: Register online at <http://twintiers.ashraechapters.org/> (Under the "Programs" Tab)
\$25.00 Early Registration (By 11/9/2018)
\$30.00 (After 11/9/2018)

CONTACT: Kyle Nedlik
(Please call, text, or email me at below with any questions or if you get lost)

E: [Email Me!](mailto:kyle.nedlik@yaskawa.com)

C: (607) 321-6100



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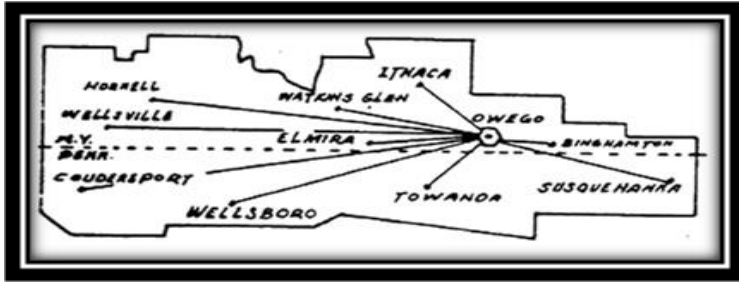
What Were They Thinking???



Duct Tape knows no limits!

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

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



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TRAINING



New York State Professional Engineers **Self Study Ethics PDH Available!**

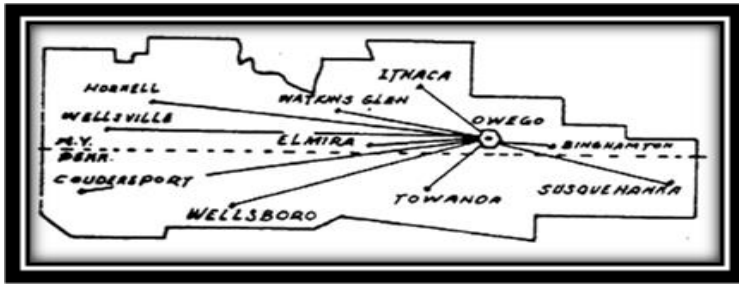
As a licensed professional in New York State, it is your professional responsibility to know the legal and ethical requirements governing the practice of your profession and to be alert to changes in those requirements. The New York State Board for Engineering and Land Surveying, in an effort to help you stay abreast of your professional responsibilities, has developed this short, self-study educational activity in ethics.

This educational activity is based on the New York State Education Law Articles 130 and 145, the Rules of the Board of Regents Parts 1, 3, 17, 18, 28, 29, 31, and the Regulations of the Commissioner of Education Parts 59 and 68. It is strongly recommended that, prior to taking the self test, you review these [foundational materials](http://www.op.nysed.gov/prof/pels/pelaw.htm) (<http://www.op.nysed.gov/prof/pels/pelaw.htm>) on the engineering web site.

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

Take Your PE Ethics Self Test Here!

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



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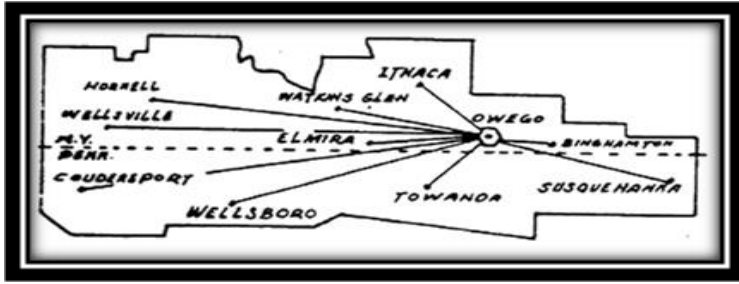
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ASHRAE RESEARCH PROJECT



RESEARCH MATTERS

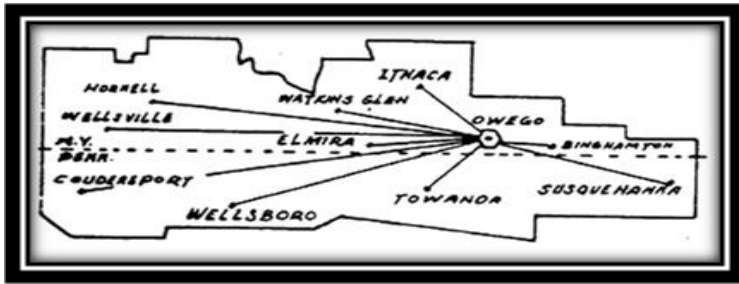


We need your help!

We are looking for **middle schools, high schools and 2 to 4 story office buildings** from around the country that were designed to comply with ASHRAE 90.1-2010 (or equivalent) or ASHRAE 90.1-2004 code (or equivalent).

Why? We are conducting a study to collect and analyze basic building data including actual monthly energy use of 168 secondary schools and medium offices in 14 climate subzones across the U.S. The study will be based on actual energy cost analysis, with supporting building energy modeling, energy audits, and surveys of construction, facility, and operations staff. The study will be used to determine common factors among best and worst buildings and to provide recommendations for future energy codes and standards developments.

Do you know of any such building and want to help the project? Please contact the Principal Investigator, Dr. Joe Zhou, at jzhou@seventhwave.org, or phone: 608.210.7155, or fill out a simple, two-minute [online survey](#). We will then contact the building owner or designer for additional information.



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

Twin Tiers Chapter– Employment Opportunities



Design Your Career

Senior Mechanical Engineer – Buildings

Our Buildings practice keeps people at its heart, recognizing that our shared journey forward is shaped by the meaningful and responsive places we design. From iconic designs to monumental groundbreakings, join us to bring transformational building solutions to life. Every day we apply our expertise, creativity, and passion to propel communities into the future—join us!

Your Key Responsibilities

- Preparation of specific 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

- Registered PE in the state of New York desired, registration in other states a plus
- Must have strong Mechanical Engineering skills in the area of 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

Education and Experience

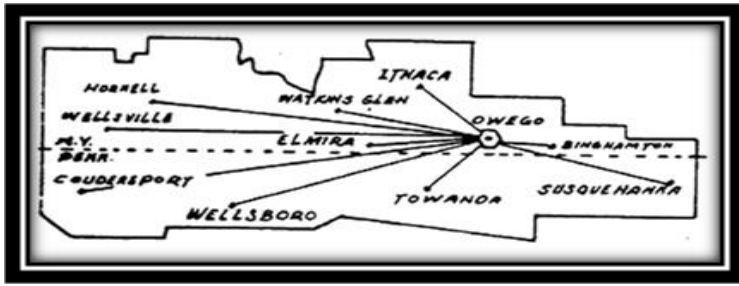
Bachelor's degree in Mechanical Engineering
A minimum of 8 – 12 years' experience is required

This description is not a comprehensive listing of activities, duties or responsibilities that may be required of the employee and other duties, responsibilities and activities may be assigned or may be changed at any time with or without notice.

Stantec is a place where the best and brightest come to build on each others' talents, do exciting work, and make an impact on the world around us. Join us and redefine your personal best.

Please apply online or directly at:
(Endicott)

<https://stantec.jobs/endicott-ny/senior-mechanical-engineer-buildings/D1F3DB82CD724315831E3B823AD94301/job/>



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

Twin Tiers Chapter– Business Cards Advertisement for Newsletter

ADVERTISE your business card:

- Current business card adds will expire at the end of this year, December 31, 2018.
- New subscription will run the calendar year 2019.
 - Cost to advertise for the 2019 year is \$50.
- Sign up now for the 2018 year On Pay Pal <http://twintiers.ashraechapters.org>

Or Send Check and copy of business card to Twin Tier News Letter Editor:
Meier Supply Co.
Attn: Andrew Nice
275 Broome Corporate Parkway
Conklin, NY 13748

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

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

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

Business Card Advertising 2019

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 2019. 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

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



Comments? Suggestions?

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

We welcome your feedback!



ASHRAE Mission Statement

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

Ethics Requirement for PE

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

ASHRAE Vision Statement

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

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

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

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

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