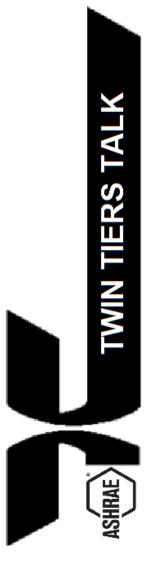


American Society of Heating, Refrigerating, and Air Conditioning Engineers Inc.

Special points of interest:

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



ASHRAE 2019-2020



January Meeting Tuesday January 21, 2020

Membership Promotion Month

PRESENTATION:

Tour & Presentation on SUNY Broome's Calice Advanced Manufacturing Center

> Presenter: Michael Martin, P.E. McFarland Johnson

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

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

Corner



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President'

Twin Tiers Chapter Members,

Happy New Year to all our dedicated chapter members! We hope everyone enjoyed our December meeting - thank you to all of those who made the trek to Ithaca in the winter weather. Our distinguished lecturer, Paul Torcellini, was well worth the drive. The YEA event following the meeting also ended up being a fantastic networking opportunity for those who attended.

Our January chapter meeting will be a tour of SUNY Broome's recently completed Calice Advanced Manufacturing Center, followed by a buffet dinner and presentation by McFarland Johnson's Michael Martin at McGirk's Irish Pub. The Calice Advanced Manufacturing Center showcases several green energy systems such as ground source heat pumps and rooftop photovoltaic systems, that were procured through several different funding sources including grants. During the presentation, Michael will discuss with our group the challenges faced during design and the grant application processes, and an overview of the construction of the project.

January is also our Chapter's annual "Membership Promotion night. The beginning of the year is a great time to renew your membership for the upcoming year. As a reminder, membership in ASHRAE provides access to, and discounts on industry publications, as well as continuing education courses and opportunities for professional development, networking with other industry professionals, local building tours, and much more. If you have any guestions on your current or past membership and membership renewal, please reach out to Chris Wolak at c129mp@ashrae.net or visit http://twintiers.ashraechapters.org/page-membership.html

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

Thanks. Kyle Nedlik ASHRAE Twin Tiers 2019-2020 Chapter President

Newsletter Disclaimer Statement

Statements made in this publication are not expressions of the Society or of the chapter and may not be reproduced without special permission from the chapter.

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!



(607) 239-3956 Email Me!

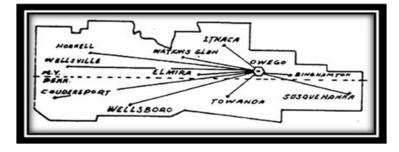
Matthew Lloyd

Treasurer

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



January 2020





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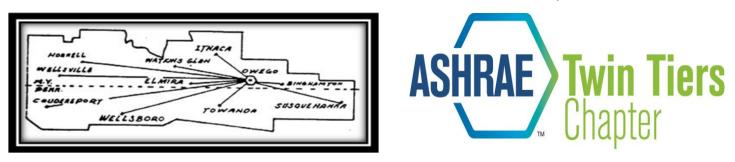
Twin Tiers Chapter

	Presidential Award of Excellence (PAOE)								
	Chapter Operations	Chapter Technology Transfer	Electronic Communi- cations	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	680	1100	755	400	930	500	860	255	800
	POINTS CURRENT AS OF 1/20/2020								

Chapter Committee Chairs

Technology Transfer	Government Activities	Refrigeration	Golf & Clambake Outing
Devin Shapley	Adam Keller	Rob VanSkiver	Michael McGinnis
(607) 723-9421	(315) 484-9526	(585) 591-8168	(607)727-3168
Email Me!	Email Me!	Email Me!	Email Me!
<i>Membership Promotion</i>	Nominating	Meeting Reception	H.O. Ward Scholarship
Chris Wolak	Kyle Nedlik	Matthew Lloyd	Richard Sanguinito
(484) 350-1954	(607) 321-6100	607) 239-3956	(607) 231-6605
<u>Email Me!</u>	Email Me!	Email Me!	Email Me!
Research Promotion	Student Activities	Membership Directory	Albern Education Fund
Glenn Roberts	Jason Gilbert	Chris Wolak	Jason Gilbert
(315)234-1527	(607) 777-2240	(484) 350-1954	(607) 777-2240
Email Me!	Email Me!	Email Me!	Email Me!
Honors & Awards	Historian	Symposium– Fall/Spring	Auditing
Kyle Nedlik	Richard Sanguinito	Adam Keller	Rick Sanguinito & Andrew Nice
(607) 321-6100	(607) 231-6605	(315) 484-9526	(607) 231-6605 / 607-760-5960
Email Me!	Email Me!	Email Mel	Email Me!
Webmaster	Newsletter Editor	YEA: Young Engineers	Publicity
Petros Papathomopoulos	Andrew Nice	Dana Schmitt	Andrew Nice
(607) 723-9421	607-760-5960	(315) 920-0487	607-760-5960
Email Me!	Email Me!	Email Me!	Email Me!

January 2020



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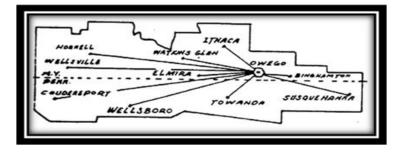
Twin Tiers Chapter- Monthly Meeting Information

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	-
18-Feb	Binghamton University Tour	Binghamton University Tour Student Night & YEA	-
17-Mar	Southern Tier Fabrication Tour	Southern Tier Fabrication Tour Student Night & YEA	-
21-Apr	Multiple/TBD	Spring Engineering Symposium—Daytime	-
19-May	Brewery Tour	Presentation/Tour: TBD	-
16-Jun	None	Golf Tournament	-

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

January 2020





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

<u>Twin Tiers Chapter–</u> <u>Business Cards Advertisement for Newsletter</u>

ITS NOT TOO LATE! To <u>ADVERTISE</u> 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 **Twin Tier Newsletter Editor Email**.

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

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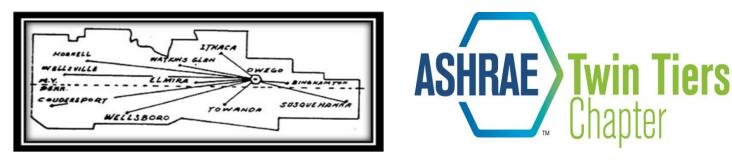
Engineering Specialist

26 Canterbury Trail Fairport, NY 14450 Email: Chris.Wolak@Victaulic.com

Cell: 484/350 1954

Jerone Gagliano PE, CEM Founder & Owner 607.592.4948 jerone@brightbuilding.app brightbuilding.app

January 2020



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

History Report - December



By Rick Sanguinito Historian 2019-2020

DECEMBER Meeting Summary

Date: December 17, 2019

The Advanced Energy Design Guide for Zero Energy Buildings

The December 2019 meeting was ASHRAE DL Presentation at the Ithaca Marriot on the Commons. Theme was Past Presidents Month, History Month

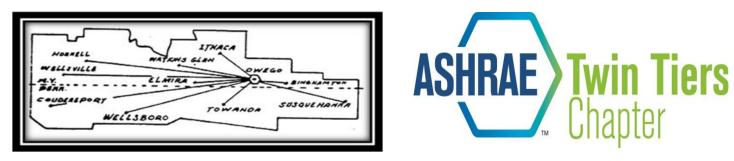
Technical speaker was ASHRAE DL presenter, Paul Torcellini

Attached are photos from the December ASHRAE meeting. Our ASHRAE DL presenter, Paul Torcellini, has 30 years of experience examining how energy is used in buildings - including delivery mechanisms, design, system integration, and operations. His focus is on creating buildings that have minimal environmental impact because of their operations, including very low energy buildings and zero energy buildings.

The lecture focused on setting energy goals and the technologies that can help achieve Net Zero building. Modeled after the 30% and 50% Advanced Energy Design Guides, the net zero guides focus on the processes and strategies to achieve zero energy buildings at typical construction budgets. The series, published by ASHRAE, was a collaborative effort of AIA, ASHRAE, IES, USGBC, and DOE. The first book in the series was published in January 2018 and focuses on K-12 schools and includes several case studies of schools that meet the zero energy requirements. His presentation provided a sneak preview of what is coming in offices will also be presented.

Members that attended included the following: Kyle Nedlik, Alisa Brown, Richard Mandl, Jonathon Ochshorn, Matt Lloyd, Chris Hackett, Ibrahima Balde, Devin Shapley, Kevin McKeon, Dana Schmidt, Emily Ormsby, Lyne Roglieri, Martin Sweeney, Matthew Decker, Victoria Kramer, Adam Keller, Todd Schmidt, Rick Sanguinito, Joe O'Hara, Glenn Roberts, George Lampila, Chris Balbach, Emmanuel Omere, Kahna, Paul Torcellini, Monica Furch

January 2020



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

Lecturer Paul Torcellini ter History Display Photos 3: Past President Mike McGinnis & President Kyle Nedlik

History Report - December

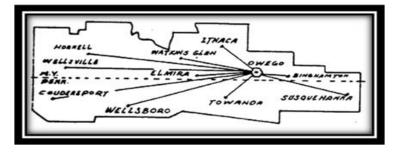
Photos 1: ASHRAE Distinguished

Photos 2: Twin Tier ASHRAE Chap-



Photos 4: YEA After Meeting Event

January 2020





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

Twin Tiers ASHRAE H.O. Ward Scholarship



Ву

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

H. O. WARD SCHOLARSHIP

Date: December 05, 2019

Twin Tiers Chapter,

It has been some time since a scholarship could be offered. We would like to reestablish the 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..

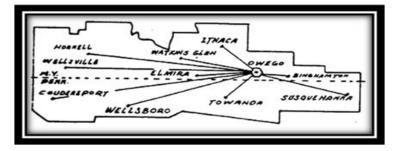
If you did not receive the application via our email and would like one please email us <u>HERE</u>.

APPLICATIONS MUST BE SUBMITTED BY FEBRUARY 15, 2020

January 2020

ASHRAE > Twin Tiers

Chapter 🕻



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

REMEMBERING HARRY E. ELLSWORTH

Harry E. Ellsworth

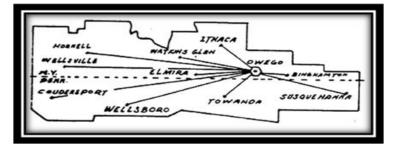
1934 - 2019

Harry E. Ellsworth, an ASHRAE Twin Tiers Chapter life member, founding charter member, past chapter officer and past chapter historian, passed away peacefully on Monday, December 9, 2019. Harry's obituary is copied below.

Harry, 85, was born in Endicott NY in 1934, and graduated from Clarkson University with a degree in mechanical engineering. During this time, he met and married Mary Jean Jacques. After some time in the Army Reserve, he worked for General Electric where he was involved in the construction of the early missile warning radar systems in Alaska and Greenland. As his career advanced, Harry and Mary also started a family. After living in Syracuse, NY for several years, the family settled in Ithaca, NY where Harry lived until his death. Harry's work at Cornell University, as well as several small firms in Ithaca, and his community involvement provided opportunities for Harry to make many great friends in Ithaca. These friends and activities created much joy and satisfaction in his life. Harry spent his last 2 years at Oak Hill Manor, where his attitude was positive and easy going.

Harry leaves a legacy of impact on his surviving family, including his younger brother, his 8 children, his 16 grandchildren and many greatgrandchildren. Most of all, Harry was a dedicated husband, partner and friend to his wife, Mary Jean, through 62 years of marriage.

January 2020





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

REMEMBERING SAMUEL IWOBI

Samuel Iwobi

1939 - 2019

Samuel Iwobi, an ASHRAE Twin Tiers Chapter life member and past president (1985-1986) passed away peacefully on Tuesday, December 10, 2019. Samuel's obituary is copied below.

Samuel Iwobi, a longtime resident of Vestal, NY passed away on December 10 in Somerville, MA. at age 80. Sam was born in Onitsha, Nigeria as part of a large and loving family. In 1962 he came to the U.S. to attend the University of Notre Dame. After graduating with a degree in Mechanical Engineering and a knowledge of American football he worked in New York City until taking a position with GAF in Binghamton in 1972 where he worked until retiring in 1999. He and his wife of 48 years, Margaret, raised 2 sons, Ikay and Obi.

He is survived by Margaret, Ikay, his wife Anita, their daughter Ava, Obi, his wife Joelle, three brothers Chuka, Chudi and Ifeanyi, two sisters Elizabeth Madichie and Monica Udeze along with many nieces and nephews including Kene Udeze of Newark Valley. He was predeceased by his father Joseph, his mother Mary Magdelene and his sister Veronica Ozobia.

Sam was an active member of the community, serving on the boards of Catholic Social Services and Visions Federal Credit Union. He volunteered as a youth soccer coach, a tax preparer with AARP, a Medicare counselor with Action for Older Persons and with the Catholic Charities Food Pantry.

January 2020



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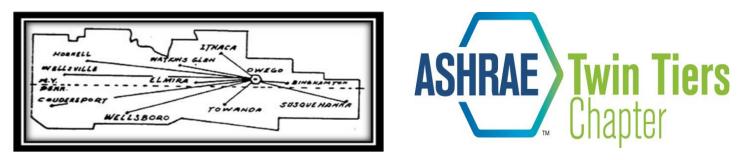
January Chapter Meeting Announcement

January 21, 2020

ASHRAE Twin Tier January Chapter Meeting

DATE:	Tuesday, January 21st, 2020
TIME:	5:00 PM
TOUR LOCATION:	Calice Advanced Manufacturing Center SUNY Broom Community College 907 Front Street Binghamton, NY 13905
SPEAKER:	Michael Martin, P.E. McFarland Johnson
DESCRIPTION:	This month's tour will be on the campus of SUNY Broome at the Calice Advanced Manufac- turing Center. This \$13+ million project was completed in 2018 and renovated the former Mechanical Building that was originally built in 1956. The building now features the latest technology, from green energy to an advanced manufacturing lab with clean room, and a high-tech soldering lab. It is also host to a new fermentation and food processing labs for use in the future food science course. This building had several funding sources, some of which were granted for the green energy systems the building utilizes. These systems in- clude a ground source heat pump system and roof top photovoltaic field.
MEETING: LOCATION:	McGirk's Irish Pub 1 Kattelville Rd. Binghamton, NY 13901
AGENDA:	5:00 – 6:00: Tour 6:00 – 6:15: Travel to McGirk's Irish Pub 6:15 – 8:00: Dinner & Presentation
REGISTRATION:	You may pre-register by phone, e-mail, or online at: <u>http://twintiers.ashraechapters.org/page-programs.html</u> \$30.00 Early Registration (By 1/17/2020) \$35.00 (After 1/17/2020)
CONTACT:	Devin Shapley (Please call, text, or email me at below with any questions or if you get lost) E: <u>Email Me!</u> C: (607) 584-6916

January 2020



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

Twin Tiers Chapter - December BOG Meeting Minutes



Board of Governors Meeting Date: December 17, 2019 Location: Ithaca Marriot

<u>Minutes</u>

- 1. Call to Order and Attendance: 4:10 pm
 - a. Attended: Kyle Nedlik, Victoria Kramer, Matt Lloyd, Mike McGinnis, Adam Keller, Jason Gilbert, Glenn Roberts, Rick Sanguinito
 - b. Call-in: None
- 2. Old Business:
 - a. Review of November Meeting
 - b. Vote to approve the November Meeting Minutes
 - i. Motion: Kyle
 - ii. Second: Devin
 - iii. Voted passed 5/5 (Glenn and Rick not present for vote)
 - c. ASHRAE Polos order/schedule status (Victoria Kramer)
 - i. 13 members earned polos by attending 5+ meetings last year
 - ii. Cost is \$28 per polo
 - iii. Will host an open sale as an RP fundraiser, cost will be \$35 per polo
- 3. Treasurer's Report (Matt Lloyd):
 - a. Account Balances (as of 12/17/2019)
 - i. All accounts are in good standing.
 - b. Status of Devin, Adam, and Matt Chapter credit cards
 - c. Any outstanding reimbursements?
 - i. Matt to coordinate with Devin on room reimbursement for December meeting DL. Due to inclement weather, the DL traveled one day early.
 - ii. Consider reimbursing with Albern fund
 - d. Confirm regional assessment was received and paid
 - i. All arrived in December

January 2020

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

Twin Tiers Chapter - December BOG Meeting Minutes

- 4. CTTC (Devin Shapley/Adam Keller):
 - a. Review the year's proposed calendar of events, any changes/updates?
 - i. December Meeting Reimbursement of ASHRAE DL Room
 - ii. January Devin had two places in mind. Has one been selected/planned yet?
 - i. January 21
 - ii. Considering tour of SUNY Broome Mechanical Building
 - iii. February Binghamton University Input requested from Jason on which building we should tour, accommodations.
 - i. Considering tour of Nursing School.
 - ii. Cannot host dinner at the building as it is still under construction.
 - a. Consider eating at Pharmacy School (Sodexo)
 - b. Consider combining dinner with YEA event (non-BU building))
 - iv. March Southern Tier Custom Fab contact made yet?
 - i. Consider chartering BU bus if we want to bring students
 - v. May SUNY Broome Culinary School in Carnegie Library
 - i. May be able to have dinner catered by students
 - b. Upload speaker evaluation forms, DL paperwork to Chapter Programs within 15 days of mtg (PAOE)
 - c. Please continue to load documents to Basecamp
- 5. YEA (Dana Schmidt):
 - a. Event Tonight Location TBA (Ale House, Watershed, or Bar Argos)
 - i. Ale House
 - b. February Event
 - i. Possibly combine with chapter meeting and dinner, Dana and Devin to coordinate
 - ii. Dana to contact Binghamton Brewing
- 6. Membership Promotion (Chris Wolak):
 - a. Membership Promotion month is January special meeting promo?
- 7. GGAC (Adam Keller):
 - a. Day on the Hill (Albany) June 2020
 - b. Will be looking for volunteers

January 2020

HORAELL WATKING GLAN WELLSWILLS A.Y. ELATIRA COUGASPORT WELLSBORD WELLSBORD	ASHRAE Twin Tiers Chapter
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American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

Twin Tiers Chapter - December BOG Meeting Minutes

- 8. Student Activities (Jason Gilbert):
 - a. Student chapter trip to ASHRAE Winter conference still need sponsorships
 - i. Students have raised \$2,400
 - ii. Budget for 4 attendees is \$3,244.22
 - iii. One student is no longer able to attend
 - b. Vote on amount for Chapter to donate to student chapter trip to ASHRAE Winter conference
 - c. Vote: Chapter to make up difference in student fundraising and budget, up to \$500.
 - i. Motion: Kyle
 - ii. Second: Mike
 - iii. Voted passed: 7/7
 - iv. Funding to come from Student Activities budget
 - d. In the future, the student chapter should provide the BOG will a request for donation, including budget breakdown.
- 9. Research Promotion (Glenn Roberts / Mike McGinnis):
 - a. 30% of goal by December 31st for PAOE points \$1,450 vote for approval
 - b. Vote: Donate \$1,450 from chapter account to RP
 - i. Motion: Kyle
 - ii. Second: Devin
 - iii. Vote passed: 7/7
 - iv. Matt to donate online at ASHRAE RP website by Friday, 12/20
 - v. Income from the following fundraisers to reimburse the chapter for this 30% donation: Golf, business cards, Super Bowl pool, putting contest
 - c. Business cards: After the New Year, Matt to collect charges and send to Glenn
 - d. NCAA Pool: Glenn to set up online through CBS
 - e. Super Bowl Pool
- 10. History (Rick Sanguinito)
 - a. History board for tonight's meeting
- 11. Special Events
 - a. Symposium reservations confirmed?
 - i. Goal is to have DL and speakers confirmed by March BOG meeting

January 2020



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

Twin Tiers Chapter - December BOG Meeting Minutes

- 12. PAOE (Kyle Nedlik): See below (as of 12/15/2019)
 - a. CRC points still not uploaded by the region yet
 - b. Reminder to chairs that they can update PAOE points.
 - c. Please review any points that are to be assigned by the region and reach out to the responsible person as required.

CATEGORY	PAR	MIN	PTS
Chapter Operations*	1200	600	580
Chapter Technology Transfer*	1050	550	<mark>700</mark>
Electronic Communications	500	250	530
Governmental Affairs*	650	500	200
Historical	300	100	<mark>930</mark>
Membership Promotion*	800	500	<mark>570</mark>
Student Activities*	500	300	220
<u>RP*</u>	1050	800	450
YEA	800	300	<mark>750</mark>
Total	3/6 and 5/9	5/9	1/9

Pts – Have NOT Achieved Min Pts – Have Achieved Min, but not PAR Pts – Have Achieve PAR

<u>PAOE</u>: Minimum in 5 of the following 6 categories: Chapter Operations, Chapter Technology Transfer, Governmental Affairs, Membership Promotion, RP and Student Activities - Incomplete

Special Citation: Minimum in 5 of the 6 categories, with a minimum of 5,500 points - Incomplete

STAR: PAR in all categories - Incomplete

Honor Roll: PAOE for at least four consecutive years - Incomplete

High Honor Roll: STAR for at least four consecutive years - Incomplete

<u>Premier</u>: PAOE every year since the chapter's inception or since 1970; minimum of four years; chapter's first year is excluded - **Incomplete**

13. New Business

a. Any past presidents attending that we should recognize?

14. Open Floor

- a. Scholarships February deadline will approach soon
- 15. Meeting was adjourned at 5:06 PM; Motion: Kyle; Second: Mike



INCORPORATED

Your Responsible Partner

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Fax: (607) 734-0433

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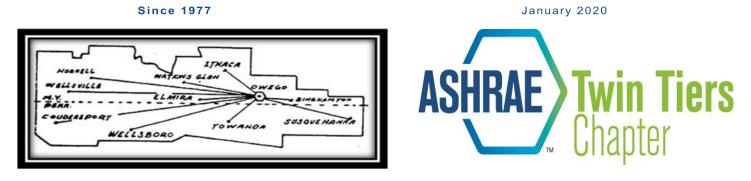
artem

Mark Bowler Gannon Dubay Patrick Leach 607-368-6067 585-435-0250 585-486-2145

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

Binghamton University ASHRAE Student Chapter

Dear Binghamton ASHRAE Sponsor,

The annual ASHRAE winter conference is the world's largest gathering of HVAC&R professionals to share academic and professional initiatives. Several events of interest include various student tours, multiple workshops and seminars, and an opening session featuring ASHRAE President Darryl K. Boyce and a keynote speech from Ed Hochuli. Attending this conference is a valuable opportunity for students to network with professional engineers in the field, as well as learn more about the HVAC&R industry through local plant tours, workshops, and seminars. This year, the conference is being held at the Orange County Convention Center in Orlando, Florida and the Binghamton Student Branch of ASHRAE is seeking funding to help curtail expenses so active students will be able to reap the benefits of attending. Three members of ASHRAE's executive board are hoping to attend this year's conference: Jalaal Shah-Taylor (President), Amanda Pelkey (Vice President), and Sean Bennett (Treasurer). Expenses for this trip would include roundtrip airfare from Syracuse to Florida, four nights at a hotel in the vicinity of the conference, registration fees, airport parking, t-shirts, and miscellaneous travel expenses. Such costs

Winter Conference, Expected Stay - 5 Days				
Expenditures	Per Person	Total		
Flight	\$151.00	\$604.00		
Hotel	\$94.00	\$752.00		
Shirts	\$84.56	\$338.22		
Tickets	\$30.00	\$120.00		
Meals	\$66.00	\$330.00		
Parking	\$25.00	\$100.00		
Transportation	\$25.00	\$100.00		
Tours	\$225.00	\$900.00		
TOTAL	\$811.06	\$3,244.22		

Because Binghamton ASHRAE is not yet chartered by Binghamton University's Student Association, it is difficult to obtain funding for this conference -- much of our funding requires the generosity of companies such as yours. Any amount of donation would be incredibly helpful, and the top five sponsors would earn advertising rights on our group's t-shirts. Each additional donation would allow for a proportional increase in advertising space. With these t-shirts, Binghamton ASHRAE would proudly display our sponsors as a thank you for your generosity, as well as showcase our pride and enthusiasm for being a chartered student branch.

January 2020

HORAELL WATCH'S GLAN WELLSVILLA ALY COUDEASPORY WELLSBORD WELLSBORD	ASHRAE Twin Tiers Chapter
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American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

Binghamton University ASHRAE Student Chapter

Donations can be made through http://twintiers.ashraechapters.org/page-student-thankyou.html . Here you will find PayPal buttons to make payments online. Checks would also be accepted, and can be mailed to the following address:

Jason A. Gilbert, P.E. Student Branch Advisor P.F. at Binghamton University 4400 Vestal Parkway East (PO Box 6000) Binghamton, NY 13902-6000

As an official student branch, Binghamton ASHRAE is able to provide various opportunities for aspiring HVAC&R engineers to network and expand their knowledge of this field, and attending conference would be a valuable experience for our

members. Thank you for your consideration.

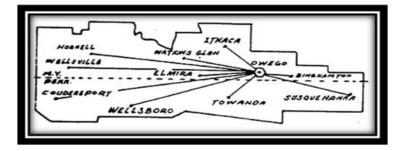
Sincerely, Binghamton ASHRAE Executive Board Binghamton University buashrae@gmail.com



From left to right: Sean Bennett (Treasurer), Jalaal Shah-Taylor (President), Amanda Pelkey (Vice-President)

January 2020

ASHRAE Twin Tiers Chapter



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

What Were They Thinking???

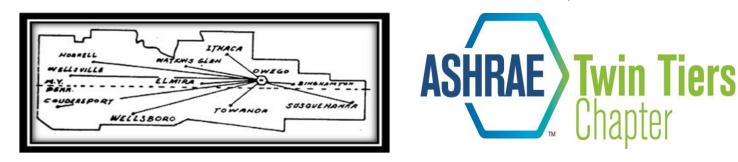


At least their vehicles are energy efficient!

Do you have a funny, "unique", or just plain horrible installation picture? Please send them to the Editor at <u>anice@meiersupply.com</u>

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

January 2020



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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 <u>foundational materials</u> (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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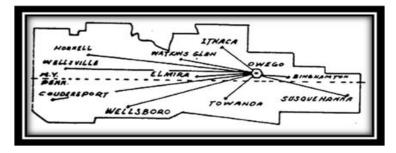
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INDUSTRY ARTICLE

Governor Cuomo Announces Additional \$2 Billion in Utility Energy Efficiency and Building Electrification Initiatives to Combat Climate Change

www.governor.ny.gov By Press Office of NYS Governor January 16, 2020

Governor Andrew M. Cuomo today announced that the New York State Board for Historic Preservation has recommended adding 14 properties, resources and districts to the State and National Registers of Historic Places. The nominations reflect the striking diversity of New York State's history.

Governor Andrew M. Cuomo today announced an additional \$2 billion in energy efficiency and building electrification initiatives to combat climate change. The New York State Public Service Commission has approved an ambitious set of energy efficiency and electric heat pump targets to dramatically reduce energy consumption in New York. The new targets for investor-owned utilities will bring nearly \$2 billion in marketenabling investments to help transform the way New York residents and businesses heat and cool their homes and offices and move towards cleaner and healthier buildings and communities throughout the state. Together with the New York State Energy Research and Development Authority, the New York Power Authority, the Long Island Power Authority and a previous PSC order on efficiency, New York State is now investing over \$6.8 billion in energy efficiency and clean heat investments from 2020 through



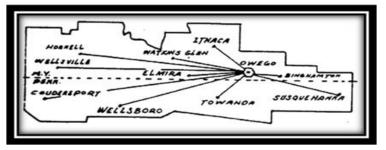
2025. This historic investment supports New York's Green New Deal strategy and nation-leading mandate to reduce greenhouse gas emissions throughout the state by 85 percent by 2050 and achieve economy-wide carbon neutrality.

"Climate change is a real and growing threat to New York's environment and economy and to the health of our people, and we're already experiencing the negative impacts in the form of increased weather related emergencies," **Governor Cuomo said**. "This historic investment shows we are aggressively pursuing clean energy alternatives to reduce our reliance on fossil fuels, growing jobs in clean energy industries and protecting our environment for current and future generations."



With this additional commitment, New York State is now investing more than \$6.8 billion through 2025 to deploy clean heat and energy efficiency technologies in buildings to reduce emissions and combat climate change. Under NYSERDA's Clean Energy Fund, \$1.2 billion will be devoted to energy efficiency measures and heat pumps. Additionally, by 2025, NYPA will spend \$1.5 billion in energy efficiency initiatives for their state-wide municipal and state agency customers. On Long Island, LIPA will devote \$500 million for their residential and business customers. This Commission order will direct nearly \$2 billion in additional utility energy efficiency and electrification actions: \$893 million for electric energy efficiency; \$553 million for gas energy efficiency; and \$454 million for heat pumps through 2025. Additionally, the Commission re-authorized funding to support existing levels of utility energy efficiency activities through 2025 totaling \$1.3 billion, meaning that today's decision will result in a new total of over \$3 billion in investor-owned utility investments for energy efficiency and building electrification through 2025, helping New Yorkers across the state to advance cleaner buildings and healthier communities.

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

INDUSTRY ARTICLE

Governor Cuomo Announces Additional \$2 Billion in Utility Energy Efficiency and Building Electrification Initiatives to Combat Climate Change (Cont.)

The order is also expected to boost the number of energy efficiency jobs across the state as the largest segment of New York's clean energy economy.

In 2018, over 123,000 New Yorkers were employed in the energy efficiency sector. With this new investment, job growth and economic opportunity in energy efficiency is expected to further accelerate over the next five years, making New York State a leading market for sustainable building technology.

The new energy efficiency and electrification programs authorized today will also contribute substantially toward meeting New York's clean energy goals. Today's targets, combined with other State initiatives, will result in a three percent reduction in annual electric usage and a 1.3 percent reduction in annual gas usage by 2025. This utility investment is a cornerstone of New York's energy efficiency strategy and will result in substantial progress toward New York's energy savings goal.



Energy efficiency improvements and innovative heating systems like heat pumps reduce energy use and save consumers money on their total energy bills. When integrated into New York's energy systems and infrastructure, energy efficiency provides long-term benefits by lowering baseload and peak demand and reducing the need for additional energy generation - including fossil fuels -- and transmission lines, lowering the overall cost of the system benefiting consumers.

To improve access, scale and services to the most vulnerable New Yorkers, \$289 million in additional funding will be dedicated for Low-Moderate Income energy efficiency programs. In addition to this increase, the Commission has also directed NYSERDA to commit an additional \$30 million for LMIrelated heat pump initiatives. This incremental funding is additive to existing LMI energy efficiency efforts and the nearly \$250 million annually provided through utility bill credits through the statewide Affordability Program which is targeted at limiting the energy burden to no more than six percent of a household's income. This dedicated funding and investments provides the most vulnerable New Yorkers not only with access to energy efficiency and home heating clean technologies, but new opportunities to participate in the clean energy transition and manage their energy bills.

Additionally, New York's electric utilities and NYSERDA are directed to jointly develop a consistent statewide heat pump program framework to be administered by the utilities in their service territories and combined with LIPA sets a minimum target of 4.6 TBtu for savings from heat pump installations across the state.

The Commission's decision demonstrates the necessity of a comprehensive approach to scaling energy efficiency and building electrification through the collaborative efforts of the investor-owned utilities, NYSERDA, NYPA and LIPA.

NYSERDA

NYSERDA will be seeking to invest approximately \$200 million in market development programs that will leverage the utility incentive programs to create a statewide Clean Heating and Cooling market framework that will lay the foundation upon

which New York will formulate its building electrification strategy and a Net Zero Carbon Buildings future. NYSERDA's investments in energy efficiency and heat pumps by 2025 will total \$1.2 billion.

NYSERDA's market develop support will build upon New York's existing clean heating and cooling programs and will include new initiatives it expects to launch this year to improve

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consumer awareness, increase the number of skilled workers and businesses in the clean heating and cooling industry, provide technical assistance to residents and businesses and provide clean heating and cooling solutions that will benefit Low-and Moderate Income consumers.

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SUSQUENANKA

Governor Cuomo Announces Additional \$2 Billion in Utility Energy Efficiency and Building Electrification Initiatives to Combat Climate Change (Cont.)

NYPA

The New York Power Authority's energy efficiency program continues to grow to support New York State's energy goals. NYPA has plans to finance and implement more than \$1.5 billion in energy efficiency measures throughout New York State up through 2025 at state, local and municipal government facilities, continuing to develop its program to \$300 million annually. The energy efficiency measures include heat pumps, new high efficiency boiler replacements, updated controls, HVAC upgrades that will reduce natural gas consumption and related clean energy solutions.

In addition, NYPA is providing free heat pump screening assessments for NYPA customers and undertaking demonstration projects for electric heat pump solutions with its customers. NYPA is also leading by example in collaboration with SUNY to drive toward higher efficiency buildings and achieve SUNY's greenhouse gas emission reduction goals, and working hand-in-hand with the New York City Housing Authority to upgrade old heating systems through turnkey services and financing.

LIPA

Over the next five years, LIPA is investing over \$500 million in energy efficiency and beneficial electrification initiatives for its 1.1 million customers.

Public Service Commission Chair John B. Rhodes said, "Energy efficiency is a go-to resource - the resource you don't use is usually the cheapest - and we need to aggressively pursue this solution. Governor Cuomo's commitment to protecting and enhancing our environment has been steadfast. Today's action to advancing energy efficiency and the installation of heat pumps will reduce costs, reduce energy and reduce carbon."

Alicia Barton, President and CEO, NYSERDA, said, "Today's commitment to dramatically reduce energy consumption and scale up energy efficiency initiatives at an unprecedented pace is more evidence of Governor Cuomo's unmatched climate leadership and reinforces his commitment to making affordable clean energy solutions available to as many New Yorkers as possible. The NYSERDA initiatives being announced today will help dramatically accelerate our progress in scaling up new, cleaner alternatives for residents and businesses to heat and cool their homes and facilities, and will help ensure energy affordability for Low-and-Moderate Income customers who want healthy, efficient solutions for their homes."

NYPA President and CEO Gil C. Quiniones said, "NYPA is investing hundreds of millions of dollars annually to support our government customers' transition to cleaner and more energy efficient technology. Increasing energy efficiency throughout New York State is critical to achieving a clean energy economy and lowering the state's carbon footprint."

LIPA CEO Tom Falcone said, "Governor Cuomo's commitment to energy efficiency is good for both the environment and our customers' wallets. LIPA has invested over \$1.4 billion in energy efficiency and clean energy and is committed to an additional \$500 million over the next five years to help our customers save money and the environment."

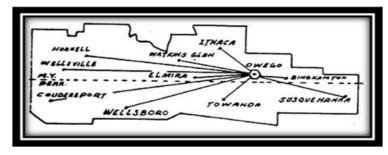




January 2020

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INDUSTRY ARTICLE

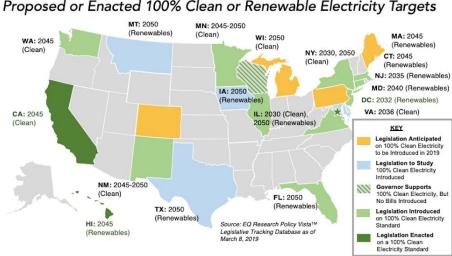
Governor Cuomo Announces Additional \$2 Billion in Utility Energy Efficiency and Building Electrification Initiatives to Combat Climate Change (Cont.)

New York State's Green New Deal

Governor Andrew M. Cuomo's Green New Deal is the most ambitious climate change program in the nation and puts the State on a path to being entirely carbon-neutral across all sectors of the economy, including power generation, transportation, buildings, industry and agriculture. The Governor's program also establishes a goal to achieve a zero-carbon emissions electricity sector by 2040, faster than any state in the nation. The 2019 Climate Leadership and Community Protection Act mandates several of the Governor's ambitious Green New Deal clean energy targets: installing six gigawatts of distributed solar by 2025, three gigawatts of energy storage by 2030, and at least nine gigawatts of offshore wind by 2035. The CLCPA also calls for an orderly and just transition to clean energy, creating jobs while spurring a green economy. It builds on New York's unprecedented ramp-up of clean energy including a \$2.9 billion investment in 46 large-scale renewable projects across the state, the creation of more than 150,000 jobs in New York's clean energy sector and 1,700% growth in the distributed solar sector since 2012. The CLCPA also directs New York State's



agencies and authorities to work collaboratively with stakeholders to develop a plan to reduce greenhouse gas emissions by 85% from 1990 levels by 2050, and to work toward a goal for disadvantage communities to receive 40% of the overall benefits of spending on clean energy and energy efficiency programs, projects or investments.



State Green New Deals Proposed or Enacted 100% Clean or Renewable Electricity Targets

Reforming the Energy Vision

The CLCPA builds on Governor Cuomo's landmark Reforming the Energy Vision strategy to lead on climate change and grow New York's economy. REV is building a cleaner, more resilient and affordable energy system for all New Yorkers by stimulating investment in clean technologies like solar, wind, and energy efficiency. Already, REV has driven growth of nearly 1,700 percent in the statewide solar market, leveraged nearly \$3.4 billion in private investments, improved energy affordability for 1.65 million low-income customers, and led to more than 150,000 jobs in manufacturing, engineering, and other clean tech sectors across New York State.

"Governor Cuomo Announces Additional \$2 Billion in Utility Energy Efficiency and Building Electrification Initiatives to Combat Climate Change" *New York State Governor Andrew M. Cuomo*. Press Office of the New York State Governor, 16 Jan. 2020. Web. 20 Jan. 2020. https://www.governor.ny.gov/news/governor-cuomo-announces-additional-2-billion-utility-energy-efficiency-and-building>.

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Comments? Suggestions?

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

We welcome your feedback!



ASHRAE Mission Statement

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

Ethics Requirement for PE

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

ASHRAE Vision Statement

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

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

ASHRAE will be the primary provider of opportunity for professional growth, recognizing and adapting to changing demographics, and embracing diversity. Advancing HVAC&R to serve humanity and promote a sustainable world"

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